
TRAITÉ DE COOPÉRATION EN MATIÈRE DE BREVETS (PCT)

**INSTRUCTIONS ADMINISTRATIVES
DU TRAITÉ DE COOPÉRATION EN MATIÈRE DE BREVETS (PCT) :**

**ANNEXE F, APPENDICE I
DTDS EN XML POUR LA NORME E-PCT**

en vigueur à compter du 1^{er} avril 2019

1. Le présent document contient le texte de l'appendice I de l'annexe F des Instructions administratives du Traité de coopération en matière de brevets (PCT) tel qu'il est en vigueur à compter du 1^{er} avril 2019. Il a été établi conformément à l'article 58.4) et à la règle 89.2.a) et modifié conformément à la règle 89.2.b) et selon la procédure de modification prévue à la section 2.5 de l'annexe F.
2. Le texte des Instructions administratives en vigueur à compter du 1^{er} janvier 2019 se trouve, mis à part ses annexes A et F (disponibles séparément), dans le document PCT/AI/17CORR daté du 19 décembre 2017. Le texte de l'annexe F des Instructions administratives en vigueur à compter du 1^{er} juillet 2010 se trouve, mis à part son appendice I, dans le document PCT/AI/ANF/5 daté du 17 février 2010. Le présent document doit être lu avec ces textes, sous réserve de tout ajout ou modification dont ils pourraient faire l'objet.
3. Le présent document est publié sur le site Internet de l'OMPI à l'adresse suivante : www.wipo.int/pct/fr/texts/index.htm; des exemplaires imprimés peuvent être obtenus auprès du Bureau international de l'OMPI sur simple demande.

ANNEXE F
NORME CONCERNANT LE DÉPÔT ET LE TRAITEMENT ÉLECTRONIQUES
DES DEMANDES INTERNATIONALES

APPENDICE I
DTDS EN XML POUR LA NORME E-PCT

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1. INTRODUCTION

Le présent document présente les DTDs en XML utilisées pour l'échange électronique de documents relatifs aux demandes internationales, tel qu'il est défini dans l'annexe F. Il contient également des précisions sur la méthode adoptée pour l'élaboration de ces DTDs.¹

2. DTDS POUR LES DOCUMENTS XML

2.1 *Stratégie pour le développement des DTDs*

La présente spécification verra par la suite son champ d'application élargi aux échanges formels ultérieurs entre les parties prenantes. On trouvera ci-dessous la liste de quelques DTDs nécessaires pour la phase initiale de la présentation électronique d'une demande électronique et pour quelques communications dans le secteur de communication entre offices. D'autres DTDs seront nécessaires pour les phases ultérieures du traitement de la demande électronique PCT (E-PCT).

Bien que la présente spécification ait pour objet immédiat la prise en charge des demandes électroniques PCT, les offices nationaux envisagent de l'appliquer à leurs propres demandes électroniques nationales pour différentes catégories de titres de propriété intellectuelle et préconisent qu'elle serve de base à une éventuelle norme de l'OMPI applicable par d'autres offices.

Dans cette perspective, les DTDs élaborées pour les demandes électroniques PCT seront construites à partir des composants servant à la définition d'éléments et à partir desquelles les offices pourront, de manière cohérente et compatible, déduire des éléments et des DTDs répondant à leurs besoins. Les DTDs qui se révéleront nécessaires par la suite seront aussi fondées sur les composants de l'architecture des DTDs. La fonction domaines nominaux du XML (XMLNS) sera utilisée pour accepter la distinction entre les noms des sous-composants de cette spécification et ceux fournis par d'autres offices.

Afin de faciliter la bonne compréhension des DTDs et de l'architecture fondée sur les composants, une documentation fondée sur le HTML a été établie à partir des éléments et des structures figurant dans les sources des DTDs proposées, qui illustrera leurs rapports. Cette documentation HTML est disponible sur le site Internet du dépôt électronique PCT.

2.2 *DTDs à venir*

- a) communications postérieures au dépôt de la demande, communications de procédure et communications formelles de divers types
- b) envoi d'un office récepteur au Bureau international
- c) envoi d'un office récepteur à une administration chargée de la recherche internationale
- d) envoi du Bureau international à une administration chargée de la recherche internationale

¹ Les termes et expressions utilisés dans le présent appendice ont la même signification que ceux qui sont utilisés dans la partie principale de l'annexe F; voir le glossaire et la liste des abréviations à la fin de cette partie.

- e) envoi du Bureau international à une administration chargée de l'examen préliminaire international
- f) envoi d'une administration chargée de la recherche internationale au Bureau international
- g) envoi d'une administration chargée de l'examen préliminaire international au Bureau international
- h) envoi du Bureau international à un office récepteur
- i) DTDs requises pour d'autres catégories de titres de propriété intellectuelle

2.3 Composants réutilisables

Compte tenu de leur nombre, les DTDs pour l'échange de documents de propriété industrielle seront construites à l'aide de certains composants standard réutilisables combinés avec des composants spécifiques à la transaction.

Ces composants sont considérés comme des schémas XML (une recommandation W3C) ; chaque définition d'élément est un composant réutilisable et un schéma valide en lui-même ; des éléments de base comprennent les composants de l'élément secondaire nécessaires pour compléter leurs définitions, transformant ainsi chaque composant en un maître-élément ou document-type. Ces composants sont ensuite assemblés au sein d'un fichier de schéma XML complet, qui est alors traduit en syntaxe de DTD.

Ces définitions d'éléments seront conservées dans un répertoire disponible par Internet afin de permettre aux offices de créer rapidement des DTDs pour leurs besoins spécifiques ; dans la mesure où de nombreux composants communs ont déjà été définis, des types de documents nouveaux peuvent être créés en quelques minutes en incluant les définitions d'éléments pré-définis, qui seront identiques dans l'ensemble des DTDs.

Les schémas XML complets seront également disponibles par la voie du répertoire du schéma ePCT à utiliser pour le développement du logiciel, pour la validation des documents etc. Une demande de document XML créée à l'aide d'un schéma XML devra être conforme aux DTDs, et pourra être validée par les DTDs aussi.

Des détails sur le répertoire du schéma ePCT seront publiés lors des révisions à venir de ce document, une fois testé et mis en oeuvre.

2.4 Feuilles de style de type XSL

Les feuilles de style standard XSL sont en cours de développement pour :

- a) la conversion de données XML en données HTML aux fins de la présentation et de l'impression des données PCT par le logiciel de navigation sur le Internet, et
- b) la conversion de données XML aux fins de mettre en oeuvre la méthode de calcul des taxes fondée sur le nombre de feuilles qu'aurait eue la demande internationale si elle avait été déposée sous forme papier, et aux fins de permettre l'impression des données PCT.

Ces feuilles de style seront hébergées dans le répertoire ePCT schéma avec les définitions des éléments PCT, et elles seront publiées dans les versions à venir de ce document.

2.5 Versions des DTDs

Le nom du fichier d'une DTD indique sa version. Le nom du fichier avec un numéro de version est une chaîne de caractères issue de la concaténation du nom du type du document suivie d'un tiret lui-même suivi de la lettre 'v', d'un chiffre indiquant le numéro de la version principale, et d'une section optionnelle sous la forme d'un autre tiret et d'un chiffre indiquant le numéro d'une révision mineure.

- Exemple: request-v1-2.dtd

2.6 Texte introductif des documents en XML

Les documents en format XML commencent par un texte introductif. Ce texte consiste en une instruction concernant le traitement en XML qui précise les versions du langage XML et du codage employées. Y figure également une déclaration sur le type de document connue sous le nom de déclaration "DOCTYPE". La déclaration sur le type de document peut éventuellement comprendre un identifiant public (introduit par le mot-clé 'PUBLIC') et doit obligatoirement comprendre un identifiant du système (introduit par le mot-clé 'SYSTEM', à moins qu'un mot-clé PUBLIC a été utilisé), qui indique un identifiant uniforme d'origine (URI, pour Uniform Resource Identifier) faisant référence à la DTD relative au document en question. Les identifiants publics peuvent se situer dans les observations au début de chaque fichier de DTD.

- Exemple d'un texte introductif avec un identifiant public:

```
<?xml version="1.0" encoding="UTF-8"?>  
<!DOCTYPE request PUBLIC "-//WIPO//DTD REQUEST 1.1//EN" "request-v1-1.dtd">
```

- Exemple d'un texte introductif avec un identifiant de système:

```
<?xml version="1.0" encoding="UTF-8"?>  
<!DOCTYPE request SYSTEM "request-v1-1.dtd">
```

3. DTDS POUR DE NOUVELLES DEMANDES PCT PRÉSENTÉES SOUS FORME ÉLECTRONIQUE

Les DTDs listées ci-après sont les dernières versions publiées. Elles sont publiées dans un répertoire Internet public à l'adresse suivante :
http://www.wipo.int/pct-safe/en/resources/xml_dtd.html.

3.1 Paquet de données

```
<?xml version='1.0' encoding='UTF-8' ?>  
  
<!ENTITY % name_group "((name | (prefix? , (last-name | orgname) , first-name? ,  
middle-name? , suffix? , iid? , role? , orgname? , department? , synonym*)) ,  
registered-number?)">  
  
<!ENTITY % address_group "((address-1? , address-2? , address-3? , address-4? ,  
address-5? , mailcode? , pobox? , room? , address-floor? , building? , street? ,  
city? , county? , state? , postcode? , country) | text)">  
  
<!--  
*****  
* package-data v1.7 2017 JULY *  
*****  
* PUBLIC "-//WIPO//DTD PACKAGE DATA 1.7//EN" "package-data-v1-7.dtd" *  
*****  
* https://www.wipo.int/pct-safe/en/resources/1.15/package-data-v1-7.dtd *  
*****
```

```

*****
* contacts:
*
*   WIPO: Yuya USHIDA; yuya.ushida@wipo.int
*
*****
* revision history
*****
Asahi HASEBE : 01/07/17 incorporated changes from PFC
..changed version number from v1.6 to v1.7
..added an element "written-opinion" to : "package-data"
..changed an attribute "ref-number" of copy-general-power-of-attorney optional
MO: 01/07/09 incorporated changes from PFC
..changed version number from v1.5 to v1.6
..added attribute 'electronic-format-type' to sequence-list (PFC09/001)
..added attribute 'part-of-application' to sequence-list (PFC09/001)
MO: 01/07/08 incorporated changes from PFCs:
..changed version number from v1.4 to v1.5
..added element 'xmit-receipt-doc' to package-data (PFC08/004)
..added element 'ro-request-receiving-info-doc' to package-data (PFC08/004)
..added element 'pre-conversion-files-package' to package-data (PFC08/004)
MO: 01/01/07 incorporated changes from PFCs:
..changed version number from v1.3 to v1.4
..implementation of PFC06/001
..added element 'sup' to u (PFC06/003)
..added element 'sup' to i (PFC06/003)
..added element 'sup' to b (PFC06/003)
..added element 'sub' to u (PFC06/003)
..added element 'sub' to i (PFC06/003)
..added element 'sub' to b (PFC06/003)
..added element 'o' to invention-title, b, i, sup, sup2, sub, sub2, heading, claim-
text,
  p, small-caps, dt, dd, li, crossref, figref, othercit, statement (PFC06/003)
..added element 'restore-rights-reason' to package-data (PFC06/004)
..added element 'address-4' to address (PFC06/005)
..added element 'address-5' to address (PFC06/005)
..added attribute 'subset' to protection-request (PFC06/005)
HT: 14/12/04 incorporated changes from PFCs:
..added attribute 'id' to application-reference, publication-reference
..added attribute 'seq-file-type' to sequence-list
HT: 20/07/04 incorporated changes from PFCs:
..changed version number from v1.2 to v1.3
..added element 'address' to first-named-applicant
..added value 'national-office', 'regional-office' to attribute produced-by of root
element
HT: 16/12/03 Incorporated changes from PFCs:
..changed version number from v1.1 to v1.2
..added element 'sup2' and 'sub2' to sup and sub
..added attribute 'external-type' to table-external
JD: 03/02/03 incorporated changes from PFCs:
..changed version number from v1.0 to v1.1
..added element 'notice-info', 'request-for-dispatch-info' to office-to-applicant
content model
..added element 'table-external' to root content model
..added element 'other-filing' to transmittal-info content model
..added (last-name | orgname) to %name_group;
..made postcode optional within address
..removed br from b, i, smallcaps
2001/12/01
..released version number as v1.0
*****

Root Element 'package-data'

Attributes:
  lang           = language of application - use ISO639 language code
  dtd-version    = dtd version number
  file           = filename of the whole application
  status         = status of the application; values: new = new application
  produced-by    = creator of this document
  date-produced = YYYYMMDD e.g, 20011230 if desired, 12 characters maximum
  country        = st.3 code

```



```

<!ELEMENT ro-request-receiving-info-doc EMPTY>

<!ATTLIST ro-request-receiving-info-doc id ID #IMPLIED
      file CDATA #REQUIRED
      lang CDATA #IMPLIED
      status CDATA #IMPLIED
      carriers (internal-electronic |
              external-electronic |
              paper ) #IMPLIED >

<!--
-->
<!ELEMENT xmit-receipt-doc EMPTY>

<!ATTLIST xmit-receipt-doc id ID #IMPLIED
      file CDATA #REQUIRED
      lang CDATA #IMPLIED
      status CDATA #IMPLIED
      carriers (internal-electronic |
              external-electronic |
              paper ) #IMPLIED >

<!--
-->
<!ELEMENT restore-rights-reason EMPTY>

<!ATTLIST restore-rights-reason id ID #IMPLIED
      file CDATA #REQUIRED
      lang CDATA #IMPLIED
      carriers (internal-electronic |
              external-electronic |
              paper ) #IMPLIED
      status CDATA #IMPLIED >

<!--
  Wrapped document referenced; e.g.record copy, certified priority document.
-->
<!ELEMENT wrapped-document EMPTY>

<!ATTLIST wrapped-document id ID #IMPLIED
      file CDATA #REQUIRED
      lang CDATA #IMPLIED
      package-type (wad | wasp | sep ) #REQUIRED
      status CDATA #IMPLIED >

<!--
  Correspondence from applicant
  it is possible to use corr(espionage)-type attribute for correspondence title
-->
<!ELEMENT correspondence EMPTY>

<!ATTLIST correspondence id ID #IMPLIED
      file CDATA #REQUIRED
      lang CDATA #IMPLIED
      carriers (internal-electronic |
              external-electronic |
              paper ) #IMPLIED
      status CDATA #IMPLIED
      corr-type CDATA #REQUIRED >

<!--
SEQUENCE LISTING
According to WIPO ST.25: STANDARD FOR THE PRESENTATION OF NUCLEOTIDE AND
AMINO ACID SEQUENCE LISTINGS IN PATENT APPLICATIONS:
see http://www.wipo.int/scit/en/index.html
"The sequence listing as defined in paragraph 2(i) shall, where it is filed

```


together with the application, be placed at the end of the description part of the application. This part shall be entitled Sequence Listing, begin on a new page and preferably have independent page numbering. The sequence listing forms an integral part of the description; it is therefore unnecessary, subject to paragraph 36, to describe the sequences elsewhere in the description." Therefore we create here a separate sub-document for sequence listings, it should follow any drawings or the claims. It should follow the format of Annex C/ST.25 and be an external file

```
-->
<!ELEMENT sequence-list EMPTY>

<!ATTLIST sequence-list id ID #IMPLIED
    file CDATA #REQUIRED
    lang CDATA #IMPLIED
    carriers (internal-electronic |
        external-electronic |
        paper ) #IMPLIED
    seq-file-type CDATA #FIXED 'ST.25'
    electronic-format-type (text | other ) #IMPLIED
    status CDATA #IMPLIED
    part-of-application (yes | no ) #IMPLIED >

<!--
    Published application, e.g. PCT Art.20 communication
-->
<!ELEMENT published-application EMPTY>

<!ATTLIST published-application id ID #IMPLIED
    file CDATA #REQUIRED
    lang CDATA #IMPLIED
    carriers (internal-electronic |
        external-electronic |
        paper ) #IMPLIED
    status CDATA #IMPLIED >

<!--
    English translation of International Preliminary Examination Report
-->
<!ELEMENT trans-preliminary-examination-report EMPTY>

<!ATTLIST trans-preliminary-examination-report id ID #IMPLIED
    file CDATA #REQUIRED
    lang CDATA #IMPLIED
    carriers (internal-
electronic |
        external-electronic |
        paper ) #IMPLIED
    status CDATA #IMPLIED >

<!--
    International Preliminary Examination Report (IPER) (Article 35)
-->
<!ELEMENT preliminary-examination-report EMPTY>

<!ATTLIST preliminary-examination-report id ID #IMPLIED
    file CDATA #REQUIRED
    lang CDATA #IMPLIED
    carriers (internal-electronic |
        external-electronic |
        paper ) #IMPLIED
    status CDATA #IMPLIED >

<!--
    English translation of search report
-->
```

```
<!ELEMENT trans-search-report EMPTY>

<!ATTLIST trans-search-report id ID #IMPLIED
                                file CDATA #REQUIRED
                                lang CDATA #IMPLIED
                                carriers (internal-electronic |
                                           external-electronic |
                                           paper ) #IMPLIED
                                status CDATA #IMPLIED >

<!--
  Search report
-->
<!ELEMENT search-report-doc EMPTY>

<!ATTLIST search-report-doc id ID #IMPLIED
                              file CDATA #REQUIRED
                              lang CDATA #IMPLIED
                              carriers (internal-electronic |
                                         external-electronic |
                                         paper ) #IMPLIED
                              status CDATA #IMPLIED >

<!--
  Translation of international application
-->
<!ELEMENT translation-of-application EMPTY>

<!ATTLIST translation-of-application id ID #IMPLIED
                                       file CDATA #REQUIRED
                                       lang CDATA #IMPLIED
                                       carriers (internal-electronic |
                                                  external-electronic |
                                                  paper ) #IMPLIED
                                       status CDATA #IMPLIED >

<!--
  A copy of the earlier application for which priority is being claimed (Rule 17)
-->
<!ELEMENT priority-document EMPTY>

<!ATTLIST priority-document id ID #IMPLIED
                             file CDATA #REQUIRED
                             lang CDATA #IMPLIED
                             carriers (internal-electronic |
                                        external-electronic |
                                        paper ) #IMPLIED
                             status CDATA #IMPLIED >

<!--
  Amendment request document (PCT Art 19, Art 34)
-->
<!ELEMENT amendment EMPTY>

<!ATTLIST amendment id ID #IMPLIED
                     file CDATA #REQUIRED
                     lang CDATA #IMPLIED
                     status CDATA #IMPLIED
                     carriers (internal-electronic | external-electronic |
                               paper ) #IMPLIED >

<!--
  Notification form among applicant and offices
-->
<!ELEMENT notification EMPTY>
```

```
<!ATTLIST notification id ID #IMPLIED
                    file CDATA #REQUIRED
                    lang CDATA #IMPLIED
                    carriers (internal-electronic |
                            external-electronic |
                            paper ) #IMPLIED
                    notf-type CDATA #REQUIRED
                    status CDATA #IMPLIED >

<!--
  Changes to bibliographic material; e.g. name, address
-->
<!ELEMENT bib-changes EMPTY>

<!ATTLIST bib-changes id ID #IMPLIED
                    file CDATA #REQUIRED
                    lang CDATA #IMPLIED
                    status CDATA #IMPLIED
                    carriers (internal-electronic |
                            external-electronic |
                            paper ) #IMPLIED >

<!--
  Copy of general power of attorney; PCT/RO/101 Box IX Check-box 4
-->
<!ELEMENT copy-general-power-of-attorney EMPTY>

<!ATTLIST copy-general-power-of-attorney id ID #IMPLIED
                    file CDATA #REQUIRED
                    lang CDATA #IMPLIED
                    carriers (internal-electronic |
                            external-electronic |
                            paper ) #IMPLIED
                    ref-number CDATA #IMPLIED
                    status CDATA #IMPLIED >

<!--
  Original general power of attorney;
  PCT/RO/101 Box IX, Check-box 3
-->
<!ELEMENT general-power-of-attorney EMPTY>

<!ATTLIST general-power-of-attorney id ID #IMPLIED
                    file CDATA #REQUIRED
                    lang CDATA #IMPLIED
                    carriers (internal-electronic |
                            external-electronic |
                            paper ) #IMPLIED
                    status CDATA #IMPLIED >

<!--
  Original separate power of attorney
-->
<!ELEMENT separate-power-of-attorney EMPTY>

<!ATTLIST separate-power-of-attorney id ID #IMPLIED
                    file CDATA #REQUIRED
                    lang CDATA #IMPLIED
                    carriers (internal-electronic |
                            external-electronic |
                            paper ) #IMPLIED
                    status CDATA #IMPLIED >

<!--
  Separate indications concerning deposited microorganism
```



```
Chapter2-demand form (IPEA401)

-->
<!ELEMENT chapter2-demand EMPTY>

<!ATTLIST chapter2-demand id ID #IMPLIED
                           file CDATA #REQUIRED
                           lang CDATA #IMPLIED
                           status CDATA #IMPLIED
                           carriers (internal-electronic |
                                   external-electronic |
                                   paper ) #IMPLIED >

<!--
  Table external document:
-->
<!ELEMENT table-external EMPTY>

<!ATTLIST table-external id ID #IMPLIED
                           file CDATA #REQUIRED
                           lang CDATA #IMPLIED
                           carriers (internal-electronic |
                                   external-electronic |
                                   paper ) #IMPLIED
                           status CDATA #IMPLIED >

<!--
  Application Body document:
  (ST32: PATDOC)
  description, claims, drawings and abstract
-->
<!ELEMENT application-body-doc EMPTY>

<!ATTLIST application-body-doc id ID #IMPLIED
                                file CDATA #REQUIRED
                                lang CDATA #IMPLIED
                                status CDATA #IMPLIED
                                carriers (internal-electronic |
                                        external-electronic |
                                        paper ) #IMPLIED >

<!--
  PCT request form (PCT/RO/101)
-->
<!ELEMENT application-request EMPTY>

<!ATTLIST application-request id ID #IMPLIED
                               file CDATA #REQUIRED
                               lang CDATA #IMPLIED
                               status CDATA #IMPLIED
                               carriers (internal-electronic |
                                       external-electronic |
                                       paper ) #IMPLIED >

<!--
  A signature represented by electronic means
-->
<!ELEMENT electronic-signature (basic-signature | enhanced-signature)>

<!ATTLIST electronic-signature date CDATA #REQUIRED
                                place-signed CDATA #IMPLIED >

<!--
  A TIFF image of a signature
-->
```

```
<!ELEMENT fax-image EMPTY>

<!ATTLIST fax-image  file CDATA  #REQUIRED >

<!--
  Information regarding notice
-->
<!ELEMENT notice-info (response-term? , applicant-name* , agent-info? , reason-for-
rejection-info? , drafting-document-info?)>

<!ATTLIST notice-info  notice-id-ref CDATA  #REQUIRED >

<!--
  Response term of invitation.

  Attributes:
    term      = period of time
    division  = discernment of month or day
-->
<!ELEMENT response-term EMPTY>

<!ATTLIST response-term  unit-of-time CDATA  #REQUIRED
                        value          CDATA  #REQUIRED >

<!--
  Publication reference information: publication number, date, etc
  (INID 11, ST.32:B110)
-->
<!ELEMENT publication-reference (document-id)>

<!ATTLIST publication-reference  id ID  #IMPLIED >

<!--
  Application reference information: application number, country
  (INID 21, ST.32:B210)
-->
<!ELEMENT application-reference (document-id)>

<!ATTLIST application-reference  id          ID          #IMPLIED
                                appl-type CDATA  #IMPLIED >

<!--
  Document identification refers to patents (and patent applications) only.
  See WIPO ST.14
-->
<!ELEMENT document-id (country , doc-number , kind? , name? , date?)>

<!ATTLIST document-id  lang CDATA  #IMPLIED >

<!--
  Reference to an appealed application
-->
<!ELEMENT appeal-reference (doc-number , date?)>

<!ATTLIST appeal-reference  appeal-type CDATA  #REQUIRED >

<!--
  Name:
  If no distinction or detail can be given.
  Also to be used for: personal (natural person) and corporate (legal entity) names
-->
<!ELEMENT name (#PCDATA)>
```

```
<!ATTLIST name name-type (legal | natural ) #IMPLIED >

<!--
  Title of the Invention:
    (INID 54, ST.32:B540/B542)

  Preferably two to seven words when in English or translated into English and
  precise. (Rule 4.3)

  Recommended id = 'invt'
-->
<!ELEMENT invention-title (#PCDATA | b | i | u | o | sup | sub)*>

<!ATTLIST invention-title id ID #IMPLIED
                        lang CDATA #IMPLIED >

<!--
  Underscore: style - single is default
-->
<!ELEMENT u (#PCDATA | b | i | smallcaps | sup | sub)*>

<!ATTLIST u style (single | double | dash | dots ) 'single' >

<!--
  Overscore: style - single is default
-->
<!ELEMENT o (#PCDATA | b | i | smallcaps | sup | sub)*>

<!ATTLIST o style (single |
                  double |
                  dash |
                  dots |
                  leftarrow |
                  rightarrow |
                  leftrightarrow ) 'single' >

<!--
  Holder for other documents that do not conform to one of the DTDs published in
  Appendix I of Annex F.
-->
<!ELEMENT other-documents (other-doc*)>

<!--
  Descriptive text
-->
<!ELEMENT dtext (#PCDATA)>

<!--
  The name of the other-doc(ument) referenced
-->
<!ELEMENT document-name (#PCDATA)>

<!--
  Signatories
-->
<!ELEMENT signatories (signatory+)>

<!--
```

PCT/RO/101 Box No. X:

The signature must be that of the applicant (if there are several applicants, all must sign); however, the signature may be that of the agent, or the common representative, where a separate power of attorney appointing the agent or the common representative, respectively, or a copy of a general power of attorney is already in possession of the receiving Office, is furnished...

(PCT Rules 4.1(d), 4.15, and 90)

Indicate the capacity of the signer with 'signatory-capacity'

-->

```
<!ELEMENT signatory (%name_group; , address? , electronic-signature , signatory-capacity?)>
```

```
<!ATTLIST signatory
      id ID #IMPLIED>
```

<!--

The capacity in which the person signs

-->

```
<!ELEMENT signatory-capacity (#PCDATA)>
```

<!--

A PKI / PKCS #7 digital signature data type

-->

```
<!ELEMENT enhanced-signature (pkcs7)>
```

<!--

PKCS7 digital signature

-->

```
<!ELEMENT pkcs7 EMPTY>
```

<!--

A non-PKI electronic signature

-->

```
<!ELEMENT basic-signature (fax-image | text-string | click-wrap)>
```

<!--

A simple 'signature';

e.g., clicking a button labeled 'accept' or 'I agree'

-->

```
<!ELEMENT click-wrap EMPTY>
```

<!--

A simple text string is to be used as the basic electronic signature;

e.g., John Doe <text-string>/jd/</text-string>

-->

```
<!ELEMENT text-string (#PCDATA)>
```

<!--

Transmittal information

-->

```
<!ELEMENT transmittal-info (new-application | subsequent-filing | office-to-office | office-to-applicant)>
```



```
<!--
  Document transfer information from office to applicant
-->
<!ELEMENT office-to-applicant (from , invention-title? , confirmation-number? ,
receipt-list-info? , file-reference-id? , (application-reference+ | (patent-
reference , application-reference+)) , notice-info* , total-number-of-
notifications?)>

<!--
  The total number of cases ready for notice
-->
<!ELEMENT total-number-of-notifications (#PCDATA)>

<!--
  A list of the receipts produced by the Office in response to query
  "what did I send you?"
-->
<!ELEMENT receipt-list-info (applicant-name? , receipt-number*)>

<!--
  Notification to the applicant of the document code of the object to draft
-->
<!ELEMENT drafting-document-info (document-code? , (receipt-number | dispatch-id))>

<!--
  Dispatch identifier
-->
<!ELEMENT dispatch-id (#PCDATA)>

<!--
  Receipt number
-->
<!ELEMENT receipt-number (#PCDATA)>

<!--
  The Japanese applicant is demanding the notice of the reason for rejection
-->
<!ELEMENT reason-for-rejection-info (reason-code , text)>

<!--
  Code of the reason for rejection
-->
<!ELEMENT reason-code (#PCDATA)>

<!--
  Information regarding the agent (without address information)
-->
<!ELEMENT agent-info (agent-name+ | customer-number)>

<!--
  Customer number for agents by office
```

```
-->
<!ELEMENT customer-number (#PCDATA)>

<!--
  The name of the agent (without address information)
-->
<!ELEMENT agent-name (%name_group;)>

<!--
  The name of the applicant (without address information)
  (ST.32:B711)
-->
<!ELEMENT applicant-name (%name_group;)>

<!--
  Document transfer information between offices.
-->
<!ELEMENT office-to-office (invention-title? , first-named-applicant? ,
confirmation-number? , application-reference , publication-reference? , file-
reference-id? , from? , to?)>

<!--
  The office that sends the document
-->
<!ELEMENT from (country)>

<!--
  Subsequent filing information, before Issue Date
-->
<!ELEMENT subsequent-filing (invention-title? , first-named-applicant ,
confirmation-number? , file-reference-id? , appeal-reference? , (application-
reference+ | (patent-reference , application-reference+)) , document-code* , to)>

<!--
  Patent reference information: patent number, date, etc
-->
<!ELEMENT patent-reference (document-id)>

<!--
  Document kind code; e.g., A1
  (INID 13, ST.32:B130)
-->
<!ELEMENT kind (#PCDATA)>

<!--
  Date: components of a date.  Format: YYYYMMDD
-->
<!ELEMENT date (#PCDATA)>

<!--
  The number of the referenced patent (or application) document
-->
```

```
<!ELEMENT doc-number (#PCDATA)>

<!--
  Confirmation number from office
-->
<!ELEMENT confirmation-number (#PCDATA)>

<!--
  New application information from applicant to office
-->
<!ELEMENT new-application (invention-title? , first-named-applicant? , file-
reference-id? , document-code* , to)>

<!--
  The office that receives the document
-->
<!ELEMENT to (country)>

<!--
  For reference to non-PCT document from national office;
  code defined by national office
-->
<!ELEMENT document-code (#PCDATA)>

<!--
  Applicant's or agent's file reference, if desired, 12 characters maximum
-->
<!ELEMENT file-reference-id (#PCDATA)>

<!--
  First applicant name in applicant group
-->
<!ELEMENT first-named-applicant (%name_group; , address?)>

<!--
  Address components:
  Address formats differ from country to country
  If no structure possible use text
-->
<!ELEMENT address (%address_group;)>

<!--
  If no structure is possible, enter text (without markup)
-->
<!ELEMENT text (#PCDATA)>

<!--
  Country: use ST.3 country code; e.g. DE, FR, GB, NL, etc.
  Also includes EP, WO
-->
<!ELEMENT country (#PCDATA)>
```

```
<!--  
  Postal code or zip code  
-->  
<!ELEMENT postcode (#PCDATA)>  
  
<!--  
  Region of country; e.g., state, province, etc.  
-->  
<!ELEMENT state (#PCDATA)>  
  
<!--  
  County, parish, department, etc (mainly UK, USA)  
-->  
<!ELEMENT county (#PCDATA)>  
  
<!--  
  City or town name  
-->  
<!ELEMENT city (#PCDATA)>  
  
<!--  
  Street may contain house number or name  
-->  
<!ELEMENT street (#PCDATA)>  
  
<!--  
  Building information in address; e.g., Hoffman building  
-->  
<!ELEMENT building (#PCDATA)>  
  
<!--  
  Address floor; e.g., 10th  
-->  
<!ELEMENT address-floor (#PCDATA)>  
  
<!--  
  Address room; e.g., Room 55B  
-->  
<!ELEMENT room (#PCDATA)>  
  
<!--  
  Post Office Box number  
-->  
<!ELEMENT pobox (#PCDATA)>  
  
<!--  
  Organizational mail code  
-->  
<!ELEMENT mailcode (#PCDATA)>
```

```
<!--  
  Address, fifth line  
-->  
<!ELEMENT address-5 (#PCDATA)>  
  
<!--  
  Address, fourth line  
-->  
<!ELEMENT address-4 (#PCDATA)>  
  
<!--  
  Address, third line  
-->  
<!ELEMENT address-3 (#PCDATA)>  
  
<!--  
  Address, second line  
-->  
<!ELEMENT address-2 (#PCDATA)>  
  
<!--  
  Address, first line  
-->  
<!ELEMENT address-1 (#PCDATA)>  
  
<!--  
  Registered number  
-->  
<!ELEMENT registered-number (#PCDATA)>  
  
<!--  
  Synonym  
-->  
<!ELEMENT synonym (#PCDATA)>  
  
<!--  
  Department, division, section, etc. name  
-->  
<!ELEMENT department (#PCDATA)>  
  
<!--  
  Organisation name or company name  
-->  
<!ELEMENT orgname (#PCDATA)>  
  
<!--  
  Role; e.g., President, Chairman, etc.  
-->  
<!ELEMENT role (#PCDATA)>
```

```
<!--  
  SDOBI : Individual id  
-->  
<!ELEMENT iid (#PCDATA)>  
  
<!--  
  Name suffix (e.g., II, Jr., Dip., Ing., BA, etc.)  
-->  
<!ELEMENT suffix (#PCDATA)>  
  
<!--  
  Middle name(s) or initial(s)  
-->  
<!ELEMENT middle-name (#PCDATA)>  
  
<!--  
  First or given name(s), initial(s)  
-->  
<!ELEMENT first-name (#PCDATA)>  
  
<!--  
  Last, family, surname  
-->  
<!ELEMENT last-name (#PCDATA)>  
  
<!--  
  Title: e.g., Mr., Mrs., Dr. etc  
-->  
<!ELEMENT prefix (#PCDATA)>  
  
<!--  
  Bold formatting for text  
-->  
<!ELEMENT b (#PCDATA | i | u | o | smallcaps | sup | sub)*>  
  
<!--  
  Italic formatting for text  
-->  
<!ELEMENT i (#PCDATA | b | u | o | smallcaps | sup | sub)*>  
  
<!--  
  Small capitals  
-->  
<!ELEMENT smallcaps (#PCDATA | b | u | i | o)*>  
  
<!--  
  Subscripted text  
-->  
<!ELEMENT sub (#PCDATA | b | u | i | o | sup2 | sub2)*>
```

```
<!--
  Superscripted text
-->
<!ELEMENT sup (#PCDATA | b | u | i | o | sup2 | sub2)*>

<!--
  Subscripted text
-->
<!ELEMENT sub2 (#PCDATA | b | u | i | o)*>

<!--
  Superscripted text
-->
<!ELEMENT sup2 (#PCDATA | b | u | i | o)*>

<!-- bio = stub; not same as element (yet) -->

<!--
  Written Opinion of a searching authority
-->
<!ELEMENT written-opinion EMPTY>
<!ATTLIST written-opinion id          ID          #IMPLIED
                           file       CDATA      #REQUIRED
                           lang       CDATA      #IMPLIED
                           carriers   (internal-electronic |
                                   external-electronic |
                                   paper ) #IMPLIED
                           status    CDATA      #IMPLIED >
```

3.2 Formulaire de requête

```
<?xml version='1.0' encoding='UTF-8' ?>

<!ENTITY % name_group "((name | (prefix? , (last-name | orgname) , first-name? ,
middle-name? , suffix? , iid? , role? , orgname? , department? , synonym*)) ,
registered-number?)">

<!ENTITY % address_group "((address-1? , address-2? , address-3? , address-4? ,
address-5? , mailcode? , pobox? , room? , address-floor? , building? , street? ,
city? , county? , state? , postcode? , country) | text)">

<!--
*****
* Request v1.9      2017  JULY                                     *
*****
* PUBLIC "-//WIPO//DTD REQUEST 1.9//EN" "request-v1-9.dtd"      *
*****
* https://www.wipo.int/pct-safe/en/resources/1.15/request-v1-9.dtd *
*****
* contacts:                                                    *
*   WIPO: Yuya USHIDA; yuya.ushida@wipo.int                    *
*****
* revision history                                             *
*****
Asahi HASEBE : 01/07/17 incorporated changes from PFC
..changed version number from v1.8 to v1.9
..added an attribute "id" to signatory and us-rights
..added an element " earlier-search-authorization" to search-authority
..added an element "figures-in-color" to "request"
```

SY: 01/07/12 incorporated changes from PFC:
..changed version number from v1.7 to v1.8
..added attribute 'priority-doc-access-code' to priority-doc-from-library (PFC12/001)

SY: 01/04/10 incorporated changes from PFC:
..changed version number from v1.6 to v1.7
..added element 'priority-doc-from-library' to priority-claim (PFC09/005)
..added element 'store-in-digital-library' to request (PFC09/005)

MO: 01/07/09 incorporated changes from PFC:
..changed version number from v1.5 to v1.6
..added attribute 'carriers-type' to cl-sequence-listing (PFC09/001)
..added attribute 'carriers-quantity' to cl-sequence-listing (PFC09/001)
..added attribute 'size' to cl-sequence-listing (PFC09/001)

MO: 01/07/08 incorporated changes from PFCs:
..changed version number from v1.4 to v1.5
..added element 'substantially-equivalent' to earlier-search-request (PFC08/003)
..added element 'earlier-search-document' to earlier-search-request (PFC08/003)
..added element 'cl-earlier-search-document' to check-list (PFC08/003)
..added attribute 'email-purpose' to email (PFC08/006)
..added attribute 'for-search-only' to cl-sequence-listing-table (PFC08/007)
..added attribute 'additional-copies-including-search-copy' to cl-sequence-listing-table (PFC08/007)
..added attribute 'with-identifying-statement' to cl-sequence-listing-table (PFC08/007)
..added attribute 'for-search-only' to cl-sequence-listing (PFC08/007)
..added attribute 'additional-copies-including-search-copy' to cl-sequence-listing (PFC08/007)
..added attribute 'with-identifying-statement' to cl-sequence-listing (PFC08/007)

MO: 01/01/07 incorporated changes from PFCs:
..changed version number from v1.3 to v1.4
..added element 'sup' to u (PFC06/003)
..added element 'sup' to i (PFC06/003)
..added element 'sup' to b (PFC06/003)
..added element 'sub' to u (PFC06/003)
..added element 'sub' to i (PFC06/003)
..added element 'sub' to b (PFC06/003)
..added element 'o' to invention-title, b, i, sup, sup2, sub, sub2, heading, claim-text,
p, small-caps, dt, dd, li, crossref, figref, othercit, statement (PFC06/003)
..added element 'incorporation-by-reference' to priority-claims (PFC06/004)
..added element 'restore-rights' to priority-claim (PFC06/004)
..added element 'cl-restore-rights-reason' to checklist (PFC06/004)
..added element 'address-4' to address (PFC06/005)
..added element 'address-5' to address (PFC06/005)
..added attribute 'subset' to protection-request (PFC06/005)

HT: 14/12/04 incorporated changes from PFCs:
..changed attribute he, wl of doc-page from 'NMTOKEN' to 'CDATA'
..added attribute 'id' to addressbook, priority-claim
..added attribute 'ocr' to doc-page

HT: 20/07/04 incorporated changes from PFCs:
..changed version number from v1.2 to v1.3
..added attribute 'legal-representative', 'administrator', 'administratrix',
'legal-representatives', 'heirs', 'executors', 'legal-heirs' to us-right
..added value 'national-office', 'regional-office' to attribute produced-by of root
element

HT: 16/12/03 incorporated changes from PFCs:
..changed version number from v1.1 to v1.2
..changed element request from 'dtext?' to 'dtext*'
..changed element designation-of-states
from '(precautionary-designation-statement, exclusion-from-designation?)?)'
to '(precautionary-designation-statement?, exclusion-from-designation?)?)'
..added element 'sup2' and 'sub2' to sup and sub
..added element 'cl-sequence-listing-table' to check-list
..added attribute 'ppf' and 'ppl' to cl-abstract, cl-claims, cl-description
..added attribute 'fig-count' to cl-drawings
..added attribute 'carriers' to cl-sequence-listing

JD: 03/02/03 incorporated changes from PFCs:
..changed version number from v1.0 to v1.1
..changed element inventors from '(inventor+, deceased-inventor*)' to '(inventor |
deceased-inventor)+'


```

..changed element protection-request from '?' to '*' in national, regional
..added element 'any-other-state' to regional
..added attribute 'total-page-count' to check-list
..added attribute 'page-count' to cl-sequence-listing
..added attribute 'lang', 'sequence' attributes to deceased-inventor
..added attribute 'orientation' to doc-page
..added (last-name | orgname) option to %name_group;
..made postcode optional within address
..removed 'br' from b, i, smallcaps
December 2001
..released version number as v1.0
*****

PCT REQUEST FORM : RO101 (root element)

attributes for request

Attributes:
  lang          = language of application - use ISO639 language code
  dtd-version   = dtd version number
  file          = filename of the whole application
  status        = status of the application; values: new = new application
  date-produced = YYYYMMDD e.g, 20011230  if desired, 12 characters maximum
  ro            = Receiving office name, country code ST.3
  produced-by   = creator of this document

-->
<!ELEMENT request ((file-reference-id? , request-petition , invention-title? ,
parties , designation-of-states? , priority-claims? , search-authority? ,
declarations? , check-list? , figure-to-publish? , figures-in-color? , language-
of-filing? , signatories? , store-in-digital-library? , dtext* , office-specific-
data*) | doc-page+)>

<!ATTLIST request  lang          CDATA #REQUIRED
                   dtd-version  CDATA #IMPLIED
                   file          CDATA #IMPLIED
                   produced-by   (applicant |
                                RO |
                                ISA |
                                IPEA |
                                IB |
                                DO |
                                EO |
                                national-office |
                                regional-office ) #REQUIRED
                   date-produced CDATA #IMPLIED
                   ro            CDATA #REQUIRED
                   status        CDATA #IMPLIED >

<!--
doc-page - DOCUMENT or PAGE

This is primarily to be used when data for the whole or major sections of an
application are in image format OR other formats such as pdf.

Page range attributes are given when required
  pp - page range
  ppf - first page
  ppl - last page (for pdf).
The 'img' may also be used for complete pages, e.g. in drawings

Recommended id = docp0001, docp0002, etc.
Attributes "he" and "wi" mean height and width.

-->
<!ELEMENT doc-page EMPTY>

<!ATTLIST doc-page  id          ID #IMPLIED
                   he          CDATA #REQUIRED

```

```

wi          CDATA #REQUIRED
type       (jpg | pdf | tif ) #REQUIRED
alt        CDATA #IMPLIED
pp         CDATA #IMPLIED
ppf        CDATA #IMPLIED
ppl        CDATA #IMPLIED
file       CDATA #REQUIRED
ocr        CDATA #IMPLIED
color      (color | bw ) #IMPLIED
orientation (portrait | landscape ) 'portrait' >

<!--
  Office is the ST.3 country code, including the regional authorities.
  Office-dtd is the file which contains the DTD for the office-specific elements.
-->
<!ELEMENT office-specific-data EMPTY>

<!ATTLIST office-specific-data  office      CDATA #REQUIRED
                                office-dtd  CDATA #REQUIRED
                                file         CDATA #REQUIRED
                                id          ID   #IMPLIED
                                lang        CDATA #IMPLIED
                                status      CDATA #IMPLIED >

<!--
  Indicator used to flag request to store this application in digital library for
  later use as a priority document.
  In the case of PCT this will be the WIPO DAS for Priority documents
  The Indicators presence implies the request and absence implies no request
-->
<!ELEMENT store-in-digital-library EMPTY>

<!ATTLIST store-in-digital-library  id ID #IMPLIED >

<!--
  A signature represented by electronic means
-->
<!ELEMENT electronic-signature (basic-signature | enhanced-signature)>

<!ATTLIST electronic-signature  date          CDATA #REQUIRED
                                place-signed  CDATA #IMPLIED >

<!--
  A TIFF image of a signature
-->
<!ELEMENT fax-image EMPTY>

<!ATTLIST fax-image  file CDATA #REQUIRED >

<!--
  Request (PCT/RO/101) BOX No.IX Check list, figure number to publish and language
  of International Application check-list
-->
<!ELEMENT check-list (cl-request? , cl-description? , cl-claims? , cl-abstract? ,
cl-drawings? , cl-sequence-listing? , cl-sequence-listing-table? , cl-fee-
calculation? , cl-separate-power-of-attorney? , cl-general-power-of-attorney? , cl-
copy-general-power-of-attorney? , cl-lack-of-signature? , cl-priority-document? ,
cl-translation-of-application? , cl-biological-material? , cl-restore-rights-
reason? , cl-earlier-search-document? , cl-other-document*)>

<!ATTLIST check-list  total-page-count CDATA #IMPLIED >

<!--
  Checklist; an additional document is being furnished
-->
```

```
-->
<!ELEMENT cl-other-document (#PCDATA)>

<!ATTLIST cl-other-document page-count CDATA #IMPLIED >
<!--
    Checklist; an earlier-search report is being furnished
-->
<!ELEMENT cl-earlier-search-document EMPTY>

<!ATTLIST cl-earlier-search-document quantity CDATA #REQUIRED >

<!--

-->
<!ELEMENT cl-restore-rights-reason EMPTY>

<!ATTLIST cl-restore-rights-reason quantity CDATA #REQUIRED >

<!--
    Includes the PCT/RO/134 or any separate sheet containing
    Indications that is not included as part of the description
-->
<!ELEMENT cl-biological-material EMPTY>

<!ATTLIST cl-biological-material quantity CDATA #REQUIRED >

<!--
    Check-list; a translation of application is being furnished
-->
<!ELEMENT cl-translation-of-application EMPTY>

<!ATTLIST cl-translation-of-application quantity CDATA #REQUIRED
        lang CDATA #IMPLIED >

<!--
    Checklist; a priority document is being furnished
-->
<!ELEMENT cl-priority-document (sequence-number+)>

<!ATTLIST cl-priority-document quantity CDATA #REQUIRED >

<!--
    Checklist; a statement explaining lack of signature is being furnished
-->
<!ELEMENT cl-lack-of-signature EMPTY>

<!ATTLIST cl-lack-of-signature quantity CDATA #REQUIRED >

<!--
    Checklist; a copy of the general power of attorney is being furnished
-->
<!ELEMENT cl-copy-general-power-of-attorney (ref-number+)>

<!ATTLIST cl-copy-general-power-of-attorney quantity CDATA #REQUIRED >

<!--
    Checklist; a general power of attorney is being furnished
-->
<!ELEMENT cl-general-power-of-attorney EMPTY>

<!ATTLIST cl-general-power-of-attorney quantity CDATA #REQUIRED >
```

```

<!--
  Checklist; a separate power of attorney is being furnished
-->
<!ELEMENT cl-separate-power-of-attorney EMPTY>

<!ATTLIST cl-separate-power-of-attorney  quantity CDATA #REQUIRED >

<!--
  Checklist; a sequence listing table is being furnished
-->
<!ELEMENT cl-sequence-listing-table EMPTY>

<!ATTLIST cl-sequence-listing-table  quantity CDATA
#REQUIRED
                                for-search-only
(yes |
) #IMPLIED
                                additional-copies-including-search-copy
(yes |
) #IMPLIED
                                with-identifying-statement
(yes |
) #IMPLIED
                                page-count
CDATA #IMPLIED
                                carriers
(internal-electronic |
external-electronic |
paper ) #IMPLIED >

<!--
  Checklist; a sequence listing or sequence listings is/are being furnished
  For carrier-type the listed values represent:
    FD - Floppy Disc
    CD - Compact Disc
    BD - Blu-Ray Disc
    DVD - Digital Versatile Disc
    Other - Other media types
-->
<!ELEMENT cl-sequence-listing EMPTY>

<!ATTLIST cl-sequence-listing  quantity CDATA
#REQUIRED
                                for-search-only
(yes |
#IMPLIED
                                additional-copies-including-search-copy
(yes |
#IMPLIED
                                with-identifying-statement
(yes |
#IMPLIED
                                page-count CDATA
#IMPLIED
                                carriers
(internal-electronic |
external-electronic |
paper )

```

```
#IMPLIED
                                carriers-type                                (FD
|
                                                                CD |
                                                                BD |
                                                                DVD |
                                                                other )
#IMPLIED
                                carriers-quantity                          CDATA
#IMPLIED
                                size                                        CDATA
#IMPLIED >

<!--
  Checklist; drawings are being furnished
  (ST32:B598)
-->
<!ELEMENT cl-drawings EMPTY>

<!ATTLIST cl-drawings  page-count CDATA #IMPLIED
                        fig-count  CDATA #IMPLIED>

<!--
  Checklist; the abstract is being furnished
-->
<!ELEMENT cl-abstract EMPTY>

<!ATTLIST cl-abstract  page-count CDATA #IMPLIED
                        ppf         CDATA #IMPLIED
                        ppl         CDATA #IMPLIED >

<!--
  Checklist; claims are being furnished
-->
<!ELEMENT cl-claims EMPTY>

<!ATTLIST cl-claims  page-count CDATA #IMPLIED
                    ppf         CDATA #IMPLIED
                    ppl         CDATA #IMPLIED >

<!--
  Checklist; a description is being furnished
-->
<!ELEMENT cl-description EMPTY>

<!ATTLIST cl-description  page-count CDATA #IMPLIED
                          ppf         CDATA #IMPLIED
                          ppl         CDATA #IMPLIED >

<!--
  Checklist; the request is being furnished
-->
<!ELEMENT cl-request EMPTY>

<!ATTLIST cl-request  page-count CDATA #IMPLIED >

<!--
  Declaration as to non-prejudicial disclosures or exceptions to lack of novelty
  (Rules 4.17(v) and 5lbis.1(a)(v))
-->
<!ELEMENT declaration5 EMPTY>

<!ATTLIST declaration5  quantity CDATA #REQUIRED >
```



```
<!--
The individual or entity responsible for creating the matter that protection is
sought for.
(ST.32:B721)

-->
<!ELEMENT inventor (addressbook+ , designated-states?)>

<!ATTLIST inventor  sequence      CDATA #REQUIRED
                    designation    (all | all-except-us | us-only | as-
indicated ) #IMPLIED >

<!--
Applicant information:
(INID 71, ST.32:B710)

attributes for applicant
sequence      : sequence number of each applicant
                e.g, sequence="1"
app-type     : applicant type
                app-type="applicant" : the applicant is only applicant
                app-type="applicant-inventor" : the applicant is also inventor
designation: This person is applicant for the purpose of:
                designation="all"       : all designated states
                designation="all-except-us": all designated states except US
                designation="us-only"   : US only
                designation="as-indicated" : the states indicated in
                                                designated-states element
                                                under applicant element

-->
<!ELEMENT applicant (addressbook+ , nationality , residence , us-rights* ,
designated-states? , designated-states-as-inventor?)>

<!ATTLIST applicant  sequence      CDATA #REQUIRED
                    app-type       (applicant | applicant-inventor )
#REQUIRED
                    designation    (all | all-except-us | us-only | as-
indicated ) #REQUIRED >

<!--
This person is successor to the rights of an inventor who is deceased, insane, or
legally incapacitated, for the purposes of the designation of the United States
of America

-->
<!ELEMENT us-rights (#PCDATA)>

<!ATTLIST us-rights  to-dead-inventor CDATA #REQUIRED
                    kind              (heir |
                                        heiress |
                                        executor |
                                        executrix |
                                        estate |
                                        legal-representative |
                                        administrator |
                                        administratrix |
                                        legal-representatives |
                                        heirs |
                                        executors |
                                        legal-heirs ) #REQUIRED
                    id ID #IMPLIED >

<!--
ADDRESSBOOK GROUP:
Holds name and contact information for individuals/organizations

The LANG attribute is REQUIRED for certain document types,
e.g., the JPO PCT Request where names and addresses may be repeated in two
```



```
different languages. If no structure possible use text.

-->
<!ELEMENT addressbook ((%name_group; , address , phone* , fax* , email* , url* ,
ead* , dtext?) | text)>

<!ATTLIST addressbook id ID #IMPLIED
                    lang CDATA #IMPLIED >

<!--
    Email address

    Attribute:
        email-purpose    reason for which email address is included:
informal    for informal contact only
general    for any type of communication
confirmation any type of communication, but formal messages followed up
            by conventional mailing (to the extent offered)
main       where applicant desires this address to be used as primary
            means of contact as a replacement of the use of conventional
            post (to the extent that an Office offers this)
            the default value depends on e-mail policies of the relevant Office.
            For PCT purposes as at 1 July 2008, no attribute being included is
            equivalent to 'informal'

-->
<!ELEMENT email (#PCDATA)>

<!ATTLIST email email-purpose (informal | general | advance | main ) #IMPLIED >

<!--
    Name:
    If no distinction or detail can be given.
    Also to be used for: personal (natural person) and corporate (legal entity) names

-->
<!ELEMENT name (#PCDATA)>

<!ATTLIST name name-type (legal | natural ) #IMPLIED >

<!--
    Title of the Invention:
        (INID 54, ST.32:B540/B542)

    Preferably two to seven words when in English or translated into English and
    precise. (Rule 4.3)

    Recommended id = 'invt'

-->
<!ELEMENT invention-title (#PCDATA | b | i | u | o | sup | sub)*>

<!ATTLIST invention-title id ID #IMPLIED
                        lang CDATA #IMPLIED >

<!--
    Underscore: style - single is default

-->
<!ELEMENT u (#PCDATA | b | i | smallcaps | sup | sub)*>

<!ATTLIST u style (single | double | dash | dots ) 'single' >

<!--
    Overscore: style - single is default

-->
<!ELEMENT o (#PCDATA | b | i | smallcaps | sup | sub)*>

<!ATTLIST o style (single |
```

```
double |
dash |
dots |
leftarrow |
rightarrow |
leftrightarrow ) 'single' >

<!--
  Signatories
-->
<!ELEMENT signatories (signatory+)>

<!--
  PCT/RO/101 Box No. X:
  The signature must be that of the applicant (if there are several applicants, all
  must sign); however, the signature may be that of the agent, or the common
  representative, where a separate power of attorney appointing the agent or the
  common representative, respectively, or a copy of a general power of attorney is
  already in possession of the receiving Office, is furnished...
  (PCT Rules 4.1(d), 4.15, and 90)

  Indicate the capacity of the signer with 'signatory-capacity'
-->
<!ELEMENT signatory (%name_group; , address? , electronic-signature , signatory-
capacity?)>

<!ATTLIST signatory
      id ID #IMPLIED>

<!--
  The capacity in which the person signs
-->
<!ELEMENT signatory-capacity (#PCDATA)>

<!--
  A PKI / PKCS #7 digital signature data type
-->
<!ELEMENT enhanced-signature (pkcs7)>

<!--
  PKCS7 digital signature
-->
<!ELEMENT pkcs7 EMPTY>

<!--
  A non-PKI electronic signature
-->
<!ELEMENT basic-signature (fax-image | text-string | click-wrap)>

<!--
  A simple 'signature';
  e.g., clicking a button labeled 'accept' or 'I agree'
-->
<!ELEMENT click-wrap EMPTY>

<!--
```

```
A simple text string is to be used as the basic electronic signature;  
e.g., John Doe <text-string>/jd/</text-string>  
  
-->  
<!ELEMENT text-string (#PCDATA)>  
  
<!--  
  Filing language, ISO639 language code, e.g, en,de,ja, etc.  
  (INID 25, ST.32:B250)  
-->  
<!ELEMENT language-of-filing (#PCDATA)>  
  
<!--  
  Figure of the drawings which should accompany the abstract  
-->  
<!ELEMENT figure-to-publish (fig-number+)>  
  
<!--  
  PCT/RO/101 Box IX: the number of the figure which should accompany the abstract.  
  (ST.32:B598)  
-->  
<!ELEMENT fig-number (#PCDATA)>  
  
<!--  
  Sequential identification of priority documents.  PCT/RO/101 Box VI.  
-->  
<!ELEMENT sequence-number (#PCDATA)>  
  
<!--  
  Reference number of general power of attorney.  
-->  
<!ELEMENT ref-number (#PCDATA)>  
  
<!--  
  Checklist; a fee calculation sheet is being furnished  
-->  
<!ELEMENT cl-fee-calculation EMPTY>  
  
<!--  
  PCT/RO/101 Box No. VIII: DECLARATIONS  
  (Rules 4.1(c)(iii) and 4.17)  
-->  
<!ELEMENT declarations (declaration1? , declaration2? , declaration3? ,  
  declaration4? , declaration5?)>  
  
<!--  
  PCT/RO/101 Box No.VII :International Searching Authority  
-->  
<!ELEMENT search-authority (isa , earlier-search-request? , earlier-search-  
  authorization*)>  
  
<!--  
  Request to use results of earlier search; reference to that search
```

```
-->
<!ELEMENT earlier-search-request (document-id , substantially-equivalent? ,
earlier-search-documents?)+>

<!--
-->
<!ELEMENT substantially-equivalent EMPTY>

<!--
  International Search Authority; international search to be carried out by
-->
<!ELEMENT isa (country)>

<!--
  PCT/RO/101 BOX No.VI Priority Claim (PCT Rule 4.10)
  (INID 30, ST.32:B300)
-->
<!ELEMENT priority-claims (priority-claim+ , incorporation-by-reference?)>

<!--
  where an element of the international application referred to in Article
  11(1)(iii)(d) or (e) or a part of the description, claims or drawings referred to
  in Rule 20.5(a) is not otherwise contained in this international application but is
  completely contained in an earlier application whose priority is claimed on the
  date on which one or more elements referred to in Article 11(1)(iii) were first
  received by the receiving Office, that element or part is, subject to confirmation
  under Rule 20.6, incorporated by reference in this international application for
  the purposes of Rule 20.6
-->
<!ELEMENT incorporation-by-reference EMPTY>

<!--
  The priority document is attached to the application
-->
<!ELEMENT priority-doc-attached EMPTY>

<!--
  The receiving office is requested to prepare and transmit to the IB a certified
  copy of the earlier application
-->
<!ELEMENT priority-doc-requested EMPTY>

<!--
  This element is made when the receiving Office is requested to restore the
  right of priority.
-->
<!ELEMENT restore-rights EMPTY>

<!--
  Where the earlier application is an ARIPO application, indicate at least one
  country party to the PARIS convention for the protection of industrial property
  or one member of the WTO for which that earlier application was filed.
-->
<!ELEMENT office-of-filing ((region , country?) | country)>
```

```
<!--  
  PCT/RO/101 Box No.V Designation Of States (PCT Rule 4.9)  
-->  
<!ELEMENT designation-of-states (designation-pct , (precautionary-designation-  
statement? , exclusion-from-designation?))>  
  
<!--  
  Rule 4.9(b),(c)  
  In addition to the designations made above [i.e, designation-of states], the  
  applicant also makes under Rule 4.9(b) all other designations which would be  
  permitted under the PCT except any designation(s) indicated in the Supplemental  
  Box [i.e., exclusion-from-designation] as being excluded form the scope of this  
  statement. The applicant declares that those additional designations are  
  subject to confirmation and that any designation which is not confirmed before  
  the expiration of 15 months from the priority date is to be regarded as  
  withdrawn by the applicant at the expiration of that time limit.  
-->  
<!ELEMENT precautionary-designation-statement (#PCDATA)>  
  
<!--  
  State(s) excluded from precautionary designations under Rule 4.9(b)  
-->  
<!ELEMENT exclusion-from-designation (regional* , national?)>  
  
<!--  
  The Contracting States in which protection is desired  
  (Rules 4.1(a)(iv) and 4.9(a))  
-->  
<!ELEMENT designation-pct (regional* , national? , new-designation-country*)>  
  
<!--  
  New PCT member country states (e.g., not yet published in WIPO ST.3, joined after  
  PCT electronic filing software published)  
-->  
<!ELEMENT new-designation-country (#PCDATA)>  
  
<!--  
  The States for which protection or exclusion (depending upon context) is desired  
-->  
<!ELEMENT national (country , protection-request*+)>  
  
<!--  
  Regional (as opposed to national) protection being sought  
-->  
<!ELEMENT regional (region , (country , protection-request*+ , any-other-state?))>  
  
<!--  
  Any other state in which protection is being sought  
-->  
<!ELEMENT any-other-state EMPTY>  
  
<!--
```

```
Date: components of a date. Format: YYYYMMDD

-->
<!ELEMENT date (#PCDATA)>

<!--
Document kind code; e.g., A1
(INID 13, ST.32:B130)
-->
<!ELEMENT kind (#PCDATA)>

<!--
The number of the referenced patent (or application) document
-->
<!ELEMENT doc-number (#PCDATA)>

<!--
Kind of protection; e.g., patent, utility model
-->
<!ELEMENT kind-of-protection (#PCDATA)>

<!--
PCT/RO/101 Box No.II, III and IV APPLICANTS, FURTHER APPLICANT(S)
AND/OR (FURTHER) INVENTOR(S)AGENT OR COMMON REPRESENTATIVE;
OR ADDRESS FOR CORRESPONDENCE (PCT Rule 4.5, 4.6, 4.7, 4.8)
(INID 70, ST.32:B700)
-->
<!ELEMENT parties (applicants , inventors? , correspondence-address? , agents?)>

<!--
Information regarding Agents or common representatives
-->
<!ELEMENT agents (customer-number | agent+)>

<!--
Address used for general correspondence
-->
<!ELEMENT correspondence-address (customer-number | addressbook+)>

<!--
Customer number for agents by office
-->
<!ELEMENT customer-number (#PCDATA)>

<!--
Inventors information:
If the US is designated, all of the inventors must also be named as applicants
for purposes of that designation.
-->
<!ELEMENT inventors (inventor | deceased-inventor)+>

<!--
Applicants information:
```

At least one of the applicants named must be a resident or national of a PCT Contracting State for which the receiving Office acts.

```
-->
<!ELEMENT applicants (applicant+)>

<!--
  Rule 4.6(c):
  "The request may, for different designated states, indicate different persons
  as inventors where, in this respect, the requirements of the national laws of
  the designated States are not the same. In such a case, the request shall
  contain a separate statement for each designated State or group of States in
  which a particular person, or the same person, is to be considered the
  inventor, or in which particular persons, or the same persons, are to be
  considered the inventors."
-->
<!ELEMENT designated-states-as-inventor (country* , (region , country+)*)>

<!--
  Indication of specific Contracting States in or for which the applicant is
  seeking protection for his invention
  (Rule 4.9(a))
-->
<!ELEMENT designated-states (country* , (region , country+)*)>

<!--
  The region for which protection or exclusion (depending upon context) is desired.
-->
<!ELEMENT region (country)>

<!--
  Country of residence
-->
<!ELEMENT residence (country)>

<!--
  Country of nationality
-->
<!ELEMENT nationality (country)>

<!--
  Descriptive text
-->
<!ELEMENT dtext (#PCDATA)>

<!--
  Universal Resource Locator; e.g. www.wipo.int
-->
<!ELEMENT url (#PCDATA)>

<!--
  Fax number
-->
<!ELEMENT fax (#PCDATA)>
```

```
<!--  
    Telephone number  
-->  
<!ELEMENT phone (#PCDATA)>  
  
<!--  
    Electronic address use for other than email  
-->  
<!ELEMENT ead (#PCDATA)>  
  
<!--  
    Address components:  
    Address formats differ from country to country  
    If no structure possible use text  
-->  
<!ELEMENT address (%address_group;)>  
  
<!--  
    If no structure is possible, enter text (without markup)  
-->  
<!ELEMENT text (#PCDATA)>  
  
<!--  
    Country: use ST.3 country code; e.g. DE, FR, GB, NL, etc.  
    Also includes EP, WO  
-->  
<!ELEMENT country (#PCDATA)>  
  
<!--  
    Postal code or zip code  
-->  
<!ELEMENT postcode (#PCDATA)>  
  
<!--  
    Region of country; e.g., state, province, etc.  
-->  
<!ELEMENT state (#PCDATA)>  
  
<!--  
    County, parish, department, etc (mainly UK, USA)  
-->  
<!ELEMENT county (#PCDATA)>  
  
<!--  
    City or town name  
-->  
<!ELEMENT city (#PCDATA)>  
  
<!--  
    Street may contain house number or name
```



```
-->
<!ELEMENT street (#PCDATA)>

<!--
  Building information in address; e.g., Hoffman building
-->
<!ELEMENT building (#PCDATA)>

<!--
  Address floor; e.g., 10th
-->
<!ELEMENT address-floor (#PCDATA)>

<!--
  Address room; e.g., Room 55B
-->
<!ELEMENT room (#PCDATA)>

<!--
  Post Office Box number
-->
<!ELEMENT pobox (#PCDATA)>

<!--
  Organizational mail code
-->
<!ELEMENT mailcode (#PCDATA)>

<!--
  Address, fifth line
-->
<!ELEMENT address-5 (#PCDATA)>

<!--
  Address, fourth line
-->
<!ELEMENT address-4 (#PCDATA)>

<!--
  Address, third line
-->
<!ELEMENT address-3 (#PCDATA)>

<!--
  Address, second line
-->
<!ELEMENT address-2 (#PCDATA)>

<!--
  Address, first line
```

```
-->
<!ELEMENT address-1 (#PCDATA)>

<!--
  Registered number
-->
<!ELEMENT registered-number (#PCDATA)>

<!--
  Synonym
-->
<!ELEMENT synonym (#PCDATA)>

<!--
  Department, division, section, etc. name
-->
<!ELEMENT department (#PCDATA)>

<!--
  Organisation name or company name
-->
<!ELEMENT orgname (#PCDATA)>

<!--
  Role; e.g., President, Chairman, etc.
-->
<!ELEMENT role (#PCDATA)>

<!--
  SDOBI : Individual id
-->
<!ELEMENT iid (#PCDATA)>

<!--
  Name suffix (e.g., II, Jr., Dip., Ing., BA, etc.)
-->
<!ELEMENT suffix (#PCDATA)>

<!--
  Middle name(s) or initial(s)
-->
<!ELEMENT middle-name (#PCDATA)>

<!--
  First or given name(s), initial(s)
-->
<!ELEMENT first-name (#PCDATA)>

<!--
  Last, family, surname
```

```
-->
<!ELEMENT last-name (#PCDATA)>

<!--
  Title: e.g., Mr., Mrs., Dr. etc
-->
<!ELEMENT prefix (#PCDATA)>

<!--
  Bold formatting for text
-->
<!ELEMENT b (#PCDATA | i | u | o | smallcaps | sup | sub)*>

<!--
  Italic formatting for text
-->
<!ELEMENT i (#PCDATA | b | u | o | smallcaps | sup | sub)*>

<!--
  Small capitals
-->
<!ELEMENT smallcaps (#PCDATA | b | u | i | o)*>

<!--
  Subscripted text
-->
<!ELEMENT sub (#PCDATA | b | u | i | o | sup2 | sub2)*>

<!--
  Superscripted text
-->
<!ELEMENT sup (#PCDATA | b | u | i | o | sup2 | sub2)*>

<!--
  Subscripted text
-->
<!ELEMENT sub2 (#PCDATA | b | u | i | o)*>

<!--
  Superscripted text
-->
<!ELEMENT sup2 (#PCDATA | b | u | i | o)*>

<!--
  (PCT Rule 4.1(a)):
  "The request shall contain: (i) a petition,"
  (PCT Rule 4.2):
  "The petition shall be to the following effect and shall preferably be worded
  as follows: 'The undersigned requests that the present international
  application be processed according to the Patent Cooperation Treaty.'"
-->
```

```

<!ELEMENT request-petition (#PCDATA)>

<!--
  Applicant's or agent's file reference, if desired, 12 characters maximum
-->
<!ELEMENT file-reference-id (#PCDATA)>

<!--
  Authorization to RO to transmit earlier search
-->
<!ELEMENT earlier-search-authorization (document-id )>
<!ATTLIST earlier-search-authorization request-ro-not-transmit
(yes |
no ) #IMPLIED
                                applicant-authorizes-ro-transmit
(yes |
no ) #IMPLIED >

<!--
  Indicator used to flag the fact that the drawings of the application have been
  furnished as color images
  The indicators presence implies the drawings are in color format and absence
  implies that they are black and white
-->
<!ELEMENT figures-in-color EMPTY>

```

3.3 Corps de la demande

```

<?xml version='1.0' encoding='UTF-8' ?>

<!ENTITY % name_group "((name | (prefix? , (last-name | orgname) , first-name? ,
middle-name? , suffix? , iid? , role? , orgname? , department? , synonym*)) ,
registered-number?)">

<!ENTITY % address_group "((address-1? , address-2? , address-3? , address-4? ,
address-5? , mailcode? , pobox? , room? , address-floor? , building? , street? ,
city? , county? , state? , postcode? , country) | text)">

<!--
*****
* application-body v1.7      2017  JULY                               *
*****
* PUBLIC "-//WIPO//DTD APPLICATION BODY 1.7//EN" "application-body-v1-7.dtd" *
*****
* https://www.wipo.int/pct-safe/en/resources/1.15/application-body-v1-7.dtd *
*****
* contacts:                                                         *
*   WIPO: Yuya USHIDA; yuya.ushida@wipo.int                         *
*****
* revision history                                                 *
*****
Asahi HASEBE incorporated changes from PFCs:
..changed version number from v1.6 to v1.7
..added an attribute "color" to "figure".
MO: 01/01/09 incorporated changes from PFC
..changed version number from v1.5 to v1.6
..added element 'summary-of-invention' to description (PFC08/008)
..added element 'description-of-embodiments' to description (PFC08/008)
..added element 'reference-signs-list' to description (PFC08/008)
..added element 'reference-to-deposited-biological-material' to description

```

```
(PFC08/008)
..added element 'citation-list' to description (PFC08/008)
MO: 01/07/08 incorporated changes from PFCs:
..changed version number from v1.4 to v1.5
..added attribute 'email-purpose' to email (PFC08/006)
MO: 01/01/07 incorporated changes from PFCs:
..changed version number from v1.3 to v1.4
..implementation of PFC06/001
..added element 'sup' to u (PFC06/003)
..added element 'sup' to i (PFC06/003)
..added element 'sup' to b (PFC06/003)
..added element 'sub' to u (PFC06/003)
..added element 'sub' to i (PFC06/003)
..added element 'sub' to b (PFC06/003)
..added element 'o' to invention-title, b, i, sup, sup2, sub, sub2, heading, claim-
text,
  p, small-caps, dt, dd, li, crossref, figref, othercit, statement (PFC06/003)
..added element 'address-4' to address (PFC06/005)
..added element 'address-5' to address (PFC06/005)
HT: 14/12/04 incorporated changes from PFCs:
..changed element nplcit from '(text | (article , book , online , othercit)*)' to
'(text | article | book | online | othercit)'
..changed element othercit from '(#PCDATA)' to '(#PCDATA | b | i | u | sup | sub)*'
..changed element rel-passage from (text | (passage+ , category? , rel-claims?)) to
(text | (passage+ , category* , rel-claims*))+
..changed attribute he, wi of doc-page, img from 'NMTOKEN' to 'CDATA'
..changed value of attribute idref of crossref from 'CDATA' to 'IDREF'
..changed value of attribute tsize of dl from 'NMTOKEN' to 'CDATA'
..changed value of attribute num of patcit, nplcit from '#REQUIRED' to 'IMPLIED'
..changed value of attribute xml:space of pre from '#FIXED 'preserve'' to
'(preserve | default #IMPLIED)'
..changed value name of attribute listing-type of pre from 'software-code' to
'program-listing'
..added element 'pre' to claim-text, dd, li
..added attribute 'id' to addressbook
..added attribute 'chem-type' to chem
..added attribute 'claim-type' to claim, claims
..added attribute 'class-type' to class
..added attribute 'ocr' to doc-page
..added value 'other-subname-type' to attribute 'subname-type' of subname
..removed attribute 'lang', 'status', 'dtd-version' from chem
HT: 20/07/04 incorporated changes from PFCs:
..changed version number from v1.2 to v1.3
..changed element article, online, serial from 'subname?' to 'subname*'
..changed element chemistry from '(img)' to '(img|(chem,img?))'
..changed element maths from '(img|math)' to '(img|(math,img?))'
..changed element rel-passage from 'category?, rel-claims?' to 'category*, rel-
claims*'
..added element 'figref' to claim-text, dd, li
..added element 'b', 'i', 'u', 'sup', 'sub', 'smallcaps' to crossref
..added attribute 'num' to li
..added attribute 'subname-type' to subname
..added value 'chem', 'table', 'math', 'program-listing', 'flowchart' to attribute
img-content of img
..added value 'national-office', 'regional-office' to attribute produced-by of root
element
..removed attribute 'class-type' from nplcit
HT: 16/12/03 incorporated changes from PFCs:
..changed version number from v1.1 to v1.2
..added element 'pre' to p content model
..added element 'sup2' and 'sub2' to sup and sub
..added attribute 'lang' and 'class-type' to nplcit
..added attribute 'external-type' to table-external
..added attribute 'figure-labels' to figure
JD: 03/02/03 incorporated changes from PFCs:
..changed version number from v1.0 to v1.1
..added attribute 'file-reference-id' to root
..added attribute 'orientation' to doc-page, img
..added attribute 'inline' to img
..added attribute 'ol-style' to ol
```

```

..added attribute 'dnum-type' to patcit
..added TABLE-EXTERNAL to p content model
..made postcode optional within address
..added (last-name | orgname) choice to %name_group;
..removed br from b, i , smallcaps
2001/12/01
..released version number as v1.0
*****

*****
* XML VERSION FOR FILING OF PCT APPLICATIONS: *
* description, claims, abstract, drawings - *
* it may be utilised by other offices as required - *
* but it is NOT recommended to add or change element and *
* attribute names *
* see: http://pcteasy.wipo.int/efiling_standards/EFPage.htm *
* *
* It is intended for a) Online Filing b) (later) publication, etc *
* within the context of a new version of ST.32 (ST.32X) *
* In developing this DTD we have taken into consideration: *
* - earlier versions of this dtd *
* - ST32 version 3 *
* - Variations of ST.32 in: WIPO, USPTO, MIMOSA, etc *
* - USPTO EFS dtd *
* - Trilateral Common data dictionary *
* - ISO 12083 dtDs, etc *
*****

*****
* SECTION I - DECLARATION, ENT. REFS, ISO sets, etc *
*****

-->
<!--
import character entity set. Download from:
http://pcteasy.wipo.int/efiling_standards/schemaDocs/wipo.ent

Note that nsgmls-based parsers (SP, Near and Far Designer, etc.)
may not be able to process this file for reasons described below
in MathML comments.
-->
<!--ENTITY % wipo PUBLIC "-//WIPO//ENTITIES WIPO 1.0//EN" "wipo.ent">
%wipo;-->

<!--
*****
* INCLUDE COMPONENT DTDS (MATHML, OASIS EXCHANGE TABLE MODEL *
*****
-->
<!-- DTD MathML2: maintained by W3C. Download from:
http://www.w3.org/TR/MathML2/DTD-MathML-20010221.zip

If using nsgmls-based parser (SP, Near and Far Designer, etc.)
uncomment 'mathml-charent-module' switch below or replace the
referenced MathML2 DTD with the version downloadable from:
http://www.w3.org/Math/DTD/dtd-sp.zip

This notice copied from: http://www.w3.org/Math/DTD/

"DTD for nsgmls
Some systems (including the popular nsgmls parser) may not be able
to process files using 'plane 1' characters which have Unicode
numbers higher than #xFFFF. The versions of the DTD provided here
incorporate the modifications mentioned above, but the high
characters are replaced by the equivalent mchar construct
<mchar name="..." /> this allows the DTD to be read and for MathML
files to be validated using such systems."
-->
<!--ENTITY % mathml-charent.module "IGNORE" -->
<!ENTITY % MATHML.prefixed "IGNORE">

```

```

<!ENTITY % MATHML.xmlns "">

<!-- import MathML2 dtd -->
<!ENTITY % mathml2 PUBLIC "-//W3C//DTD MathML 2.0//EN" "mathml2.dtd">
%mathml2;

<!-- DTD OASIS Open XML Exchange Table Model.
      Maintained by OASIS; download from:
      http://www.oasis-open.org/specs/soextblx.dtd
      Note that the FPI in soextblx.dtd refers to itself as 'calstblx'.
      That convention has been followed here.
-->
<!-- create content for title element in table -->
<!ENTITY % title "<!ELEMENT title (#PCDATA | b | i | u | sup | sub | smallcaps)* >
">
%title;

<!-- override OASIS Exchange <entry> model -->
<!ENTITY % tbl.entry.mdl "(#PCDATA | b | i | u | sup | sub | smallcaps | br
      | patcit | nplcit | bio-deposit | crossref | img
      | dl | ul | ol | chemistry | maths)* ">

<!-- import OASIS Exchange model -->
<!ENTITY % calstblx PUBLIC "-//OASIS//DTD XML Exchange Table Model 19990315//EN"
      "soextblx.dtd">
%calstblx;
<!--
*****
* SECTION II - DTD
*****

APPLICATION-BODY

PCT Art 3(2) states
"(2) An international application shall contain, as specified in this Treaty and
the Regulations, a request, a description, one or more claims, one or more drawings
(where required), and an abstract."
The Request is dealt with by a separate DTD since it will be handled by form
filling software and requires different processing later.
The main application will be authored by the applicant as one word processor file,
the order follows general practice today.
The sequence list (although part of the description) is a separate sub-document
which will reference an ST.25 compliant file.

Attributes:
lang           = language of application - use ISO639 language code
dtd-version    = dtd version number
file           = filename of the whole application
id             = unique id for this application - could be file name
status        = status of the application; values: new = new application
id             = an identifier for this application (could be filename)
country       = WIPO ST.3 code for application
file-reference-id = applicant's or agent's file reference, if any

-->
<!ELEMENT application-body (doc-page+ | (description , claims , abstract? ,
drawings?))>

<!ATTLIST application-body id ID #IMPLIED
                           lang CDATA #REQUIRED
                           dtd-version CDATA #IMPLIED
                           file CDATA #IMPLIED
                           file-reference-id CDATA #IMPLIED
                           country CDATA #REQUIRED
                           status CDATA #IMPLIED >

<!--
Drawings: PCT Article 7 / Rule 7
Drawings shall be required when they are necessary for the understanding of the
invention.

```

```
Recommended id = 'draw'

-->
<!ELEMENT drawings (doc-page+ | figure+)>

<!ATTLIST drawings  id      ID      #IMPLIED
                    lang    CDATA   #IMPLIED
                    status  CDATA   #IMPLIED >

<!--
  A drawing (figure), necessary for the understanding of the invention

  Recommended id = f0001, f0002, etc.

-->
<!ELEMENT figure (img)>

<!ATTLIST figure  id      ID      #IMPLIED
                 num      CDATA   #REQUIRED
                 figure-labels CDATA   #IMPLIED
                 color (color | bw) #IMPLIED>

<!--
  ABSTRACT: PCT Rule 8
  (INID 57, ST.32:B570)
  A concise summary of the disclosure, 50-150 words.

  Recommended id = 'abst' or 'abst0001' for multiple abstracts

-->
<!ELEMENT abstract (doc-page+ | (abst-problem , abst-solution) | p+)>

<!ATTLIST abstract  id      ID      #IMPLIED
                   lang    CDATA   #IMPLIED
                   status  CDATA   #IMPLIED >

<!--
  The solution to the alleged problem that the invention purports to solve.

  Recommended id = 'abss'

-->
<!ELEMENT abst-solution (p+)>

<!ATTLIST abst-solution  id ID #IMPLIED >

<!--
  The alleged problem that the invention purports to solve

  Recommended id = 'absp'

-->
<!ELEMENT abst-problem (p+)>

<!ATTLIST abst-problem  id ID #IMPLIED >

<!--
  Claims:
  the claims shall define the matter sought for patent and be supported by the
  description.

  Recommended id = 'claim' or 'claim0001' for multiple claims

-->
<!ELEMENT claims (doc-page+ | claim+)>

<!ATTLIST claims  id      ID      #IMPLIED
                 lang    CDATA   #IMPLIED
                 claim-type CDATA   #IMPLIED
```



```
status CDATA #IMPLIED >

<!--
Defines the matter for which protection is sought
See PCT Rule 6:
  6.1.a: 'the number of claims shall be reasonable in consideration of what is
         being claimed.'
  6.1.b: 'if there are several claims, they shall be numbered consecutively in
         Arabic numerals.'

Recommended id values
  If parent element is claims and there is only ONE set of claims:
    id = c0001, c0002, etc.;num = 0001, 0002, etc.
  If parent element is amended-claims and there is only ONE set then:
    id = ac0001, ac0002, etc.;num = 0001, 0002, etc.
  If parent element is claims and there are MULTIPLE sets of claims then:
    id = c01.0001, c01.0002, etc.;num = 0001, 0002, etc.
    id = c02.0001, c02.0002, etc.;num = 0001, 0002, etc.
  If parent element is amended-claims and there are MULTIPLE sets of
  amended-claims then:
    id = ac01.0001, ac01.0002, etc.;num = 0001, 0002, etc.

-->
<!ELEMENT claim (claim-text+)>

<!ATTLIST claim id ID #IMPLIED
               num CDATA #REQUIRED
               claim-type CDATA #IMPLIED >

<!--
Reference to a claim

-->
<!ELEMENT claim-ref (#PCDATA)>

<!ATTLIST claim-ref idref IDREFS #REQUIRED >

<!--
Description:
The description must disclose the invention in a manner sufficiently clear and
complete for it to be carried out by a person skilled in the art (Rule 5).

Recommended id = 'desc'

-->
<!ELEMENT description (doc-page+ | (invention-title? , (technical-field |
background-art | disclosure | summary-of-invention | description-of-drawings |
description-of-embodiments | best-mode | mode-for-invention | industrial-
applicability | reference-signs-list | reference-to-deposited-biological-material |
sequence-list-text | citation-list | (heading* , p+)+))>

<!ATTLIST description id ID #IMPLIED
                    lang CDATA #IMPLIED
                    status CDATA #IMPLIED >

<!--
-->
<!ELEMENT citation-list (patent-literature | non-patent-literature | (heading* ,
p*))+>

<!ATTLIST citation-list id ID #IMPLIED >
<!--
-->
<!ELEMENT non-patent-literature (heading* , p+)+>

<!ATTLIST non-patent-literature id ID #IMPLIED >
<!--
-->
<!ELEMENT patent-literature (heading* , p+)+>

<!ATTLIST patent-literature id ID #IMPLIED >
```

```
<!--
Sequence listing free text
WIPO ST.25:
"36. Where the sequence listing part of the description contains free text,
any such free text shall be repeated in the main part of the description
in the language thereof.
It is recommended that the free text in the language of the main part of the
description be put in a specific section of the description called "Sequence
Listing Free Text".

Recommended id = 'seqt'

-->
<!ELEMENT sequence-list-text (heading* , p+)+>

<!ATTLIST sequence-list-text id ID #IMPLIED >
<!--
-->
<!ELEMENT reference-to-deposited-biological-material (heading* , p+)+>

<!ATTLIST reference-to-deposited-biological-material id ID #IMPLIED >
<!--
-->
<!ELEMENT reference-signs-list (heading* , p+)+>

<!ATTLIST reference-signs-list id ID #IMPLIED >

<!--
Article 33(4): "For purposes of the international preliminary examination,
a claimed invention shall be considered industrially applicable if, according to
its nature, it can be made or used (in the technological sense) in any kind of
industry.

Recommended id = 'inap'

-->
<!ELEMENT industrial-applicability (heading* , p+)+>

<!ATTLIST industrial-applicability id ID #IMPLIED >

<!--
PCT Rule 5.1(a)(vi): "The description shall...indicate explicitly, when it is not
obvious from the description or nature of the invention, the way in which the
invention is capable of exploitation in industry and the way in which it can be
made and used..."

Recommended id = 'mode'

-->
<!ELEMENT mode-for-invention (heading* , p+)+>

<!ATTLIST mode-for-invention id ID #IMPLIED
mode-num CDATA #IMPLIED >

<!--
The best mode contemplated by the applicant for carrying out the invention
claimed.

Recommended id = 'bmod'

-->
<!ELEMENT best-mode (heading* , p+)+>

<!ATTLIST best-mode id ID #IMPLIED >
<!--
-->
<!ELEMENT description-of-embodiments (embodiments-example | (heading* , p*)+)+>

<!ATTLIST description-of-embodiments id ID #IMPLIED >
```

```
<!--  
-->  
<!ELEMENT embodiments-example (heading* , p+)+>  
  
<!ATTLIST embodiments-example id ID #IMPLIED  
ex-num CDATA #IMPLIED >  
  
<!--  
Brief description of the drawings (Rule 5.1(a)(iv)  
  
Recommended id = 'desd'  
  
-->  
<!ELEMENT description-of-drawings (heading* , p+)+>  
  
<!ATTLIST description-of-drawings id ID #IMPLIED >  
<!--  
-->  
<!ELEMENT summary-of-invention (tech-problem | tech-solution | advantageous-effects  
| (heading* , p*)+)+>  
  
<!ATTLIST summary-of-invention id ID #IMPLIED >  
  
<!--  
Disclosure of the invention with sub-headings:  
technical problem;  
technical solution;  
advantageous effects (of the invention);  
  
Recommended id = 'disc'  
  
-->  
<!ELEMENT disclosure ((tech-problem | tech-solution | advantageous-effects)* |  
(heading* , p+)+)>  
  
<!ATTLIST disclosure id ID #IMPLIED >  
  
<!--  
advantageous effects of the invention (PCT Rule 5.1(a)(iii)  
  
Recommended id = 'adve'  
  
-->  
<!ELEMENT advantageous-effects (heading* , p+)+>  
  
<!ATTLIST advantageous-effects id ID #IMPLIED >  
  
<!--  
The solution to the problem that the invention purports to solve.  
(PCT Rule 5.1(a)(iii)  
  
-->  
<!ELEMENT tech-solution (heading* , p+)+>  
  
<!ATTLIST tech-solution id ID #IMPLIED >  
  
<!--  
The problem the invention purports to solve (Rule 5.1(a)(iii)  
  
-->  
<!ELEMENT tech-problem (heading* , p+)+>  
  
<!ATTLIST tech-problem id ID #IMPLIED >  
  
<!--  
Background art, background of the invention.  
  
Recommended id = 'bart'  
  
-->
```

```
<!ELEMENT background-art (heading* , p+)+>

<!ATTLIST background-art id ID #IMPLIED >

<!--
PCT Rule 5.1:
(a) The description shall first state the title of the invention as appearing
in the request and shall:
(i) specify the technical field to which the invention relates
-->
<!ELEMENT technical-field (heading* , p+)+>

<!ATTLIST technical-field id ID #IMPLIED >

<!--
Paragraph

Recommended id = p0001, p0002, etc. num = 0001, 0002, etc.

Note: paragraphs may occur in sections other than the description and at
different times eg. for the abstract, in this case use for example "p0001a";
amended claims: "p0001ac", etc.
-->
<!ELEMENT p (#PCDATA | b | i | u | o | sup | sub | smallcaps | br | pre | dl | ul |
ol | crossref | figref | patcit | nplcit | bio-deposit | img | chemistry | maths |
tables | table-external-doc)*>

<!ATTLIST p id ID #IMPLIED
num CDATA #REQUIRED >

<!--
References a stand-alone table authored with the table-external DTD.
-->
<!ELEMENT table-external-doc (#PCDATA)>

<!ATTLIST table-external-doc id ID #IMPLIED
file CDATA #REQUIRED
lang CDATA #IMPLIED
carriers (internal-electronic |
external-electronic |
paper ) #IMPLIED
external-type (math |
chemistry |
program-listing |
other ) #IMPLIED
status CDATA #IMPLIED >

<!--
TABLES
This is image data or coded according to OASIS Exchange model with modified cell
'entry' content.

Recommended id = tabl0001, tabl0002, etc.
-->
<!ELEMENT tables (img | table)>

<!ATTLIST tables id ID #IMPLIED
num CDATA #REQUIRED >

<!--
Definition list

Recommended id = ddis0001, ddis0002, etc.
-->
<!ELEMENT dl (dt , dd)+>
```


This is a pointer to an external DTD for chemical markup - to be determined.
For EPO probably CML; <http://www.xml-cml.org/>

```
-->
<!ELEMENT chem EMPTY>

<!ATTLIST chem  id          ID          #IMPLIED
                file        CDATA      #REQUIRED
                chem-type   CDATA      #IMPLIED >

<!--
Ordered Lists:
attribute 'ol-style'

Recommended use:
  1  arabic numbers      1, 2, 3, ...
  a  lower alpha        a, b, c, ...
  A  upper alpha        A, B, C, ...
  i  lower roman        i, ii, iii, ...
  I  upper roman        I, II, III, ...

-->
<!ELEMENT ol (li+)>

<!ATTLIST ol  id          ID          #IMPLIED
              compact      (compact ) #IMPLIED
              ol-style    CDATA      #IMPLIED >

<!--
Image data
Image is used for any kind of image: art work, figures, complex work units
(math, tables, chemistry), etc.

Recommended:
  id          = i0001, i0002, etc.
  he, wi      = "11" - milimeters - height, width;
  file        = file name, location; label - not used;
  alt         = alternate text if image not shown;
  img-content = drawing is the default;
  img-format  = common will be tiff, st33 and st35 in for backward compatilby
               and, later, publication.
  orientation = orientation of the image (portrait | landscape).
               Default is portrait
  inline      = (yes | no).
               Whether the image is to be presented inline or separated by line
               breaks. Default is no.

-->
<!ELEMENT img EMPTY>

<!ATTLIST img  id          ID          #IMPLIED
              he          CDATA      #REQUIRED
              wi          CDATA      #REQUIRED
              file        CDATA      #REQUIRED
              alt         CDATA      #IMPLIED
              img-content (drawing |
                          photograph |
                          character |
                          dna |
                          undefined |
                          chem |
                          table |
                          math |
                          program-listing |
                          flowchart |
                          graph ) 'drawing'
              img-format  (jpg | tif | st33 | st35 ) #REQUIRED
              orientation (portrait | landscape ) 'portrait'
              inline      (yes | no ) 'no' >
```

```

<!--
  A reference to a figure;
  e.g., "...as shown in <figref idref='f0001'>figure<b>1</b></figref>..."
-->
<!ELEMENT figref (#PCDATA | b | i | u | o | sup | sub | smallcaps)*>

<!ATTLIST figref  idref IDREFS  #IMPLIED
                  num   CDATA   #IMPLIED >

<!--
  Cross reference to any other element with an identifier (id)
-->
<!ELEMENT crossref (#PCDATA | b | i | u | o | sup | sub | smallcaps)*>

<!ATTLIST crossref  idref IDREF  #REQUIRED >

<!--
  Biological deposit citation (US EFS: biological-deposit)
  (INID 83, ST.32:B830)
  According to PCT Rule 13bis, EPC Rule 28
  This covers all bio data references long and short within the description and/or
  claims

  Recommended id = biod0001, biod0002, etc.
-->
<!ELEMENT bio-deposit (depository , bio-accno , date? , term? , dtext?)>

<!ATTLIST bio-deposit  id   ID      #IMPLIED
                       num  CDATA   #REQUIRED
                       url  CDATA   #IMPLIED
                       dnum CDATA   #IMPLIED >

<!--
  Non-Patent Literature (NPL) CITation;

  Notes:
  This can be free text data without any structure (#PCDATA) which is NOT
  recommended
  or it can be highly structured data which is marked up according to ST.14 and
  ISO 690 layout;

  This part of the DTD has used many different sources for element names and DTD
  structure and reference:
  AACR2 / MARC
  ISO 12083 - Electronic manuscript prep. and markup. DTD
  Association of American Publishers (AAP) Z39.59 DTD
  European Working Group for SGML (EWS) MAJOUR DTD
  SuperJournal Full Article DTD
  www.superjournal.ac.uk/sj
  Elsevier DTD
  Medline DTD (NLM)

  Attributes (recommended):
  id - ncit0001, ncit0002, etc
  num - 0001, 0002
  npltype - The TYPE of citation is office specific (recommended):;
    A - Abstract citation of no specific kind
    B - Book citation
    I - Biological abstract citation
    C - Chemical abstracts citation
    E - Database citation
    D - Derwent citation
    P - Patent cited within NPL group
    J - Patent Abstracts of Japan citation (REC 067)
    S - Serial / Journal / Periodical citation
    W - World Wide Web / Internet search citation
  medium - the type of medium

```

```
e.g., CD (CD-ROM), MT (Magnetic Tape), DISK, ONLINE
file - file name on local systems eg. XP number in EPO
url - where possible give full web link to document

-->
<!ELEMENT nplcit ((text | article | book | online | othercit) , rel-passage*)>

<!ATTLIST nplcit id ID #IMPLIED
                num CDATA #IMPLIED
                lang CDATA #IMPLIED
                file CDATA #IMPLIED
                npl-type CDATA #IMPLIED
                medium CDATA #IMPLIED
                url CDATA #IMPLIED >

<!--
  Reference number (general); for the EPO this is the XP number
-->
<!ELEMENT refno (#PCDATA)>

<!ATTLIST refno id ID #IMPLIED >

<!--
  Classification code; e.g., ipc, dewey etc.
-->
<!ELEMENT class (#PCDATA)>

<!ATTLIST class class-type CDATA #IMPLIED >

<!--
  Subordinate responsibility; e.g., editor, translator, etc.
-->
<!ELEMENT subname (%name_group; | addressbook)>

<!ATTLIST subname subname-type (editor | translator | other-subname-type )
'editor' >

<!--
  Author

  Prime responsibility for the work
  there is no distinguishing between personal and corporate authors
  <author> followed by name or addressbook information
  use the ID attribute if, for example, there is a need to distinguish between
  multiple authors.
  Can also include affiliation details

  Recommended id = auth0001, auth0002, etc.
-->
<!ELEMENT author (%name_group; | addressbook)>

<!ATTLIST author id ID #IMPLIED >

<!--
  ADDRESSBOOK GROUP:
  Holds name and contact information for individuals/organizations

  The LANG attribute is REQUIRED for certain document types,
  e.g., the JPO PCT Request where names and addresses may be repeated in two
  different languages. If no structure possible use text.
-->
<!ELEMENT addressbook ((%name_group; , address , phone* , fax* , email* , url* ,
ead* , dtext?) | text)>

<!ATTLIST addressbook id ID #IMPLIED
```



```
lang CDATA #IMPLIED >

<!--
  Email address

  Attribute:
    email-purpose  reason for which email address is included:
informal          for informal contact only
general           for any type of communication
confirmation     any type of communication, but formal messages followed up
                  by conventional mailing (to the extent offered)
main             where applicant desires this address to be used as primary
                  means of contact as a replacement of the use of conventional
                  post (to the extent that an Office offers this)
                  the default value depends on e-mail policies of the relevant Office.
                  For PCT purposes as at 1 July 2008, no attribute being included is
                  equivalent to 'informal'

-->
<!ELEMENT email (#PCDATA)>

<!ATTLIST email  email-purpose  (informal | general | advance | main ) #IMPLIED >

<!--
  PATENT CITATIONS:
  (ST.32:B561)
  Patent Citation within abstract, description or claims.
  For patent citations within Search Report see Search Report DTD

  Notes:
  Tags arranged according to WIPO ST.14 order.
  This can be free text data without any structure (text).

  Example:
  <patcit id='pcit0001' dnum='US4793675A' dnum-type='publication number'>
    <document-id>
      <country>US</country>
      <doc-number>4793675</doc-number>
      <kind>A</kind>
      <name>Handa</name>
      <date>19881227</date>
    </document-id>
  </patcit>

  Note:
  It is NOT expected that the applicant will create the tagged data
  - it could be generated from a 'pull down' data entry form
  or generated from internal SR databases

  Attributes (recommended):
  id   - pcit0001, pcit0002, etc.
  num  - 0001, 0002, etc.
  dnum - use full number as one string, eg, "US5401234A";
  url  - where possible give full web link to patent
  file - file name eg. if stored on local systems
  dnum-type - type of document number
          (e.g., application number, publication number)

-->
<!ELEMENT patcit (text | (document-id , rel-passages*))>

<!ATTLIST patcit  id          ID          #IMPLIED
                  num        CDATA       #IMPLIED
                  dnum       CDATA       #IMPLIED
                  dnum-type  CDATA       #IMPLIED
                  file       CDATA       #IMPLIED
                  url        CDATA       #IMPLIED >

<!--
  Document identification refers to patents (and patent applications) only.
-->
```

```

See WIPO ST.14

-->
<!ELEMENT document-id (country , doc-number , kind? , name? , date?)>
<!ATTLIST document-id lang CDATA #IMPLIED >

<!--
Name:
If no distinction or detail can be given.
Also to be used for: personal (natural person) and corporate (legal entity) names
-->
<!ELEMENT name (#PCDATA)>
<!ATTLIST name name-type (legal | natural ) #IMPLIED >

<!--
This element is one method to identify content consisting of text objects that
require preservation (pre) of their whitespace in order to preserve internal
logical relationships.
(e.g., sequence listing fragments, computer program listings)
-->
<!ELEMENT pre (#PCDATA)>
<!ATTLIST pre id ID #IMPLIED
             xml:space (preserve | default ) #IMPLIED
             listing-type (sequence | program-listing | other ) #REQUIRED
>

<!--
Heading text; see Rule 5. Recommended id = h0001, h0002, etc.
-->
<!ELEMENT heading (#PCDATA | b | i | u | o | sup | sub | smallcaps)*>
<!ATTLIST heading level (1 | 2 | 3 ) #IMPLIED
                 id ID #IMPLIED >

<!--
Title of the Invention:
(INID 54, ST.32:B540/B542)

Preferably two to seven words when in English or translated into English and
precise. (Rule 4.3)

Recommended id = 'invt'
-->
<!ELEMENT invention-title (#PCDATA | b | i | u | o | sup | sub)*>
<!ATTLIST invention-title id ID #IMPLIED
                        lang CDATA #IMPLIED >

<!--
Underscore: style - single is default
-->
<!ELEMENT u (#PCDATA | b | i | smallcaps | sup | sub)*>
<!ATTLIST u style (single | double | dash | dots ) 'single' >

<!--
Overscore: style - single is default
-->
<!ELEMENT o (#PCDATA | b | i | smallcaps | sup | sub)*>
<!ATTLIST o style (single |

```

```

double |
dash |
dots |
leftarrow |
rightarrow |
leftrightarrow ) 'single' >

<!--
doc-page - DOCUMENT or PAGE

This is primarily to be used when data for the whole or major sections of an
application are in image format OR other formats such as pdf.

Page range attributes are given when required
pp - page range
ppf - first page
ppl - last page (for pdf).
The 'img' may also be used for complete pages, e.g. in drawings

Recommended id = docp0001, docp0002, etc.
Attributes "he" and "wi" mean height and width.

-->
<!ELEMENT doc-page EMPTY>

<!ATTLIST doc-page id ID #IMPLIED
he CDATA #REQUIRED
wi CDATA #REQUIRED
type (jpg | pdf | tif ) #REQUIRED
alt CDATA #IMPLIED
pp CDATA #IMPLIED
ppf CDATA #IMPLIED
ppl CDATA #IMPLIED
file CDATA #REQUIRED
ocr CDATA #IMPLIED
color (color | bw ) #IMPLIED
orientation (portrait | landscape ) 'portrait' >

<!--
The text of the claim; also used for sub-para indentation

-->
<!ELEMENT claim-text (#PCDATA | claim-text | claim-ref | b | i | u | o | sup | sub
| smallcaps | br | pre | crossref | figref | img | chemistry | maths)*>

<!--
Definition description

-->
<!ELEMENT dd (#PCDATA | b | i | u | o | sup | sub | smallcaps | br | pre | patcit |
nplcit | bio-deposit | crossref | figref | img | ul | ol | chemistry | maths)*>

<!--
Identifies the period of time during which the depository must be able to furnish
samples of the biological material.

-->
<!ELEMENT term (#PCDATA)>

<!--
Biological accession number:
(ST.32:B831)
The identification assigned to the biological material by the depository

-->
<!ELEMENT bio-accno (#PCDATA)>

```

```
<!--
  Information regarding the facility storing the biological deposit.
  (ST.32:B832)

-->
<!ELEMENT depositary (#PCDATA | address)*>

<!--
  Other citations - free form

-->
<!ELEMENT othercit (#PCDATA | b | i | u | o | sup | sub)*>

<!--
  Online citation
  Revised according to ISO-690-2 - Electronic documents and parts thereof.
  Please refer to this standard for definitions and examples.
  See: http://www.nlc-bnc.ca/iso/tc46sc9/standard/690-2e.htm#Contents
  The tagging in fact is a mixture of article and book tags together with
  specific electronic source tags.
  'Online' is taken to mean any kind of electronic documentation:
  databases, internet, CD-Roms, DVD, email, etc

EXAMPLES:;

  Kirk-Othmer Encyclopedia of Chemical Technology [online].
  3rd ed. New York : John Wiley, 1984 [cited 3 January 1990].
  Available from: DIALOG Information Services, Palo Alto (Calif.).

  <nplcit id='ncit1' num='0001' type='E' medium='online'>
    <online>
      <online-title>Kirk-Othmer Encyclopedia of Chemical Technology
      </online-title>
      <edition>3rd ed.</edition>
      <imprint>
        <address>
          <text>New York</text>
        </address>
        <name>John Wiley</name>
        <pubdate>19840000</pubdate>
      </imprint>
      <avail>dialog information services, palo alto (calif.).</avail>
      <datecit>
        <date>19900103</date>
      </datecit>
    </online>
  </nplcit>

* Article on Internet:
  Clark, Carol. On the Threshold of a Brave New World.
  In Blueprint of the Body [online].
  CNN.com, 2000. [cited 24 August 2000;10:25 EST]. In-depth specials.
  Available from: [http://www.cnn.com/SPECIALS/2000/genome/story/overview/]

  <nplcit id='ncit1' num='0002' type='E' medium='online'>
    <online>
      <author>
        <name>Clark, Carol</name>
      </author>
      <online-title>On the Threshold of a Brave New World</online-title>
      <imprint>
        <name>CNN.com, 2000</name>
      </imprint>
      <series>
        <text>In-depth specials</text>
      </series>
    </online>
  </nplcit>
```

```
<avail>http://www.cnn.com/SPECIALS/2000/genome/story/</avail>
<datecit>
  <date>20000824; 10:25 est</date>
</datecit>
</online>
</nplcit>

* Personal communication (e-mail)

Thacker, Jane. MPEG-21 project stream on digital item identification [online].
Message to: [iso.tc46.sc9@nlc-bnc.ca]. 3 October 2000; 13:33 EST [cited 6
October 2000; 13:10 EST].
Message-ID: [002f01c02d60$051a64a0$22a2580c@vaio]. Personal communication.

<nplcit id='ncit3' num='0003' type='E' medium='online'>
  <online>
    <author>
      <name>Thacker, Jane</name>
    </author>
    <online-title>MPEG-21 project stream on digital item identification
    </online-title>
    <subname>
      <name>Message to: <iso.tc46.sc9@nlc-bnc.ca></name>
    </subname>
    <pubdate>3 October 2000; 13:33 EST</pubdate>
    <notes>Personal communication</notes>
    <avail>Message-ID: <002f01c02d60$051a64a0$22a2580c@vaio></avail>
    <datecit><date>6 october 2000; 13:10 EST</date></datecit>
  </online>
</nplcit>

-->
<!ELEMENT online (text | (author* , online-title* , hosttitle? , subname* ,
edition? , (serial | book)? , imprint? , pubdate? , history? , series? , hostno? ,
location? , notes? , avail , class* , keyword* , cpyrt? , issn? , isbn? , datecit?
, srchterm* , srchdate? , refno* , vid? , ino? , doi? , absno?))>

<!--
  Date of search/retrieval  YYYYMMDD
-->
<!ELEMENT srchdate (date)>

<!--
  Search terms
-->
<!ELEMENT srchterm (#PCDATA)>

<!--
  Date cited - date on which the citation was cited.
  May be different from srchdate below
-->
<!ELEMENT datecit (date)>

<!--
  Availability and access - REQUIRED use for URL, online database, ftp address,
  email, etc.;
  e.g., Available from Internet: http://www.epoline.org
  Available from DIALOG Information Systems, Palo Alto (Calif.)
-->
<!ELEMENT avail (#PCDATA)>
```

```
<!--
  Numeration within host document
-->
<!ELEMENT hostno (#PCDATA)>

<!--
  History of the article (not serial)
-->
<!ELEMENT history (text | (received | accepted | revised | misc))>

<!--
  Miscellaneous information relating to the history of the article; see ISO 12083
-->
<!ELEMENT misc (#PCDATA | date)*>

<!--
  Date article was revised
-->
<!ELEMENT revised (date)>

<!--
  Date article was accepted
-->
<!ELEMENT accepted (date)>

<!--
  Date article was received
-->
<!ELEMENT received (date)>

<!--
  Title of the host document/database
-->
<!ELEMENT hosttitle (#PCDATA)>

<!--
  The title of the electronic resource
-->
<!ELEMENT online-title (#PCDATA)>

<!--
  Article citations within a 'host' document

  After patent citations the most common citations are articles within serials
  (periodicals, magazines), books and electronic (eg. internet) sources.
  This is a very complex and varied area to standardise. The tag set below is drawn
  from a number of sources as is the order of the tags (which in any case can be
  changed depending on the stylesheet used).;

  The order of tags is that of WIPO ST.14 / ISO 690 layout.
  DROP, J.G.  Integrated Circuit Personalization at the Module Level. IBM Tech.
  Dis. Bull.  October 1974, Vol. 17, No. 5, p. 1344 and 1345.
  [XPnnnnnnnnnnn].
```

```
<nplcit id='ncit1' num='0012' type='S' file='XP1234456'>
  <article>
    <author>
      <name>DROP, J.G.</name>
    </author>
    <atl>Integrated Circuit Personalization at the Module Level</atl>
    <serial>
      <sertitle>IBM Tech. Dis. Bull.</sertitle>
      <pubdate>19741000</pubdate>
      <vid>17</vid>
      <ino>5</ino>
    </serial>
    <location>
      <pp>1344 and 1345</pp>
    </location>
    <refno id='XP1'>XP1234456</refno>
  </article>
</nplcit>
```

Note: it is NOT expected that the applicant will create the tagged data
- it can be generated from a 'pull down' data entry form (eg. in Word) or
generated from internal SR databases

```
-->
<!ELEMENT article (text | (author* , atl? , subname* , (serial | book) , absno? ,
location? , class* , keyword* , cpyrt? , artid? , refno*))>
```

```
<!--
Article unique ID - assigned by a publisher to an article
```

```
-->
<!ELEMENT artid (#PCDATA)>
```

```
<!--
Book citation
In the order specified by WIPO ST.14 and ISO 690 and AACR2 rules for layout

WALTON, Herrmann. Microwave quantum theory.
London : Sweet and Maxwell, 1973. ISBN 0123456789.
Vol.2, p. 138 to 192.
```

```
<nplcit id='ncit12' num='0013' type='b'>
  <book>
    <author>
      <name>WALTON, Herrman</name>
    </author>
    <book-title>Microwave quantum theory</book-title>
    <imprint>
      <address>
        <text>London</text>
      </address>
      <name>Sweet and Maxwell</name>
      <pubdate>19730000</pubdate>
    </imprint>
    <location>
      <pp>138 to 192</pp>
    </location>
    <isbn>0-1234-568-9</isbn>
  </book>
</nplcit>
```

```
-->
<!ELEMENT book (text | (author* , (book-title+ | conference) , (subtitle? ,
subname* , edition? , imprint? , descrip? , series? , absno? , location* , isbn* ,
pubid? , vid? , bookno? , notes? , class* , keyword* , cpyrt? , refno* , doi? ,
ino? , issn?))>
```

```
<!--  
  Keyword; e.g., from a Thesaurus or class. scheme  
  (ST.32:B550)  
-->  
<!ELEMENT keyword (#PCDATA)>  
  
<!--  
  Book number  
-->  
<!ELEMENT bookno (#PCDATA)>  
  
<!--  
  Location within the cited work  
-->  
<!ELEMENT location (text | (serpart? , sersect? , chapter? , pp? , column? , para?  
, line?))>  
  
<!--  
  Referenced line within cited work  
-->  
<!ELEMENT line (#PCDATA | linef | line1)*>  
  
<!--  
  Cited document line, last  
-->  
<!ELEMENT line1 (#PCDATA)>  
  
<!--  
  Cited document line, first  
-->  
<!ELEMENT linef (#PCDATA)>  
  
<!--  
  Referenced paragraph within cited work  
-->  
<!ELEMENT para (#PCDATA | paraf | paral)*>  
  
<!--  
  Cited paragraph, last  
-->  
<!ELEMENT paral (#PCDATA)>  
  
<!--  
  Cited paragraph, first  
-->  
<!ELEMENT paraf (#PCDATA)>  
  
<!--  
  Cited document column numbers  
-->  
<!ELEMENT column (#PCDATA | colf | coll)*>
```



```
<!--  
  Cited document column, last  
-->  
<!ELEMENT coll (#PCDATA)>  
  
<!--  
  Cited document column, first  
-->  
<!ELEMENT colf (#PCDATA)>  
  
<!--  
  Cited document page numbers  
-->  
<!ELEMENT pp (#PCDATA | ppf | ppl)*>  
  
<!--  
  Cited document page, last  
-->  
<!ELEMENT ppl (#PCDATA)>  
  
<!--  
  Cited document page , first  
-->  
<!ELEMENT ppf (#PCDATA)>  
  
<!--  
  Chapter; e.g., in a book.  Example: Chapter 2  
-->  
<!ELEMENT chapter (#PCDATA)>  
  
<!--  
  Serial section  
-->  
<!ELEMENT sersect (#PCDATA)>  
  
<!--  
  Part within a serial  
-->  
<!ELEMENT serpart (#PCDATA)>  
  
<!--  
  Abstract number  
-->  
<!ELEMENT absno (#PCDATA)>  
  
<!--  
  Series statement  
-->  
<!ELEMENT series (text | (mst , msn? , issn?))>
```

```
<!--  
  Monographic series number  
-->  
<!ELEMENT msn (#PCDATA)>  
  
<!--  
  Monographic series title  
-->  
<!ELEMENT mst (#PCDATA)>  
  
<!--  
  Edition statement  
  (ST.32:B516)  
-->  
<!ELEMENT edition (#PCDATA)>  
  
<!--  
  Book subtitle  
-->  
<!ELEMENT subtitle (#PCDATA)>  
  
<!--  
  CONFERENCE GROUP / CITATION  
  There is no standard way of citing conference proceedings; date of the conf. may  
  come before or after place, for example. The tags are specified in a set order  
  where it is not possible or correct then simply use <text>  
-->  
<!ELEMENT conference (text | (conftitle , confdate? , confno? , confplace? ,  
  confsponsor*))>  
  
<!--  
-->  
<!ELEMENT confdate (date | (sdate , edate))>  
  
<!--  
  Conference sponsor  
-->  
<!ELEMENT confsponsor (#PCDATA | addressbook)*>  
  
<!--  
  Conference place  
-->  
<!ELEMENT confplace (#PCDATA | address)*>  
  
<!--  
  Conference number  
-->  
<!ELEMENT confno (#PCDATA)>
```

```
<!--  
  Conference title  
-->  
<!ELEMENT conftitle (#PCDATA)>  
  
<!--  
  The title of the cited book  
-->  
<!ELEMENT book-title (#PCDATA)>  
  
<!--  
  Serial citation data:  
  This describes the volume or issue as a whole and not a particular article within  
  it.  
-->  
<!ELEMENT serial (sertitle , alttitle? , subname* , issue? , imprint? , pubdate? ,  
descrip? , notes? , isbn? , issn? , pubid? , vid? , ino? , cpyrt? , doi?)>  
  
<!--  
-->  
<!ELEMENT doi (#PCDATA)>  
  
<!--  
  Copyright info.  Copyright of publisher of serial  
-->  
<!ELEMENT cpyrt (#PCDATA)>  
  
<!--  
  Issue number  
-->  
<!ELEMENT ino (#PCDATA)>  
  
<!--  
  Volume id/number  
-->  
<!ELEMENT vid (#PCDATA)>  
  
<!--  
  Publisher's unique id  
-->  
<!ELEMENT pubid (#PCDATA)>  
  
<!--  
  International Standard Book Number  
-->  
<!ELEMENT isbn (#PCDATA)>  
  
<!--  
  International Standard Serial Number  
-->
```

```
<!ELEMENT issn (#PCDATA)>

<!--
  Notes about the journal; e.g. Continues Journal of XYZ 1910-1998, published in
  French and English, etc.
-->
<!ELEMENT notes (#PCDATA)>

<!--
  Physical description - generally NOT used in citations in pats; e.g., v., 27cm
-->
<!ELEMENT descrip (#PCDATA)>

<!--
  Imprint:
  Publication / creation data
  Place of publication : publisher, date(s) of publication usually only date of
  publication is used for journal citations
-->
<!ELEMENT imprint (text | (address? , name , pubdate*))>

<!--
  Publication date used in npl citations
-->
<!ELEMENT pubdate (#PCDATA | sdate | edate | time)*>

<!--
  Time; format HHMM
-->
<!ELEMENT time (#PCDATA)>

<!--
  End date used in pubdate
-->
<!ELEMENT edate (#PCDATA)>

<!--
  Start date used in pubdate
-->
<!ELEMENT sdate (#PCDATA)>

<!--
  Issue designation; e.g., Annual, 1971-, 1890-1972
-->
<!ELEMENT issue (#PCDATA)>

<!--
  Alternate title for serial; e.g. BMJ = British Medical Journal
-->
<!ELEMENT alttitle (#PCDATA)>
```

```
<!--  
  Serial title  
-->  
<!ELEMENT sertitle (#PCDATA)>  
  
<!--  
  Article title  
-->  
<!ELEMENT atl (#PCDATA)>  
  
<!--  
  Descriptive text  
-->  
<!ELEMENT dtext (#PCDATA)>  
  
<!--  
  Universal Resource Locator; e.g. www.wipo.int  
-->  
<!ELEMENT url (#PCDATA)>  
  
<!--  
  Fax number  
-->  
<!ELEMENT fax (#PCDATA)>  
  
<!--  
  Telephone number  
-->  
<!ELEMENT phone (#PCDATA)>  
  
<!--  
  Electronic address use for other than email  
-->  
<!ELEMENT ead (#PCDATA)>  
  
<!--  
  Address components:  
  Address formats differ from country to country  
  If no structure possible use text  
-->  
<!ELEMENT address (%address_group;)>  
  
<!--  
  Postal code or zip code  
-->  
<!ELEMENT postcode (#PCDATA)>  
  
<!--  
  Region of country; e.g., state, province, etc.  
-->  
<!ELEMENT state (#PCDATA)>
```

```
<!--  
  County, parish, department, etc (mainly UK, USA)  
-->  
<!ELEMENT county (#PCDATA)>  
  
<!--  
  City or town name  
-->  
<!ELEMENT city (#PCDATA)>  
  
<!--  
  Street may contain house number or name  
-->  
<!ELEMENT street (#PCDATA)>  
  
<!--  
  Building information in address; e.g., Hoffman building  
-->  
<!ELEMENT building (#PCDATA)>  
  
<!--  
  Address floor; e.g., 10th  
-->  
<!ELEMENT address-floor (#PCDATA)>  
  
<!--  
  Address room; e.g., Room 55B  
-->  
<!ELEMENT room (#PCDATA)>  
  
<!--  
  Post Office Box number  
-->  
<!ELEMENT pobox (#PCDATA)>  
  
<!--  
  Organizational mail code  
-->  
<!ELEMENT mailcode (#PCDATA)>  
  
<!--  
  Address, fifth line  
-->  
<!ELEMENT address-5 (#PCDATA)>  
  
<!--  
  Address, fourth line  
-->  
<!ELEMENT address-4 (#PCDATA)>
```

```
<!--  
  Address, third line  
-->  
<!ELEMENT address-3 (#PCDATA)>  
  
<!--  
  Address, second line  
-->  
<!ELEMENT address-2 (#PCDATA)>  
  
<!--  
  Address, first line  
-->  
<!ELEMENT address-1 (#PCDATA)>  
  
<!--  
  Registered number  
-->  
<!ELEMENT registered-number (#PCDATA)>  
  
<!--  
  Synonym  
-->  
<!ELEMENT synonym (#PCDATA)>  
  
<!--  
  Department, division, section, etc. name  
-->  
<!ELEMENT department (#PCDATA)>  
  
<!--  
  Organisation name or company name  
-->  
<!ELEMENT orgname (#PCDATA)>  
  
<!--  
  Role; e.g., President, Chairman, etc.  
-->  
<!ELEMENT role (#PCDATA)>  
  
<!--  
  SDOBI : Individual id  
-->  
<!ELEMENT iid (#PCDATA)>  
  
<!--  
  Name suffix (e.g., II, Jr., Dip., Ing., BA, etc.)  
-->  
<!ELEMENT suffix (#PCDATA)>
```

```
<!--
  Middle name(s) or initial(s)
-->
<!ELEMENT middle-name (#PCDATA)>

<!--
  First or given name(s), initial(s)
-->
<!ELEMENT first-name (#PCDATA)>

<!--
  Last, family, surname
-->
<!ELEMENT last-name (#PCDATA)>

<!--
  Title: e.g., Mr., Mrs., Dr. etc
-->
<!ELEMENT prefix (#PCDATA)>

<!--
  Relevant passage group within patent; most used in search reports
  - use text in abstract, description and claims
-->
<!ELEMENT rel-passage (text | (passage+ , (category , rel-claims?)*))>

<!--
  Relevant claims
-->
<!ELEMENT rel-claims (#PCDATA)>

<!--
  Category
  (ST.32:B563)
-->
<!ELEMENT category (#PCDATA)>

<!--
  Passage within the cited patent literature
-->
<!ELEMENT passage (#PCDATA)>

<!--
  Date: components of a date. Format: YYYYMMDD
-->
<!ELEMENT date (#PCDATA)>

<!--
  Document kind code; e.g., A1
  (INID 13, ST.32:B130)
```



```
-->
<!ELEMENT kind (#PCDATA)>

<!--
  The number of the referenced patent (or application) document
-->
<!ELEMENT doc-number (#PCDATA)>

<!--
  Country: use ST.3 country code; e.g. DE, FR, GB, NL, etc.
  Also includes EP, WO
-->
<!ELEMENT country (#PCDATA)>

<!--
  If no structure is possible, enter text (without markup)
-->
<!ELEMENT text (#PCDATA)>

<!--
  br - break, line break within a paragraph
-->
<!ELEMENT br EMPTY>

<!--
  Bold formatting for text
-->
<!ELEMENT b (#PCDATA | i | u | o | smallcaps | sup | sub)*>

<!--
  Italic formatting for text
-->
<!ELEMENT i (#PCDATA | b | u | o | smallcaps | sup | sub)*>

<!--
  Small capitals
-->
<!ELEMENT smallcaps (#PCDATA | b | u | i | o)*>

<!--
  Subscripted text
-->
<!ELEMENT sub (#PCDATA | b | u | i | o | sup2 | sub2)*>

<!--
  Superscripted text
-->
<!ELEMENT sup (#PCDATA | b | u | i | o | sup2 | sub2)*>

<!--
```

```
Subscripted text

-->
<!ELEMENT sub2 (#PCDATA | b | u | i | o)*>

<!--
  Superscripted text

-->
<!ELEMENT sup2 (#PCDATA | b | u | i | o)*>
```

3.4 Déclarations (règles 4.17 et 51bis.1.a)

```
<?xml version='1.0' encoding='UTF-8' ?>

<!ENTITY % name_group "((name | (prefix? , (last-name | orgname) , first-name? ,
middle-name? , suffix? , iid? , role? , orgname? , department? , synonym*)) ,
registered-number?)">

<!ENTITY % address_group "((address-1? , address-2? , address-3? , address-4? ,
address-5? , mailcode? , pobox? , room? , address-floor? , building? , street? ,
city? , county? , state? , postcode? , country) | text)">

<!--
*****
* declaration v1.6      2017  JULY
*****
* PUBLIC "-//WIPO//DTD DECLARATION 1.6//EN" "declaration-v1-6.dtd"
*****
* https://www.wipo.int/pct-safe/en/resources/1.15/declaration-v1-6.dtd
*****
* contact:
*   WIPO: Yuya USHIDA; yuya.ushida@wipo.int
*****
* revision history
*****
Asahi HASEBE: 01/07/17 incorporated changes from PFCs:
..changed version number from v1.5 to v1.6
..added attribute 'id' to lack-of-novelty, entitlement-to-claim-priority,
entitlement-to-be-granted-patent, signatory and matter-name
MO: 01/07/08 incorporated changes from PFCs:
..changed version number from v1.4 to v1.5
..added attribute 'email-purpose' to email (PFC08/006)
MO: 01/01/07 incorporated changes from PFCs:
..changed version number from v1.3 to v1.4
..implementation of PFC06/001
..changed element '(all-designations | all-designations-except-us | designated-
status)'
  to '(all-designations | all-designations-except-us | designated-status)?'
  in identity-of-inventor (PFC06/002)
..changed element '(all-designations | all-designations-except-us | designated-
status)'
  to '(all-designations | all-designations-except-us | designated-status)?'
  in matter (PFC06/002)
..changed element '(all-designations | designated-status)'
  to '(all-designations | designated-status)?' in lack-of-novelty (PFC06/002)
..added element 'sup' to u (PFC06/003)
..added element 'sup' to i (PFC06/003)
..added element 'sup' to b (PFC06/003)
..added element 'sub' to u (PFC06/003)
..added element 'sub' to i (PFC06/003)
..added element 'sub' to b (PFC06/003)
..added element 'o' to invention-title, b, i, sup, sup2, sub, sub2, heading, claim-
text,
```



```
<!--
  A signature represented by electronic means
-->
<!ELEMENT electronic-signature (basic-signature | enhanced-signature)>

<!ATTLIST electronic-signature  date          CDATA #REQUIRED
                                place-signed CDATA #IMPLIED >

<!--
  A TIFF image of a signature
-->
<!ELEMENT fax-image EMPTY>

<!ATTLIST fax-image  file CDATA #REQUIRED >

<!--
  Declaration as applicant's entitlement, as at the international filing date, to
  claim the priority of the earlier application, where the applicant is not the
  applicant who filed the earlier application or where the applicant's name has
  changed since the filing of the earlier application.
  (Rules 4.17(iii) and 51bis.1(a)(iii))
-->
<!ELEMENT entitlement-to-claim-priority (doc-page+ | (application-reference? ,
%name_group; , earlier-app-reference , matter+))>

<!ATTLIST entitlement-to-claim-priority  sequence CDATA #REQUIRED
                                         lang      CDATA #IMPLIED
                                         id       ID  #IMPLIED>

<!--
  Declaration as applicant's entitlement, as at the international filing date, to
  apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case
  where the declaration under Rule 4.17(iv) is not appropriate
-->
<!ELEMENT entitlement-to-be-granted-patent (doc-page+ | (application-reference? ,
%name_group; , matter+))>

<!ATTLIST entitlement-to-be-granted-patent  sequence CDATA #REQUIRED
                                             lang      CDATA #IMPLIED
                                             combined   (yes | no ) #IMPLIED
                                             id       ID  #IMPLIED>

<!--
  Section 212, 213.
  Attribute 'item':  reason for entitlement.  See Sections 212, 213 for values.
  i)  (name) of (address) is the inventor of the subject matter for which
      protection is sought by way of [the] [this] international application
  ii) (name) [is] [was] entitled as employer of the inventor, (inventor's name)
  iii) an agreement between... (name) and ... (name), dated...
  iv) an assignment from ... (name) to ...(name), dated...
  v)  consent from ... (name) in favor of ...(name), dated...
  vi) a court order issued by ... (name of court), effecting a transfer from
      ... (name) to...(name), dated...
  vii) transfer of entitlement from ...(name) to ...(name) by way of (specify
      kind of transfer), dated ...
  viii) the applicant's name changed from ...(name) to ...(name) on ...(date)
-->
<!ELEMENT matter ((date | matter-name | addressbook | court-name | kind-of-
transfer)+ , (all-designations | all-designations-except-us | designated-states?))>

<!ATTLIST matter  item    ( i | ii | iii | iv | v | vi | vii | viii | ix ) #IMPLIED
                  tense   (is | was ) #IMPLIED >

<!--
```

```
Declaration as to the identity of the inventor
(Rules 4.17(i) and 51bis.1(a)(i))

-->
<!ELEMENT identity-of-inventor (doc-page+ | (application-reference? , addressbook+
, (all-designations | all-designations-except-us | designated-states)?))>

<!ATTLIST identity-of-inventor  sequence CDATA #REQUIRED
                                lang      CDATA #IMPLIED
                                combined   (yes | no ) #IMPLIED >

<!--
doc-page - DOCument or PAGE

This is primarily to be used when data for the whole or major sections of an
application are in image format OR other formats such as pdf.

Page range attributes are given when required
  pp - page range
  ppf - first page
  ppl - last page (for pdf).
The 'img' may also be used for complete pages, e.g. in drawings

Recommended id = docp0001, docp0002, etc.
Attributes "he" and "wi" mean height and width.

-->
<!ELEMENT doc-page EMPTY>

<!ATTLIST doc-page  id          ID          #IMPLIED
                    he          CDATA #REQUIRED
                    wi          CDATA #REQUIRED
                    type        (jpg | pdf | tif ) #REQUIRED
                    alt         CDATA #IMPLIED
                    pp          CDATA #IMPLIED
                    ppf         CDATA #IMPLIED
                    ppl         CDATA #IMPLIED
                    file        CDATA #REQUIRED
                    ocr         CDATA #IMPLIED
                    color        (color | bw ) #IMPLIED
                    orientation  (portrait | landscape ) 'portrait' >

<!--
ADDRESSBOOK GROUP:
Holds name and contact information for individuals/organizations

The LANG attribute is REQUIRED for certain document types,
e.g., the JPO PCT Request where names and addresses may be repeated in two
different languages. If no structure possible use text.

-->
<!ELEMENT addressbook ((%name_group; , address , phone* , fax* , email* , url* ,
ead* , dtext?) | text)>

<!ATTLIST addressbook  id      ID          #IMPLIED
                      lang    CDATA #IMPLIED >

<!--
Email address

Attribute:
  email-purpose  reason for which email address is included:
informal        for informal contact only
general         for any type of communication
confirmation    any type of communication, but formal messages followed up
                by conventional mailing (to the extent offered)
main            where applicant desires this address to be used as primary
                means of contact as a replacement of the use of conventional
                post (to the extent that an Office offers this)
```

the default value depends on e-mail policies of the relevant Office.
For PCT purposes as at 1 July 2008, no attribute being included is
equivalent to 'informal'

```
-->
<!ELEMENT email (#PCDATA)>

<!ATTLIST email  email-purpose  (informal | general | advance | main ) #IMPLIED >

<!--
  Application reference information: application number, country
  (INID 21, ST.32:B210)
-->
<!ELEMENT application-reference (document-id)>

<!ATTLIST application-reference  id          ID          #IMPLIED
                                appl-type  CDATA       #IMPLIED >

<!--
  Document identification refers to patents (and patent applications) only.
  See WIPO ST.14
-->
<!ELEMENT document-id (country , doc-number , kind? , name? , date?)>

<!ATTLIST document-id  lang CDATA #IMPLIED >

<!--
  Name:
  If no distinction or detail can be given.
  Also to be used for: personal (natural person) and corporate (legal entity) names
-->
<!ELEMENT name (#PCDATA)>

<!ATTLIST name  name-type  (legal | natural ) #IMPLIED >

<!--
  Method by which prior art was disclosed to the public
-->
<!ELEMENT method-of-disclosure (international-exhibition | publication | abuse |
other)>

<!--
  Other method by which prior art was disclosed to the public
-->
<!ELEMENT other (#PCDATA)>

<!--
  Exceptions to lack of novelty resulting from abuse;
  Rule 51bis.1(a)(v)
-->
<!ELEMENT abuse (#PCDATA)>

<!--
  A publication was used as the method of disclosure
-->
<!ELEMENT publication (#PCDATA)>

<!--
```

```
An international exhibition was used as the method of disclosure

-->
<!ELEMENT international-exhibition (#PCDATA)>

<!--
  Title of what is being disclosed under PCT Rule 51bis.1(a)(v)
-->
<!ELEMENT title-of-disclosure (#PCDATA)>

<!--
  Signatories
-->
<!ELEMENT signatories (signatory+)>

<!--
  PCT/RO/101 Box No. X:
  The signature must be that of the applicant (if there are several applicants, all
  must sign); however, the signature may be that of the agent, or the common
  representative, where a separate power of attorney appointing the agent or the
  common representative, respectively, or a copy of a general power of attorney is
  already in possession of the receiving Office, is furnished...
  (PCT Rules 4.1(d), 4.15, and 90)

  Indicate the capacity of the signer with 'signatory-capacity'
-->
<!ELEMENT signatory (%name_group; , address? , electronic-signature , signatory-
capacity?)>
<!ATTLIST signatory
          id ID #IMPLIED>

<!--
  The capacity in which the person signs
-->
<!ELEMENT signatory-capacity (#PCDATA)>

<!--
  A PKI / PKCS #7 digital signature data type
-->
<!ELEMENT enhanced-signature (pkcs7)>

<!--
  PKCS7 digital signature
-->
<!ELEMENT pkcs7 EMPTY>

<!--
  A non-PKI electronic signature
-->
<!ELEMENT basic-signature (fax-image | text-string | click-wrap)>

<!--
  A simple 'signature';
  e.g., clicking a button labeled 'accept' or 'I agree'
```

```
-->
<!ELEMENT click-wrap EMPTY>

<!--
  A simple text string is to be used as the basic electronic signature;
  e.g., John Doe <text-string>/jd/</text-string>
-->
<!ELEMENT text-string (#PCDATA)>

<!--
  Information regarding inventor(s)
  (INID 72, ST.32:B720)
-->
<!ELEMENT inventor-info (addressbook* , us-residence , authority-applicant?)>

<!--
  Identifies the authority for the applicant. In certain circumstances an inventor
  is unable to file his/her own patent application and an authorized individual
  must do so
-->
<!ELEMENT authority-applicant (#PCDATA)>

<!--
  Identifies the residence of a U.S. inventor
-->
<!ELEMENT us-residence (military-service | (us | non-us))>

<!--
  Identifies the residence of a U.S. inventor that does not reside in the U.S.
-->
<!ELEMENT non-us (city , country , citizenship?)>

<!--
  Identifies the residence of a US inventor that resides in the US
-->
<!ELEMENT us (city , state , country , citizenship?)>

<!--
  A person's status as a citizen of a country
-->
<!ELEMENT citizenship (#PCDATA)>

<!--
  Military address where the applicant is considered to reside
-->
<!ELEMENT military-service (#PCDATA)>

<!--
  Section 212(a)(vii): kind of transfer of entitlement
-->
<!ELEMENT kind-of-transfer (#PCDATA)>
```



```
<!--  
  Name of court; e.g., U.S. Supreme Court  
-->  
<!ELEMENT court-name (#PCDATA)>  
  
<!ELEMENT matter-name (%name_group;)>  
  
<!ATTLIST matter-name  
          id ID #IMPLIED>  
  
<!--  
  Earlier application identification group  
-->  
<!ELEMENT earlier-app-reference (document-id)>  
  
<!--  
  Indication of specific Contracting States in or for which the applicant is  
  seeking protection for his invention  
  (Rule 4.9(a))  
-->  
<!ELEMENT designated-states (country* , (region , country+)*)>  
  
<!--  
  The region for which protection or exclusion (depending upon context) is desired.  
-->  
<!ELEMENT region (country)>  
  
<!--  
  Designated states for which indications are made: all except United States  
-->  
<!ELEMENT all-designations-except-us EMPTY>  
  
<!--  
  All designations permitted by the Treaty are made (Rule 4.9(b))  
-->  
<!ELEMENT all-designations EMPTY>  
  
<!--  
  Descriptive text  
-->  
<!ELEMENT dtext (#PCDATA)>  
  
<!--  
  Universal Resource Locator; e.g. www.wipo.int  
-->  
<!ELEMENT url (#PCDATA)>  
  
<!--  
  Fax number
```

```
-->
<!ELEMENT fax (#PCDATA)>

<!--
  Telephone number
-->
<!ELEMENT phone (#PCDATA)>

<!--
  Electronic address use for other than email
-->
<!ELEMENT ead (#PCDATA)>

<!--
  Address components:
  Address formats differ from country to country
  If no structure possible use text
-->
<!ELEMENT address (%address_group;)>

<!--
  If no structure is possible, enter text (without markup)
-->
<!ELEMENT text (#PCDATA)>

<!--
  Postal code or zip code
-->
<!ELEMENT postcode (#PCDATA)>

<!--
  Region of country; e.g., state, province, etc.
-->
<!ELEMENT state (#PCDATA)>

<!--
  County, parish, department, etc (mainly UK, USA)
-->
<!ELEMENT county (#PCDATA)>

<!--
  City or town name
-->
<!ELEMENT city (#PCDATA)>

<!--
  Street may contain house number or name
-->
<!ELEMENT street (#PCDATA)>

<!--
```

```
Building information in address; e.g., Hoffman building

-->
<!ELEMENT building (#PCDATA)>

<!--
  Address floor; e.g., 10th
-->
<!ELEMENT address-floor (#PCDATA)>

<!--
  Address room; e.g., Room 55B
-->
<!ELEMENT room (#PCDATA)>

<!--
  Post Office Box number
-->
<!ELEMENT pobox (#PCDATA)>

<!--
  Organizational mail code
-->
<!ELEMENT mailcode (#PCDATA)>

<!--
  Address, fifth line
-->
<!ELEMENT address-5 (#PCDATA)>

<!--
  Address, fourth line
-->
<!ELEMENT address-4 (#PCDATA)>

<!--
  Address, third line
-->
<!ELEMENT address-3 (#PCDATA)>

<!--
  Address, second line
-->
<!ELEMENT address-2 (#PCDATA)>

<!--
  Address, first line
-->
<!ELEMENT address-1 (#PCDATA)>

<!--
```

```
Registered number

-->
<!ELEMENT registered-number (#PCDATA)>

<!--
  Synonym
-->
<!ELEMENT synonym (#PCDATA)>

<!--
  Department, division, section, etc. name
-->
<!ELEMENT department (#PCDATA)>

<!--
  Organisation name or company name
-->
<!ELEMENT orgname (#PCDATA)>

<!--
  Role; e.g., President, Chairman, etc.
-->
<!ELEMENT role (#PCDATA)>

<!--
  SDOBI : Individual id
-->
<!ELEMENT iid (#PCDATA)>

<!--
  Name suffix (e.g., II, Jr., Dip., Ing., BA, etc.)
-->
<!ELEMENT suffix (#PCDATA)>

<!--
  Middle name(s) or initial(s)
-->
<!ELEMENT middle-name (#PCDATA)>

<!--
  First or given name(s), initial(s)
-->
<!ELEMENT first-name (#PCDATA)>

<!--
  Last, family, surname
-->
<!ELEMENT last-name (#PCDATA)>

<!--
```

```
Title: e.g., Mr., Mrs., Dr. etc

-->
<!ELEMENT prefix (#PCDATA)>

<!--
Date: components of a date. Format: YYYYMMDD
-->
<!ELEMENT date (#PCDATA)>

<!--
Document kind code; e.g., A1
(INID 13, ST.32:B130)
-->
<!ELEMENT kind (#PCDATA)>

<!--
The number of the referenced patent (or application) document
-->
<!ELEMENT doc-number (#PCDATA)>

<!--
Country: use ST.3 country code; e.g. DE, FR, GB, NL, etc.
Also includes EP, WO
-->
<!ELEMENT country (#PCDATA)>
```

3.5 Pouvoir

```
<?xml version='1.0' encoding='UTF-8' ?>

<!ENTITY % name_group "((name | (prefix? , (last-name | orgname) , first-name? ,
middle-name? , suffix? , iid? , role? , orgname? , department? , synonym*)) ,
registered-number?)">

<!ENTITY % address_group "((address-1? , address-2? , address-3? , address-4? ,
address-5? , mailcode? , pobox? , room? , address-floor? , building? , street? ,
city? , county? , state? , postcode? , country) | text)">

<!--
*****
* power-of-attorney v1.6 2017 JULY *
*****
* PUBLIC "-//WIPO//DTD POWER OF ATTORNEY 1.6//EN" "power-of-attorney-v1-6.dtd"*
*****
* https://www.wipo.int/pct-safe/en/resources/1.15/power-of-attorney-v1-6.dtd *
*****
* contacts: *
* WIPO: Yuya USHIDA; yuya.ushida@wipo.int *
*****
* revision history *
*****
Asahi HASEBE : 01/07/17 incorporated changes from PFC
..changed version number from v1.5 to v1.6
..added an attribute "id" to signatory
MO: 01/07/08 incorporated changes from PFCs:
..changed version number from v1.4 to v1.5
```

```

..multiple addressbook allowed in attorney-or-agent (PFC08/001)
..added attribute 'email-purpose' to email (PFC08/006)
MO: 01/01/07 incorporated changes from PFCs:
..changed version number from v1.3 to v1.4
..implementation of PFC06/001
..added element 'sup' to u (PFC06/003)
..added element 'sup' to i (PFC06/003)
..added element 'sup' to b (PFC06/003)
..added element 'sub' to u (PFC06/003)
..added element 'sub' to i (PFC06/003)
..added element 'sub' to b (PFC06/003)
..added element 'o' to invention-title, b, i, sup, sup2, sub, sub2, heading, claim-
text,
  p, small-caps, dt, dd, li, crossref, figref, othercit, statement (PFC06/003)
..added element 'address-4' to address (PFC06/005)
..added element 'address-5' to address (PFC06/005)
HT: 14/12/04 incorporated changes from PFCs:
..changed attribute he, wi of doc-page from 'NMTOKEN' to 'CDATA'
..added attribute 'id' to addressbook, application-reference
..added attribute 'ocr' to doc-page
HT: 20/07/04 incorporated changes from PFCs:
..changed version number from v1.2 to v1.3
..added value 'national-office', 'regional-office' to attribute produced-by of root
element
HT: 16/12/03 incorporated changes from PFCs:
..changed version number from v1.1 to v1.2
..added element 'sup2' and 'sub2' to sup and sub
JD: 03/02/03 Incorporated changes from PFCs:
..changed version number from v1.0 to v1.1
..added attribute 'orientation' to doc-page
..added (last-name | orgname) option in %name_group;
..made postcode optional within address
..removed br from b, i, smallcaps
2001/12/01
..released version number as v1.0
*****

```

This DTD is based on PCT-EASY power of attorney

Attributes:

```

  lang          = language of application - use ISO639 language code
  dtd-version   = dtd version number
  file          = filename of the whole application
  status        = status of the application; values: new = new application
  date-produced = YYYYMMDD e.g, 20011230 if desired, 12 characters maximum

```

-->

```

<!ELEMENT power-of-attorney (((customer-number? , attorney-or-agent*) , represent-
before , (invention-title | file-reference-id | application-reference)* , ro ,
payor , signatories) | doc-page+)>

```

```

<!ATTLIST power-of-attorney lang          CDATA #REQUIRED
                             dtd-version  CDATA #IMPLIED
                             file         CDATA #IMPLIED
                             date-produced CDATA #IMPLIED
                             title        (power-of-attorney | general-
power-of-attorney ) #REQUIRED
                             status      CDATA #IMPLIED >

```

<!--

A signature represented by electronic means

-->

```

<!ELEMENT electronic-signature (basic-signature | enhanced-signature)>

```

```

<!ATTLIST electronic-signature date          CDATA #REQUIRED
                             place-signed CDATA #IMPLIED >

```

<!--

A TIFF image of a signature

```
-->
<!ELEMENT fax-image EMPTY>

<!ATTLIST fax-image file CDATA #REQUIRED >

<!--
  Attorney or agent has the power to make or receive payments on behalf of the
  applicant (yes| no)
-->
<!ELEMENT payor EMPTY>

<!ATTLIST payor role (yes | no ) #REQUIRED >

<!--
  doc-page - DOCument or PAGE

  This is primarily to be used when data for the whole or major sections of an
  application are in image format OR other formats such as pdf.

  Page range attributes are given when required
  pp - page range
  ppf - first page
  ppl - last page (for pdf).
  The 'img' may also be used for complete pages, e.g. in drawings

  Recommended id = docp0001, docp0002, etc.
  Attributes "he" and "wi" mean height and width.
-->
<!ELEMENT doc-page EMPTY>

<!ATTLIST doc-page id ID #IMPLIED
                  he CDATA #REQUIRED
                  wi CDATA #REQUIRED
                  type (jpg | pdf | tif ) #REQUIRED
                  alt CDATA #IMPLIED
                  pp CDATA #IMPLIED
                  ppf CDATA #IMPLIED
                  ppl CDATA #IMPLIED
                  file CDATA #REQUIRED
                  ocr CDATA #IMPLIED
                  color (color | bw ) #IMPLIED
                  orientation (portrait | landscape ) 'portrait' >

<!--
  Application reference information: application number, country
  (INID 21, ST.32:B210)
-->
<!ELEMENT application-reference (document-id)>

<!ATTLIST application-reference id ID #IMPLIED
                                appl-type CDATA #IMPLIED >

<!--
  Document identification refers to patents (and patent applications) only.
  See WIPO ST.14
-->
<!ELEMENT document-id (country , doc-number , kind? , name? , date?)>

<!ATTLIST document-id lang CDATA #IMPLIED >

<!--
  Title of the Invention:
  (INID 54, ST.32:B540/B542)
-->
```

Preferably two to seven words when in English or translated into English and precise. (Rule 4.3)

Recommended id = 'invnt'

-->

<!ELEMENT invention-title (#PCDATA | b | i | u | o | sup | sub)*>

<!ATTLIST invention-title id ID #IMPLIED
lang CDATA #IMPLIED >

<!--

Underscore: style - single is default

-->

<!ELEMENT u (#PCDATA | b | i | smallcaps | sup | sub)*>

<!ATTLIST u style (single | double | dash | dots) 'single' >

<!--

Overscore: style - single is default

-->

<!ELEMENT o (#PCDATA | b | i | smallcaps | sup | sub)*>

<!ATTLIST o style (single |
double |
dash |
dots |
leftarrow |
rightarrow |
leftrightarrow) 'single' >

<!--

Applicant's legal representative
(INID 74, ST.32:B740)

-->

<!ELEMENT attorney-or-agent (addressbook+ , range-of-authority*)>

<!ATTLIST attorney-or-agent rep-type (agent | attorney | common-representative)
#REQUIRED >

<!--

ADDRESSBOOK GROUP:
Holds name and contact information for individuals/organizations

The LANG attribute is REQUIRED for certain document types,
e.g., the JPO PCT Request where names and addresses may be repeated in two
different languages. If no structure possible use text.

-->

<!ELEMENT addressbook ((%name_group; , address , phone* , fax* , email* , url* ,
ead* , dtext?) | text)>

<!ATTLIST addressbook id ID #IMPLIED
lang CDATA #IMPLIED >

<!--

Email address

Attribute:

email-purpose reason for which email address is included:
informal for informal contact only
general for any type of communication
confirmation any type of communication, but formal messages followed up
by conventional mailing (to the extent offered)
main where applicant desires this address to be used as primary
means of contact as a replacement of the use of conventional
post (to the extent that an Office offers this)

the default value depends on e-mail policies of the relevant Office.
For PCT purposes as at 1 July 2008, no attribute being included is
equivalent to 'informal'

```
-->
<!ELEMENT email (#PCDATA)>

<!ATTLIST email  email-purpose  (informal | general | advance | main ) #IMPLIED >

<!--
  Name:
  If no distinction or detail can be given.
  Also to be used for: personal (natural person) and corporate (legal entity) names
-->
<!ELEMENT name (#PCDATA)>

<!ATTLIST name  name-type  (legal | natural ) #IMPLIED >

<!--
  Signatories
-->
<!ELEMENT signatories (signatory+)>

<!--
  PCT/RO/101 Box No. X:
  The signature must be that of the applicant (if there are several applicants, all
  must sign); however, the signature may be that of the agent, or the common
  representative, where a separate power of attorney appointing the agent or the
  common representative, respectively, or a copy of a general power of attorney is
  already in possession of the receiving Office, is furnished...
  (PCT Rules 4.1(d), 4.15, and 90)

  Indicate the capacity of the signer with 'signatory-capacity'
-->
<!ELEMENT signatory (%name_group; , address? , electronic-signature , signatory-
capacity?)>

<!ATTLIST signatory
          id ID #IMPLIED>

<!--
  The capacity in which the person signs
-->
<!ELEMENT signatory-capacity (#PCDATA)>

<!--
  A PKI / PKCS #7 digital signature data type
-->
<!ELEMENT enhanced-signature (pkcs7)>

<!--
  PKCS7 digital signature
-->
<!ELEMENT pkcs7 EMPTY>

<!--
  A non-PKI electronic signature
-->
```

```
<!ELEMENT basic-signature (fax-image | text-string | click-wrap)>

<!--
  A simple 'signature';
  e.g., clicking a button labeled 'accept' or 'I agree'
-->
<!ELEMENT click-wrap EMPTY>

<!--
  A simple text string is to be used as the basic electronic signature;
  e.g., John Doe <text-string>/jd/</text-string>
-->
<!ELEMENT text-string (#PCDATA)>

<!--
  Receiving Office
-->
<!ELEMENT ro (country)>

<!--
  Date: components of a date.  Format: YYYYMMDD
-->
<!ELEMENT date (#PCDATA)>

<!--
  Document kind code; e.g., A1
  (INID 13, ST.32:B130)
-->
<!ELEMENT kind (#PCDATA)>

<!--
  The number of the referenced patent (or application) document
-->
<!ELEMENT doc-number (#PCDATA)>

<!--
  Applicant's or agent's file reference, if desired, 12 characters maximum
-->
<!ELEMENT file-reference-id (#PCDATA)>

<!--
  Bold formatting for text
-->
<!ELEMENT b (#PCDATA | i | u | o | smallcaps | sup | sub)*>

<!--
  Italic formatting for text
-->
<!ELEMENT i (#PCDATA | b | u | o | smallcaps | sup | sub)*>

<!--
```

```
Small capitals

-->
<!ELEMENT smallcaps (#PCDATA | b | u | i | o)*>

<!--
  Subscripted text
-->
<!ELEMENT sub (#PCDATA | b | u | i | o | sup2 | sub2)*>

<!--
  Superscripted text
-->
<!ELEMENT sup (#PCDATA | b | u | i | o | sup2 | sub2)*>

<!--
  Subscripted text
-->
<!ELEMENT sub2 (#PCDATA | b | u | i | o)*>

<!--
  Superscripted text
-->
<!ELEMENT sup2 (#PCDATA | b | u | i | o)*>

<!--
  The body(ies) which the attorney or agent is appointed to represent the applicant
  before
-->
<!ELEMENT represent-before (all-authorities | isa-only | ipea-only)>

<!--
  Representative has power to represent before International Preliminary
  Examination Authority only
-->
<!ELEMENT ipea-only EMPTY>

<!--
  Representative has power to represent before International Search Authority only
-->
<!ELEMENT isa-only EMPTY>

<!--
  Attorney or agent may represent before all authorities
-->
<!ELEMENT all-authorities EMPTY>

<!--
  The type of authority held by the attorney or agent
-->
<!ELEMENT range-of-authority (#PCDATA)>
```

```
<!--  
  Descriptive text  
-->  
<!ELEMENT dtext (#PCDATA)>  
  
<!--  
  Universal Resource Locator; e.g. www.wipo.int  
-->  
<!ELEMENT url (#PCDATA)>  
  
<!--  
  Fax number  
-->  
<!ELEMENT fax (#PCDATA)>  
  
<!--  
  Telephone number  
-->  
<!ELEMENT phone (#PCDATA)>  
  
<!--  
  Electronic address use for other than email  
-->  
<!ELEMENT ead (#PCDATA)>  
  
<!--  
  Address components:  
  Address formats differ from country to country  
  If no structure possible use text  
-->  
<!ELEMENT address (%address_group;)>  
  
<!--  
  If no structure is possible, enter text (without markup)  
-->  
<!ELEMENT text (#PCDATA)>  
  
<!--  
  Country: use ST.3 country code; e.g. DE, FR, GB, NL, etc.  
  Also includes EP, WO  
-->  
<!ELEMENT country (#PCDATA)>  
  
<!--  
  Postal code or zip code  
-->  
<!ELEMENT postcode (#PCDATA)>  
  
<!--  
  Region of country; e.g., state, province, etc.
```

```
-->
<!ELEMENT state (#PCDATA)>

<!--
  County, parish, department, etc (mainly UK, USA)
-->
<!ELEMENT county (#PCDATA)>

<!--
  City or town name
-->
<!ELEMENT city (#PCDATA)>

<!--
  Street may contain house number or name
-->
<!ELEMENT street (#PCDATA)>

<!--
  Building information in address; e.g., Hoffman building
-->
<!ELEMENT building (#PCDATA)>

<!--
  Address floor; e.g., 10th
-->
<!ELEMENT address-floor (#PCDATA)>

<!--
  Address room; e.g., Room 55B
-->
<!ELEMENT room (#PCDATA)>

<!--
  Post Office Box number
-->
<!ELEMENT pobox (#PCDATA)>

<!--
  Organizational mail code
-->
<!ELEMENT mailcode (#PCDATA)>

<!--
  Address, fifth line
-->
<!ELEMENT address-5 (#PCDATA)>

<!--
  Address, fourth line
```

```
-->
<!ELEMENT address-4 (#PCDATA)>

<!--
  Address, third line
-->
<!ELEMENT address-3 (#PCDATA)>

<!--
  Address, second line
-->
<!ELEMENT address-2 (#PCDATA)>

<!--
  Address, first line
-->
<!ELEMENT address-1 (#PCDATA)>

<!--
  Registered number
-->
<!ELEMENT registered-number (#PCDATA)>

<!--
  Synonym
-->
<!ELEMENT synonym (#PCDATA)>

<!--
  Department, division, section, etc. name
-->
<!ELEMENT department (#PCDATA)>

<!--
  Organisation name or company name
-->
<!ELEMENT orgname (#PCDATA)>

<!--
  Role; e.g., President, Chairman, etc.
-->
<!ELEMENT role (#PCDATA)>

<!--
  SDOBI : Individual id
-->
<!ELEMENT iid (#PCDATA)>

<!--
  Name suffix (e.g., II, Jr., Dip., Ing., BA, etc.)
```

```

-->
<!ELEMENT suffix (#PCDATA)>

<!--
  Middle name(s) or initial(s)
-->
<!ELEMENT middle-name (#PCDATA)>

<!--
  First or given name(s), initial(s)
-->
<!ELEMENT first-name (#PCDATA)>

<!--
  Last, family, surname
-->
<!ELEMENT last-name (#PCDATA)>

<!--
  Title: e.g., Mr., Mrs., Dr. etc
-->
<!ELEMENT prefix (#PCDATA)>

<!--
  Customer number for agents by office
-->
<!ELEMENT customer-number (#PCDATA)>

```

3.6 Feuille de taxes

```

<?xml version='1.0' encoding='UTF-8' ?>

<!ENTITY % name_group "((name | (prefix? , (last-name | orgname) , first-name? ,
middle-name? , suffix? , iid? , role? , orgname? , department? , synonym*)) ,
registered-number?)">

<!ENTITY % address_group "((address-1? , address-2? , address-3? , address-4? ,
address-5? , mailcode? , pobox? , room? , address-floor? , building? , street? ,
city? , county? , state? , postcode? , country) | text)">

<!--
*****
* fee-sheet v1.9      2019  APRIL                                     *
*****
* PUBLIC "-//WIPO//DTD FEE SHEET 1.9//EN" "fee-sheet-v1-9.dtd"      *
*****
* https://www.wipo.int/pct-safe/en/resources/1.15/fee-sheet-v1-9.dtd *
*****
* contacts:                                                     *
*   WIPO: Yuya USHIDA; yuya.ushida@wipo.int                       *
*****
* revision history                                             *
*****
Yuya USHIDA : 01/04/19 incorporated changes from PFC
..changed version number from v1.8 to v1.9

```

```

..added element 'reimbursement-deposit-account' to fee-sheet
Asahi HASEBE : 01/07/17 incorporated changes from PFC
..changed version number from v1.7 to v1.8
..added an attribute "id" to signatory
AH: 01/04/15 incorporated changes from PFC
  .. added element 'automatic-debit' to 'authorization'
SY: 01/04/10 incorporated changes from PFC
..changed version number from v1.5 to v1.6
..added element 'payment-contact' to fee-sheet (PFC09/007)
..added element 'credit-card' to payment-mode (PFC09/007)
MO: 01/07/08 incorporated changes from PFCs:
..changed version number from v1.4 to v1.5
..add element 'earlier-search-document-fee' to prescribed-fees (PFC08/003)
MO: 01/01/07 incorporated changes from PFCs:
..changed version number from v1.3 to v1.4
..added element 'address-4' to address (PFC06/005)
..added element 'address-5' to address (PFC06/005)
..added element 'restoration-fee' to prescribed-fees (PFC07/001)
HT: 14/12/04 incorporated changes from PFCs:
..changed attribute he, wi of doc-page from 'NMTOKEN' to 'CDATA'
..added element 'later-payment' to payment-mode
..added attribute 'ocr' to doc-page
HT: 20/07/04 incorporated changes from PFCs:
..changed version number from v1.2 to v1.3
..added value 'national-office', 'regional-office' to attribute produced-by of root
element
HT: 16/12/03 Incorporated changes from PFCs:
..changed version number from v1.1 to v1.2
..changed element international-fee from 'designation-fee' to 'designation-fee?'
..changed element international-fee from 'fee-reduction?' to 'fee-reduction*'
..added attribute 'reduction-type' to fee-reduction
JD: 03/02/03 Incorporated changes from PFCs:
..changed version number from v1.0 to v1.1
..added element 'dtext' to root content model
..added attribute 'orientation' to 'doc-page'
..added 'last-name | orgname' option in %name_group;
..made 'postcode' optional within 'address'
2001/12/01
..released version number as v1.0
*****

```

Fee calculation sheet annex to the PCT request

Attributes:

```

lang          = language of application - use ISO639 language code
dtd-version   = dtd version number
file          = filename of the whole application
status        = status of the application; values: new = new application
produced-by   = creator of this document
date-produced = YYYYMMDD e.g, 20011230 if desired, 12 characters maximum
ro            = Receiving office name, country code ST.3

```

-->

```

<!ELEMENT fee-sheet ((file-reference-id? , applicant-name , prescribed-fees ,
amount-grand-total+ , deposit-account? , dtext* , payment-contact?, reimbursement-
deposit-account*) | doc-page+)>

```

```

<!ATTLIST fee-sheet lang          CDATA #REQUIRED
                    dtd-version   CDATA #IMPLIED
                    file          CDATA #IMPLIED
                    produced-by    (applicant |
                                   RO |
                                   ISA |
                                   IPEA |
                                   IB |
                                   DO |
                                   EO |
                                   national-office |
                                   regional-office ) #REQUIRED
                    date-produced CDATA #IMPLIED

```



```

                ro          CDATA #REQUIRED
                status      CDATA #IMPLIED >

<!--
  Email address

  Attribute:
    email-purpose  reason for which email address is included:
informal          for informal contact only
general          for any type of communication
confirmation     any type of communication, but formal messages followed up
                 by conventional mailing (to the extent offered)
main            where applicant desires this address to be used as primary
                 means of contact as a replacement of the use of conventional
                 post (to the extent that an Office offers this)
                 the default value depends on e-mail policies of the relevant Office.
                 For PCT purposes as at 1 July 2008, no attribute being included is
                 equivalent to 'informal'

-->
<!ELEMENT email (#PCDATA)>

<!ATTLIST email  email-purpose  (informal | general | advance | main ) #IMPLIED >

<!--
  doc-page - DOCument or PAGE

  This is primarily to be used when data for the whole or major sections of an
  application are in image format OR other formats such as pdf.

  Page range attributes are given when required
    pp - page range
    ppf - first page
    ppl - last page (for pdf).
  The 'img' may also be used for complete pages, e.g. in drawings

  Recommended id = docp0001, docp0002, etc.
  Attributes "he" and "wi" mean height and width.

-->
<!ELEMENT doc-page EMPTY>

<!ATTLIST doc-page  id          ID          #IMPLIED
                    he          CDATA #REQUIRED
                    wi          CDATA #REQUIRED
                    type        (jpg | pdf | tif ) #REQUIRED
                    alt         CDATA #IMPLIED
                    pp          CDATA #IMPLIED
                    ppf         CDATA #IMPLIED
                    ppl         CDATA #IMPLIED
                    file        CDATA #REQUIRED
                    ocr         CDATA #IMPLIED
                    color        (color | bw ) #IMPLIED
                    orientation  (portrait | landscape ) 'portrait' >

<!--
  A signature represented by electronic means

-->
<!ELEMENT electronic-signature (basic-signature | enhanced-signature)>

<!ATTLIST electronic-signature  date          CDATA #REQUIRED
                                place-signed CDATA #IMPLIED >

<!--
  A TIFF image of a signature

-->
<!ELEMENT fax-image EMPTY>

```

```
<!ATTLIST fax-image file CDATA #REQUIRED >

<!--
  The total amount of all fees. Note that more than one grand total amount may be
  permitted, as there may be multiple currencies in which payment is due.
-->
<!ELEMENT amount-grand-total (#PCDATA)>

<!ATTLIST amount-grand-total currency CDATA #REQUIRED >

<!--
  Calculation of prescribed fees
  designation-fee-paid: whether the designation fee has been paid or not
-->
<!ELEMENT prescribed-fees (transmittal-fee , search-fee , international-fee , pdoc-
fee? , restoration-fee? , earlier-search-document-fee?)>

<!ATTLIST prescribed-fees designation-fee-paid (yes | no ) #IMPLIED >
<!--
  Fee for supply of earlier search documents from the RO
-->
<!ELEMENT earlier-search-document-fee (earlier-search-document-quantity , amount-
each , amount-total , payment-mode)>

<!ATTLIST earlier-search-document-fee currency CDATA #REQUIRED >

<!--
  Fee for restoration of rights
-->
<!ELEMENT restoration-fee (restoration-quantity , amount-total , payment-mode)>

<!ATTLIST restoration-fee currency CDATA #REQUIRED >

<!--
  Fee for priority document
-->
<!ELEMENT pdoc-fee (pdoc-quantity , amount-each , amount-total , payment-mode)>

<!ATTLIST pdoc-fee currency CDATA #REQUIRED >

<!--
  International fee:
  The designation fee may be paid at the time of filing the international
  application. However, if the international application contains a priority
  claim, the designation fee must be paid within one year from the priority date or
  within one month from the date of receipt of the international application,
  whichever expires first, but where the international application does not
  contain a priority claim, the designation fee must be paid within one year
  from the date of receipt of the international application.
  (Rule 15.1)
-->
<!ELEMENT international-fee (basic-fee , designation-fee? , fee-reduction* ,
amount-total , payment-mode)>

<!ATTLIST international-fee currency CDATA #REQUIRED >

<!--
  Fee reduction; applicable where PCT electronic filing software is used or where
  the applicant is a national and natural person who resides in a State whose per
  capita income is less than 3,000 US dollars
-->
<!ELEMENT fee-reduction (amount-each)>
```

```
<!ATTLIST fee-reduction  reduction-type CDATA  #IMPLIED >
<!--
  Search fee  (PCT Rule 16.1)
-->
<!ELEMENT search-fee (amount-total , payment-mode , isa?)>
<!ATTLIST search-fee  currency CDATA  #REQUIRED >
<!--
  Transmittal fees  (PCT Rule 14)
-->
<!ELEMENT transmittal-fee (amount-total , payment-mode)>
<!ATTLIST transmittal-fee  currency CDATA  #REQUIRED >
<!--
  Credit card used as payment method
-->
<!ELEMENT credit-card EMPTY>
<!ATTLIST credit-card  number          CDATA  #REQUIRED
                        expires         CDATA  #REQUIRED
                        name             CDATA  #IMPLIED
                        postal-code     CDATA  #IMPLIED >
<!--
  Name:
  If no distinction or detail can be given.
  Also to be used for: personal (natural person) and corporate (legal entity) names
-->
<!ELEMENT name (#PCDATA)>
<!ATTLIST name  name-type  (legal | natural )  #IMPLIED >
<!--
  payment-contact element for use as container for an email that can be used as the
  contact point for payment processing
-->
<!ELEMENT payment-contact (%name_group; , email)>
<!--
  Descriptive text
-->
<!ELEMENT dtext (#PCDATA)>
<!--
  Authorization to charge or credit deposit account
-->
<!ELEMENT deposit-account (authorization , ro , account-no , date , %name_group; ,
signatories?)>
<!--
  Date: components of a date.  Format: YYYYMMDD
-->
<!ELEMENT date (#PCDATA)>
```

```
<!--
  Deposit account number
-->
<!ELEMENT account-no (#PCDATA)>

<!--
  Receiving Office
-->
<!ELEMENT ro (country)>

<!--
  Type(s) of authorization
-->
<!ELEMENT authorization (total-fee? , deficiency-credit? , fee-for-pdoc?,
automatic-debit?)>

<!--
  Authorization to charge the fee for priority document
-->
<!ELEMENT fee-for-pdoc EMPTY>

<!--
  Authorization to charge any deficiency or credit any overpayment
-->
<!ELEMENT deficiency-credit EMPTY>

<!--
  Authorization to charge the total fees indicated above
-->
<!ELEMENT total-fee EMPTY>

<!--
  Instruction to reimburse to a deposit account
-->
<!ELEMENT reimbursement-deposit-account (ip-office, account-no, date,
%name_group;)>

<!--
  IP Office code (ST.3 country code, including the regional authorities)
-->
<!ELEMENT ip-office (#PCDATA)>

<!--
  Signatories
-->
<!ELEMENT signatories (signatory+)>

<!--
  PCT/RO/101 Box No. X:
  The signature must be that of the applicant (if there are several applicants, all
  must sign); however, the signature may be that of the agent, or the common
  representative, where a separate power of attorney appointing the agent or the
  common representative, respectively, or a copy of a general power of attorney is
  already in possession of the receiving Office, is furnished...
  (PCT Rules 4.1(d), 4.15, and 90)
```

```
    Indicate the capacity of the signer with 'signatory-capacity'

-->
<!ELEMENT signatory (%name_group; , address? , electronic-signature , signatory-
capacity?)>

<!ATTLIST signatory
            id ID #IMPLIED>

<!--
    The capacity in which the person signs
-->
<!ELEMENT signatory-capacity (#PCDATA)>

<!--
    A PKI / PKCS #7 digital signature data type
-->
<!ELEMENT enhanced-signature (pkcs7)>

<!--
    PKCS7 digital signature
-->
<!ELEMENT pkcs7 EMPTY>

<!--
    A non-PKI electronic signature
-->
<!ELEMENT basic-signature (fax-image | text-string | click-wrap)>

<!--
    A simple 'signature';
    e.g., clicking a button labeled 'accept' or 'I agree'
-->
<!ELEMENT click-wrap EMPTY>

<!--
    A simple text string is to be used as the basic electronic signature;
    e.g., John Doe <text-string>/jd/</text-string>
-->
<!ELEMENT text-string (#PCDATA)>

<!--
    Address components:
    Address formats differ from country to country
    If no structure possible use text
-->
<!ELEMENT address (%address_group;)>

<!--
    If no structure is possible, enter text (without markup)
-->
<!ELEMENT text (#PCDATA)>
```

```
<!--  
  Postal code or zip code  
-->  
<!ELEMENT postcode (#PCDATA)>  
  
<!--  
  Region of country; e.g., state, province, etc.  
-->  
<!ELEMENT state (#PCDATA)>  
  
<!--  
  County, parish, department, etc (mainly UK, USA)  
-->  
<!ELEMENT county (#PCDATA)>  
  
<!--  
  City or town name  
-->  
<!ELEMENT city (#PCDATA)>  
  
<!--  
  Street may contain house number or name  
-->  
<!ELEMENT street (#PCDATA)>  
  
<!--  
  Building information in address; e.g., Hoffman building  
-->  
<!ELEMENT building (#PCDATA)>  
  
<!--  
  Address floor; e.g., 10th  
-->  
<!ELEMENT address-floor (#PCDATA)>  
  
<!--  
  Address room; e.g., Room 55B  
-->  
<!ELEMENT room (#PCDATA)>  
  
<!--  
  Post Office Box number  
-->  
<!ELEMENT pobox (#PCDATA)>  
  
<!--  
  Organizational mail code  
-->  
<!ELEMENT mailcode (#PCDATA)>
```

```
<!--  
  Address, fifth line  
-->  
<!ELEMENT address-5 (#PCDATA)>  
  
<!--  
  Address, fourth line  
-->  
<!ELEMENT address-4 (#PCDATA)>  
  
<!--  
  Address, third line  
-->  
<!ELEMENT address-3 (#PCDATA)>  
  
<!--  
  Address, second line  
-->  
<!ELEMENT address-2 (#PCDATA)>  
  
<!--  
  Address, first line  
-->  
<!ELEMENT address-1 (#PCDATA)>  
  
<!--  
  Quantity of earlier search documents furnished  
-->  
<!ELEMENT earlier-search-document-quantity (#PCDATA)>  
  
<!--  
-->  
<!ELEMENT restoration-quantity (#PCDATA)>  
  
<!--  
  Quantity of priority document requested  
-->  
<!ELEMENT pdoc-quantity (#PCDATA)>  
  
<!--  
  Designation fee (Rule 15.1)  
-->  
<!ELEMENT designation-fee (number-of-designation , designation-fee-payable ,  
amount-each , amount-total)>  
  
<!--  
  Number of designation fees payable, maximum 8.  
  See PCT Applicant's guide, paragraph 197(c)(ii).  
-->  
<!ELEMENT designation-fee-payable (#PCDATA)>
```

```
<!--
  Number of designations contained in international application
-->
<!ELEMENT number-of-designation (#PCDATA)>

<!--
  Basic fee (Rule 15.1(i)
-->
<!ELEMENT basic-fee (amount-each , additional-amount? , additional-component? ,
amount-total)>

<!--
  If sequence listing part of description is filed in computer readable form
-->
<!ELEMENT additional-component (amount-each)>

<!--
  Additional amount
-->
<!ELEMENT additional-amount (sheets-over-30 , amount-each , total-additional-
amount)>

<!--
  Total additional amount = # of sheets over 30 * amount each
-->
<!ELEMENT total-additional-amount (#PCDATA)>

<!--
  Number of pages in excess of 30
-->
<!ELEMENT sheets-over-30 (#PCDATA)>

<!--
  The amount of each of the fees
-->
<!ELEMENT amount-each (#PCDATA)>

<!--
  International Search Authority; international search to be carried out by
-->
<!ELEMENT isa (country)>

<!--
  Country: use ST.3 country code; e.g. DE, FR, GB, NL, etc.
  Also includes EP, WO
-->
<!ELEMENT country (#PCDATA)>

<!--
  Mode of payment
```



```
-->
<!ELEMENT payment-mode (charge | postal-order | cash | coupons | cheque | bank-
draft | stamps | other | later-payment | credit-card)>

<!--
  Authorization to later payment
-->
<!ELEMENT later-payment EMPTY>

<!--
  Other method by which prior art was disclosed to the public
-->
<!ELEMENT other (#PCDATA)>

<!--
  Revenue stamps used as mode of payment
-->
<!ELEMENT stamps EMPTY>

<!--
  Bank draft to be used as mode of payment
-->
<!ELEMENT bank-draft EMPTY>

<!--
  Cheque used as payment method
-->
<!ELEMENT cheque EMPTY>

<!--
  Coupons used as mode of payment
-->
<!ELEMENT coupons EMPTY>

<!--
  Cash used as payment method
-->
<!ELEMENT cash EMPTY>

<!--
  Postal money order used as mode of payment
-->
<!ELEMENT postal-order EMPTY>

<!--
  Authorization to charge deposit account
-->
<!ELEMENT charge EMPTY>

<!--
```

```
The total amount due for each fee group;  
e.g., search fees, transmittal fees, etc.  
  
-->  
<!ELEMENT amount-total (#PCDATA)>  
  
<!--  
  The name of the applicant (without address information)  
  (ST.32:B711)  
-->  
<!ELEMENT applicant-name (%name_group;)>  
  
<!--  
  Registered number  
-->  
<!ELEMENT registered-number (#PCDATA)>  
  
<!--  
  Synonym  
-->  
<!ELEMENT synonym (#PCDATA)>  
  
<!--  
  Department, division, section, etc. name  
-->  
<!ELEMENT department (#PCDATA)>  
  
<!--  
  Organisation name or company name  
-->  
<!ELEMENT orgname (#PCDATA)>  
  
<!--  
  Role; e.g., President, Chairman, etc.  
-->  
<!ELEMENT role (#PCDATA)>  
  
<!--  
  SDOBI : Individual id  
-->  
<!ELEMENT iid (#PCDATA)>  
  
<!--  
  Name suffix (e.g., II, Jr., Dip., Ing., BA, etc.)  
-->  
<!ELEMENT suffix (#PCDATA)>  
  
<!--  
  Middle name(s) or initial(s)  
-->  
<!ELEMENT middle-name (#PCDATA)>
```

```

<!--
  First or given name(s), initial(s)
-->
<!ELEMENT first-name (#PCDATA)>

<!--
  Last, family, surname
-->
<!ELEMENT last-name (#PCDATA)>

<!--
  Title: e.g., Mr., Mrs., Dr. etc
-->
<!ELEMENT prefix (#PCDATA)>

<!--
  Applicant's or agent's file reference, if desired, 12 characters maximum
-->
<!ELEMENT file-reference-id (#PCDATA)>

<!--
  The Office in its capacity as receiving Office (RO),
  as International Searching Authority (ISA), and, where applicable,
  in its capacity as International Preliminary Examining Authority (IPEA)
  is authorized to automatically debit the identified account with any fees
  due in the processing of this International Application.
-->
<!ELEMENT automatic-debit EMPTY>

```

3.7 Dépôt biologique

```

<?xml version='1.0' encoding='UTF-8' ?>

<!ENTITY % address_group "((address-1? , address-2? , address-3? , address-4? ,
address-5? , mailcode? , pobox? , room? , address-floor? , building? , street? ,
city? , county? , state? , postcode? , country) | text)">

<!--
*****
*  indication-bio-deposit v1.3      2012  JULY                               *
*****
*  PUBLIC "-//WIPO//DTD INDICATION BIO DEPOSIT 1.3//EN"                   *
*                                                                              *
*                                                                              *
*  https://www.wipo.int/pct-safe/en/resources/1.15/                         *
*                                                                              *
*                                                                              *
*  indication-bio-deposit-v1-3.dtd *
*****
*  contacts:                                                                 *
*  WIPO: Yuya USHIDA; yuya.ushida@wipo.int                                  *
*****
*  revision history                                                         *
*****
MO: 01/01/07 incorporated changes from PFCs:
..changed version number from v1.2 to v1.3
..implementation of PFC06/001

```

```

HT: 14/12/04 incorporated changes from PFCs:
..changed attribute he, wi of doc-page from 'NMTOKEN' to 'CDATA'
..added attribute 'id' to application-reference
..added attribute 'ocr' to doc-page
HT: 20/07/04 incorporated changes from PFCs:
..changed version number from v1.1 to v1.2
..added value 'national-office', 'regional-office' to attribute produced-by of root
element
JD: 03/02/03 Incorporated changes from PFCs:
..changed version number from v1.0 to v1.1
..added 'orientation' attribute to 'doc-page'
..made 'postcode' optional within 'address'
..changed content of root from ((application-reference?,file-reference-id?,
indications,(bio-deposit,additional-indication?,(all-designations|
designated-states),separate-indications?+)|doc-page+)
to "((application-reference?,file-reference-id?,indications+)|doc-page+)"
..changed content of 'indications' from "(para-number+)"
to (para-number, (bio-deposit,additional-indication?,(all-designations|
designated-states),separate-indications?))
to better encapsulate information regarding to deposits
2001/12/01
..released version number as v1.0
*****

Attributes:
lang          = language of application - use ISO639 language code
dtd-version   = dtd version number
file          = filename of the whole application
status        = status of the application; values: new = new application
date-produced = date this document was produced
produced-by   = creator of this document
ro            = Receiving office name, country code ST.3

-->
<!ELEMENT indication-bio-deposit ((application-reference? , file-reference-id? ,
indications+ ) | doc-page+)>

<!ATTLIST indication-bio-deposit lang          CDATA #REQUIRED
                                dtd-version   CDATA #IMPLIED
                                file          CDATA #IMPLIED
                                produced-by   (applicant |
                                                RO |
                                                ISA |
                                                IPEA |
                                                IB |
                                                DO |
                                                EO |
                                                national-office |
                                                regional-office ) #REQUIRED
                                date-produced CDATA #IMPLIED
                                ro            CDATA #REQUIRED
                                status        CDATA #IMPLIED >

<!--
doc-page - DOCUMENT or PAGE

This is primarily to be used when data for the whole or major sections of an
application are in image format OR other formats such as pdf.

Page range attributes are given when required
pp - page range
ppf - first page
ppl - last page (for pdf).
The 'img' may also be used for complete pages, e.g. in drawings

Recommended id = docp0001, docp0002, etc.
Attributes "he" and "wi" mean height and width.

-->

```

```

<!ELEMENT doc-page EMPTY>

<!ATTLIST doc-page id ID #IMPLIED
                  he CDATA #REQUIRED
                  wi CDATA #REQUIRED
                  type (jpg | pdf | tif ) #REQUIRED
                  alt CDATA #IMPLIED
                  pp CDATA #IMPLIED
                  ppf CDATA #IMPLIED
                  ppl CDATA #IMPLIED
                  file CDATA #REQUIRED
                  ocr CDATA #IMPLIED
                  color (color | bw ) #IMPLIED
                  orientation (portrait | landscape ) 'portrait' >

<!--
  Biological deposit citation (US EFS: biological-deposit)
  (INID 83, ST.32:B830)
  According to PCT Rule 13bis, EPC Rule 28
  This covers all bio data references long and short within the description and/or
  claims

  Recommended id = biod0001, biod0002, etc.
-->
<!ELEMENT bio-deposit (depository , bio-accno , date? , term? , dtext?)>

<!ATTLIST bio-deposit id ID #IMPLIED
                      num CDATA #REQUIRED
                      url CDATA #IMPLIED
                      dnum CDATA #IMPLIED >

<!--
  Application reference information: application number, country
  (INID 21, ST.32:B210)
-->
<!ELEMENT application-reference (document-id)>

<!ATTLIST application-reference id ID #IMPLIED
                                appl-type CDATA #IMPLIED >

<!--
  Document identification refers to patents (and patent applications) only.
  See WIPO ST.14
-->
<!ELEMENT document-id (country , doc-number , kind? , name? , date?)>

<!ATTLIST document-id lang CDATA #IMPLIED >

<!--
  Name:
  If no distinction or detail can be given.
  Also to be used for: personal (natural person) and corporate (legal entity) names
-->
<!ELEMENT name (#PCDATA)>

<!ATTLIST name name-type (legal | natural ) #IMPLIED >

<!--
  indications relate to the bio-deposit in the application body
-->
<!ELEMENT indications (para-number , (bio-deposit , additional-indication? , (all-
designations | designated-states) , separate-indications?))>

<!--

```

```
Separate furnishing of indications

-->
<!ELEMENT separate-indications (#PCDATA)>

<!--
  Indication of specific Contracting States in or for which the applicant is
  seeking protection for his invention
  (Rule 4.9(a))
-->
<!ELEMENT designated-states (country* , (region , country+)*)>

<!--
  The region for which protection or exclusion (depending upon context) is desired.
-->
<!ELEMENT region (country)>

<!--
  All designations permitted by the Treaty are made (Rule 4.9(b))
-->
<!ELEMENT all-designations EMPTY>

<!--
  Additional indication information for the deposit
-->
<!ELEMENT additional-indication (#PCDATA)>

<!--
  Identifies the period of time during which the depository must be able to furnish
  samples of the biological material.
-->
<!ELEMENT term (#PCDATA)>

<!--
  Descriptive text
-->
<!ELEMENT dtext (#PCDATA)>

<!--
  Biological accession number:
  (ST.32:B831)
  The identification assigned to the biological material by the depository
-->
<!ELEMENT bio-accno (#PCDATA)>

<!--
  Information regarding the facility storing the biological deposit.
  (ST.32:B832)
-->
<!ELEMENT depository (#PCDATA | address)*>

<!--
  Address components:
```

```
Address formats differ from country to country
If no structure possible use text

-->
<!ELEMENT address (%address_group;)>

<!--
  If no structure is possible, enter text (without markup)
-->
<!ELEMENT text (#PCDATA)>

<!--
  Postal code or zip code
-->
<!ELEMENT postcode (#PCDATA)>

<!--
  Region of country; e.g., state, province, etc.
-->
<!ELEMENT state (#PCDATA)>

<!--
  County, parish, department, etc (mainly UK, USA)
-->
<!ELEMENT county (#PCDATA)>

<!--
  City or town name
-->
<!ELEMENT city (#PCDATA)>

<!--
  Street may contain house number or name
-->
<!ELEMENT street (#PCDATA)>

<!--
  Building information in address; e.g., Hoffman building
-->
<!ELEMENT building (#PCDATA)>

<!--
  Address floor; e.g., 10th
-->
<!ELEMENT address-floor (#PCDATA)>

<!--
  Address room; e.g., Room 55B
-->
<!ELEMENT room (#PCDATA)>
```

```
<!--  
  Post Office Box number  
-->  
<!ELEMENT pobox (#PCDATA)>  
  
<!--  
  Organizational mail code  
-->  
<!ELEMENT mailcode (#PCDATA)>  
  
<!--  
  Address, fifth line  
-->  
<!ELEMENT address-5 (#PCDATA)>  
  
<!--  
  Address, fourth line  
-->  
<!ELEMENT address-4 (#PCDATA)>  
  
<!--  
  Address, third line  
-->  
<!ELEMENT address-3 (#PCDATA)>  
  
<!--  
  Address, second line  
-->  
<!ELEMENT address-2 (#PCDATA)>  
  
<!--  
  Address, first line  
-->  
<!ELEMENT address-1 (#PCDATA)>  
  
<!--  
  Indications relate to the bio-deposit in the application body at paragraph number  
-->  
<!ELEMENT para-number (#PCDATA)>  
  
<!--  
  Applicant's or agent's file reference, if desired, 12 characters maximum  
-->  
<!ELEMENT file-reference-id (#PCDATA)>  
  
<!--  
  Date: components of a date.  Format: YYYYMMDD  
-->  
<!ELEMENT date (#PCDATA)>
```



```
<!--
  Document kind code; e.g., A1
  (INID 13, ST.32:B130)
-->
<!ELEMENT kind (#PCDATA)>

<!--
  The number of the referenced patent (or application) document
-->
<!ELEMENT doc-number (#PCDATA)>

<!--
  Country: use ST.3 country code; e.g. DE, FR, GB, NL, etc.
  Also includes EP, WO
-->
<!ELEMENT country (#PCDATA)>
```

3.8 Informations sur l'office récepteur

```
<?xml version='1.0' encoding='UTF-8' ?>

<!ENTITY % name_group "((name | (prefix? , (last-name | orgname) , first-name? ,
middle-name? , suffix? , iid? , role? , orgname? , department? , synonym*)) ,
registered-number?)">

<!ENTITY % address_group "((address-1? , address-2? , address-3? , address-4? ,
address-5? , mailcode? , pobox? , room? , address-floor? , building? , street? ,
city? , county? , state? , postcode? , country) | text)">

<!--
*****
* ro-request-receiving-info v1.4 2017 JULY *
*****
* PUBLIC "-//WIPO//DTD RO REQUEST RECEIVING INFO 1.4//EN" *
* "ro-request-receiving-info-v1-4.dtd" *
*****
* https://www.wipo.int/pct-safe/en/resources/1.15/ *
* ro-request-receiving-info-v1-4.dtd *
*****
* contacts: *
* WIPO: Yuya USHIDA; yuya.ushida@wipo.int *
*****
* revision history *
*****
Asahi HASEBE : 01/07/17 incorporated changes from PFC
..changed version number from v1.3 to v1.4
..added an attribute "id" to signatory
HT: 14/12/04 incorporated changes from PFCs:
..changed version number from v1.1 to v1.2
..added attribute 'id' to application-reference
JD: 03/02/03 Incorporated changes from PFCs:
..changed version number from v1.0 to v1.1
..added (last-name | orgname) choice to %name_group;
..made postcode optional within address
December 2001
..released version number as v1.0
*****

PCT receiving office filing information for PCT request

Attributes:
  lang          = language of application - use ISO639 language code
  dtd-version   = dtd version number
```

```
file          = filename of the whole application
status        = status of the application; values: new = new application
date-produced = YYYYMMDD e.g, 20011230 if desired, 12 characters maximum
ro            = Receiving office name, country code ST.3

-->
<!ELEMENT ro-request-receiving-info (application-reference , ro-info ,
signatories?)>

<!ATTLIST ro-request-receiving-info lang          CDATA #REQUIRED
                                         dtd-version CDATA #IMPLIED
                                         file          CDATA #IMPLIED
                                         date-produced CDATA #IMPLIED
                                         ro            CDATA #REQUIRED
                                         status        CDATA #IMPLIED >

<!--
  A signature represented by electronic means
-->
<!ELEMENT electronic-signature (basic-signature | enhanced-signature)>

<!ATTLIST electronic-signature date          CDATA #REQUIRED
                                place-signed CDATA #IMPLIED >

<!--
  A TIFF image of a signature
-->
<!ELEMENT fax-image EMPTY>

<!ATTLIST fax-image file CDATA #REQUIRED >

<!--
  Application reference information: application number, country
  (INID 21, ST.32:B210)
-->
<!ELEMENT application-reference (document-id)>

<!ATTLIST application-reference id          ID #IMPLIED
                                appl-type CDATA #IMPLIED >

<!--
  Document identification refers to patents (and patent applications) only.
  See WIPO ST.14
-->
<!ELEMENT document-id (country , doc-number , kind? , name? , date?)>

<!ATTLIST document-id lang CDATA #IMPLIED >

<!--
  Name:
  If no distinction or detail can be given.
  Also to be used for: personal (natural person) and corporate (legal entity) names
-->
<!ELEMENT name (#PCDATA)>

<!ATTLIST name name-type (legal | natural ) #IMPLIED >

<!--
  Signatories
-->
<!ELEMENT signatories (signatory+)>

<!--
```

PCT/RO/101 Box No. X:

The signature must be that of the applicant (if there are several applicants, all must sign); however, the signature may be that of the agent, or the common representative, where a separate power of attorney appointing the agent or the common representative, respectively, or a copy of a general power of attorney is already in possession of the receiving Office, is furnished...

(PCT Rules 4.1(d), 4.15, and 90)

Indicate the capacity of the signer with 'signatory-capacity'

-->

```
<!ELEMENT signatory (%name_group; , address? , electronic-signature , signatory-capacity?)>
```

```
<!ATTLIST signatory
      id ID #IMPLIED>
```

<!--

The capacity in which the person signs

-->

```
<!ELEMENT signatory-capacity (#PCDATA)>
```

<!--

A PKI / PKCS #7 digital signature data type

-->

```
<!ELEMENT enhanced-signature (pkcs7)>
```

<!--

PKCS7 digital signature

-->

```
<!ELEMENT pkcs7 EMPTY>
```

<!--

A non-PKI electronic signature

-->

```
<!ELEMENT basic-signature (fax-image | text-string | click-wrap)>
```

<!--

A simple 'signature';

e.g., clicking a button labeled 'accept' or 'I agree'

-->

```
<!ELEMENT click-wrap EMPTY>
```

<!--

A simple text string is to be used as the basic electronic signature;

e.g., John Doe <text-string>/jd/</text-string>

-->

```
<!ELEMENT text-string (#PCDATA)>
```

<!--

Address components:

Address formats differ from country to country

If no structure possible use text

-->

```
<!ELEMENT address (%address_group;)>
```

```
<!--  
  If no structure is possible, enter text (without markup)  
-->  
<!ELEMENT text (#PCDATA)>  
  
<!--  
  Postal code or zip code  
-->  
<!ELEMENT postcode (#PCDATA)>  
  
<!--  
  Region of country; e.g., state, province, etc.  
-->  
<!ELEMENT state (#PCDATA)>  
  
<!--  
  County, parish, department, etc (mainly UK, USA)  
-->  
<!ELEMENT county (#PCDATA)>  
  
<!--  
  City or town name  
-->  
<!ELEMENT city (#PCDATA)>  
  
<!--  
  Street may contain house number or name  
-->  
<!ELEMENT street (#PCDATA)>  
  
<!--  
  Building information in address; e.g., Hoffman building  
-->  
<!ELEMENT building (#PCDATA)>  
  
<!--  
  Address floor; e.g., 10th  
-->  
<!ELEMENT address-floor (#PCDATA)>  
  
<!--  
  Address room; e.g., Room 55B  
-->  
<!ELEMENT room (#PCDATA)>  
  
<!--  
  Post Office Box number  
-->  
<!ELEMENT pobox (#PCDATA)>
```

```
<!--  
  Organizational mail code  
-->  
<!ELEMENT mailcode (#PCDATA)>  
  
<!--  
  Address, fifth line  
-->  
<!ELEMENT address-5 (#PCDATA)>  
  
<!--  
  Address, fourth line  
-->  
<!ELEMENT address-4 (#PCDATA)>  
  
<!--  
  Address, third line  
-->  
<!ELEMENT address-3 (#PCDATA)>  
  
<!--  
  Address, second line  
-->  
<!ELEMENT address-2 (#PCDATA)>  
  
<!--  
  Address, first line  
-->  
<!ELEMENT address-1 (#PCDATA)>  
  
<!--  
  Registered number  
-->  
<!ELEMENT registered-number (#PCDATA)>  
  
<!--  
  Synonym  
-->  
<!ELEMENT synonym (#PCDATA)>  
  
<!--  
  Department, division, section, etc. name  
-->  
<!ELEMENT department (#PCDATA)>  
  
<!--  
  Organisation name or company name  
-->  
<!ELEMENT orgname (#PCDATA)>
```

```
<!--  
  Role; e.g., President, Chairman, etc.  
-->  
<!ELEMENT role (#PCDATA)>  
  
<!--  
  SDOBI : Individual id  
-->  
<!ELEMENT iid (#PCDATA)>  
  
<!--  
  Name suffix (e.g., II, Jr., Dip., Ing., BA, etc.)  
-->  
<!ELEMENT suffix (#PCDATA)>  
  
<!--  
  Middle name(s) or initial(s)  
-->  
<!ELEMENT middle-name (#PCDATA)>  
  
<!--  
  First or given name(s), initial(s)  
-->  
<!ELEMENT first-name (#PCDATA)>  
  
<!--  
  Last, family, surname  
-->  
<!ELEMENT last-name (#PCDATA)>  
  
<!--  
  Title: e.g., Mr., Mrs., Dr. etc  
-->  
<!ELEMENT prefix (#PCDATA)>  
  
<!--  
  PCT receiving office information for PCT application  
-->  
<!ELEMENT ro-info (date-of-actual-receipt , drawings-not-received? , corrected-  
date-receipt? , receipt-pct11-2? , isa? , search-copy-delayed?)>  
  
<!--  
  Transmittal of search copy delayed until search fee is paid  
-->  
<!ELEMENT search-copy-delayed EMPTY>  
  
<!--  
  International Search Authority; international search to be carried out by  
-->  
<!ELEMENT isa (country)>
```

```
<!--
  Date of timely receipt of the required corrections under
  PCT Article 11(2)
-->
<!ELEMENT receipt-pct11-2 (date)>

<!--
  Corrected date of actual receipt due to later but timely received documents or
  drawings completing the purported international application
-->
<!ELEMENT corrected-date-receipt (date)>

<!--
  The presence of this empty tag signifies that drawings were not received
-->
<!ELEMENT drawings-not-received EMPTY>

<!--
  Date of actual receipt of the purported international application.
  (ST.32:B234)
  The date of receipt will be determined according to the usual principles
  applicable to the filing of applications on paper, including filing by electronic
  means (such as by facsimile transmission), that is, based on the date
  prevailing at the location of the Office at the time when the complete
  transmission of the application has been received.
-->
<!ELEMENT date-of-actual-receipt (date)>

<!--
  Date: components of a date.  Format: YYYYMMDD
-->
<!ELEMENT date (#PCDATA)>

<!--
  Document kind code; e.g., A1
  (INID 13, ST.32:B130)
-->
<!ELEMENT kind (#PCDATA)>

<!--
  The number of the referenced patent (or application) document
-->
<!ELEMENT doc-number (#PCDATA)>

<!--
  Country: use ST.3 country code; e.g. DE, FR, GB, NL, etc.
  Also includes EP, WO
-->
<!ELEMENT country (#PCDATA)>
```

3.9 *Tableau*

```

<?xml version='1.0' encoding='UTF-8' ?>

<!ENTITY % name_group "( (name | (prefix? , (last-name | orgname) , first-name? ,
middle-name? , suffix? , iid? , role? , orgname? , department? , synonym*)) ,
registered-number?)">

<!ENTITY % address_group "( (address-1? , address-2? , address-3? , address-4? ,
address-5? , mailcode? , pobox? , room? , address-floor? , building? , street? ,
city? , county? , state? , postcode? , country) | text)">

<!--
XML EXCHANGE TABLE MODEL DECLARATION MODULE

*****
* table-external v1.4      2012  JULY                               *
*****
* PUBLIC "-//WIPO//DTD TABLE EXTERNAL 1.4//EN" "table-external-v1-4.dtd" *
*****
* https://www.wipo.int/pct-safe/en/resources/1.15/table-external-v1-4.dtd *
*****
* contacts:                                                         *
*   WIPO: Yuya USHIDA; yuya.ushida@wipo.int                         *
*****
* revision history                                                 *
*****
MO: 01/07/08 incorporated changes from PFCs:
..changed version number from v1.3 to v1.4
..added attribute 'email-purpose' to email (PFC08/006)
MO: 01/01/07 incorporated changes from PFCs:
..changed version number from v1.2 to v1.3
..implementation of PFC06/001
..added element 'sup' to u (PFC06/003)
..added element 'sup' to i (PFC06/003)
..added element 'sup' to b (PFC06/003)
..added element 'sub' to u (PFC06/003)
..added element 'sub' to i (PFC06/003)
..added element 'sub' to b (PFC06/003)
..added element 'o' to invention-title, b, i, sup, sup2, sub, sub2, heading, claim-
text,
  p, small-caps, dt, dd, li, crossref, figref, othercit, statement (PFC06/003)
..added element 'address-4' to address (PFC06/005)
..added element 'address-5' to address (PFC06/005)
HT: 14/12/04 incorporated changes from PFCs:
..changed version number from v1.1 to v1.2
..changed element nplcit from '(text | (article , book , online , othercit)*)' to
'(text | article | book | online | othercit)'
..changed element othercit from '(#PCDATA)' to '(#PCDATA | b | i | u | sup | sub)*'
..changed element rel-passage from '(text | (passage+ , category? , rel-claims?))' to
(text | (passage+ , category* , rel-claims*+))
..changed attribute he, wi of img from 'NMTOKEN' to 'CDATA'
..changed value of attribute idref of crossref from 'CDATA' to 'IDREF'
..changed value of attribute tsize of dl from 'NMTOKEN' to 'CDATA'
..changed value of attribute num of patcit, nplcit from '#REQUIRED' to 'IMPLIED'
..added element 'pre' to dd, li
..added attribute 'id' to addressbook
..added attribute 'chem-type' to chem
..added attribute 'class-type' to class
..added value 'other-subname-type' to attribute 'subname-type' of subname
..removed attribute 'lang', 'status', 'dtd-version' from chem
HT: 20/07/04 incorporated changes from PFCs:
..changed version number from v1.0 to v1.1
..changed element article, online, serial from 'subname?' to 'subname*'
..changed element chemistry from '(img)' to '(img|(chem,img?))'
..changed element maths from '(img|math)' to '(img|(math,img?))'
..changed element rel-passage from 'category?, rel-claims?' to 'category*, rel-
claims*'
..changed element nplcit from '(text | (article | book | online | othercit)*)' to
'(text | article | book | online | othercit)'

```



```
..changed attribute lang of addressbook from '#REQUIRED' to '#IMPLIED'
..added element 'figref' to claim-text, dd, li
..added element 'b', 'i', 'u', 'sup', 'sub', 'smallcaps' to crossref
..added attribute 'num' to li
..added attribute 'subname-type' to subname
..added value 'chem', 'table', 'math', 'program-listing', 'flowchart' to attribute
'img-content' of img
..removed attribute 'class-type' from nplcit
2003/06/01
..released version number as v1.0
*****

*****
WIPO PCT E-Filing project modifications: parameter entities
*****
DTD OASIS Open XML Exchange Table Model.
Maintained by OASIS; download from:
  http://www.oasis-open.org/specs/soextblx.dtd
Note that the FPI in soextblx.dtd refers to itself as 'calstblx'.
That convention has been followed here.

-->
<!--
  override OASIS Exchange <entry> model

-->
<!--
ENTITY % tbl.entry.mdl "(#PCDATA | b | i | u | sup | sub | smallcaps | br
| patcit | nplcit | bio-deposit | crossref | img
| dl | ul | ol | chemistry | maths)* ">

-->
<!--
  create content for title element in table

-->
<!--
ENTITY % title "<!ELEMENT title (#PCDATA | b | i | u | sup | sub | smallcaps)* > ">
%title;

-->
<!--
*****
  End WIPO PCT E-Filing project modifications; include
  OASIS Exchange Table Model DTD
*****

-->
<!--
  import OASIS Exchange model

-->
<!--
ENTITY % calstblx PUBLIC "-//OASIS//DTD XML Exchange Table Model 19990315//EN"
"soextblx.dtd">
%calstblx;

-->
<!--
  DTD MathML2: maintained by W3C. Download from:
  http://www.w3.org/TR/MathML2/DTD-MathML-20010221.zip

  If using nsgmls-based parser (SP, Near & Far Designer, etc.)
  uncomment 'mathml-charent-module' switch below or replace the
  referenced MathML2 DTD with the version downloadable from:
  http://www.w3.org/Math/DTD/dtd-sp.zip

This notice copied from: http://www.w3.org/Math/DTD/

"DTD for nsgmls
```

Some systems (including the popular nsgmls parser) may not be able to process files using 'plane 1' characters which have Unicode numbers higher than #xFFFF. The versions of the DTD provided here incorporate the modifications mentioned above, but the high characters are replaced by the equivalent mchar construct <mchar name='...'></mchar> this allows the DTD to be read and for MathML files to be validated using such systems."

```
-->
<!--
ENTITY % mathml-charent.module "IGNORE" >
ENTITY % MATHML.prefixed "IGNORE">
ENTITY % MATHML.xmlns "">

-->
<!--
import MathML2 dtd

-->
<!--
ENTITY % mathml2 PUBLIC "-//W3C//DTD MathML 2.0//EN" "mathml2.dtd">
%mathml2;

-->
<!--
*****
WIPO PCT Efiling project modifications: Elements and Attributes
*****

-->
<!ELEMENT table ANY>

<!--
Definition list

Recommended id = dlis0001, dlis0002, etc.

-->
<!ELEMENT dl (dt , dd)+>

<!ATTLIST dl tsize CDATA #IMPLIED
            compact (compact ) #IMPLIED
            id ID #IMPLIED >

<!--
Term to be defined

Recommended id = dtrm0001, dtrm0002, etc.

-->
<!ELEMENT dt (#PCDATA | b | i | u | o | sup | sub | smallcaps)*>

<!ATTLIST dt id ID #IMPLIED >

<!--
Unordered Lists
list-style may be empty for lists with no bullet or other symbol default
list-style is 'bullets'

Recommended id = ulis0001, ulis0002, etc.

-->
<!ELEMENT ul (li+)>

<!ATTLIST ul id ID #IMPLIED
            list-style (bullet | dash | none ) 'bullet'
            compact (compact ) #IMPLIED >

<!--
```

```
List item

Recommended id = list0001, list0002, etc.

-->
<!ELEMENT li (#PCDATA | b | i | u | o | sup | sub | smallcaps | br | pre | patcit |
nplcit | bio-deposit | crossref | figref | img | dl | ul | ol | chemistry |
maths)*>

<!ATTLIST li id ID #IMPLIED
            num CDATA #IMPLIED >

<!--
MATHEMATICS
This is image data or coded according to mathml, version 2

Recommended id = math0001, math0002, etc.

-->
<!ELEMENT maths (img | (math , img?))>

<!ATTLIST maths id ID #IMPLIED
               num CDATA #REQUIRED >

<!--
Chemistry
Chemical formulae, ring structures, Markush structures, etc.

For now treat as image data.
Depending on industry support we may use, e.g., chemML, CML later

Recommended id = chem0001, chem0002, etc

-->
<!ELEMENT chemistry (img | (chem , img?))>

<!ATTLIST chemistry id ID #IMPLIED
                   num CDATA #REQUIRED >

<!--
This is a pointer to an external DTD for chemical markup - to be determined.
For EPO probably CML; http://www.xml-cml.org/

-->
<!ELEMENT chem EMPTY>

<!ATTLIST chem id ID #IMPLIED
              file CDATA #REQUIRED
              chem-type CDATA #IMPLIED >

<!--
Ordered Lists:
attribute 'ol-style'

Recommended use:
  1 arabic numbers      1, 2, 3, ...
  a lower alpha        a, b, c, ...
  A upper alpha        A, B, C, ...
  i lower roman        i, ii, iii, ...
  I upper roman        I, II, III, ...

-->
<!ELEMENT ol (li+)>

<!ATTLIST ol id ID #IMPLIED
            compact (compact) #IMPLIED
            ol-style CDATA #IMPLIED >

<!--
A reference to a figure;
```

```
e.g., "...as shown in <figref idref='f0001'>figure<b>1</b></figref>..."

-->
<!ELEMENT figref (#PCDATA | b | i | u | o | sup | sub | smallcaps)*>

<!ATTLIST figref  idref IDREFS  #IMPLIED
                  num   CDATA    #IMPLIED >

<!--
  This element is one method to identify content consisting of text objects that
  require preservation (pre) of their whitespace in order to preserve internal
  logical relationships.
  (e.g., sequence listing fragments, computer program listings)
-->
<!ELEMENT pre (#PCDATA)>

<!ATTLIST pre  id          ID  #IMPLIED
              xml:space   (preserve | default ) #IMPLIED
              listing-type (sequence | program-listing | other ) #REQUIRED
>

<!--
  Image data
  Image is used for any kind of image: art work, figures, complex work units
  (math, tables, chemistry), etc.

  Recommended:
  id          = i0001, i0002, etc.
  he, wi     = "11" - milimeters - height, width;
  file       = file name,location; label - not used;
  alt        = alternate text if image not shown;
  img-content = drawing is the default;
  img-format = common will be tiff, st33 and st35 in for backward compatibilty
              and, later, publication.
  orientation = orientation of the image (portrait | landscape).
              Default is portrait
  inline     = (yes | no).
              Whether the image is to be presented inline or separated by line
              breaks. Default is no.
-->
<!ELEMENT img EMPTY>

<!ATTLIST img  id          ID  #IMPLIED
              he          CDATA #REQUIRED
              wi          CDATA #REQUIRED
              file        CDATA #REQUIRED
              alt         CDATA #IMPLIED
              img-content (drawing |
                          photograph |
                          character |
                          dna |
                          undefined |
                          chem |
                          table |
                          math |
                          program-listing |
                          flowchart |
                          graph ) 'drawing'
              img-format  (jpg | tif | st33 | st35 ) #REQUIRED
              orientation (portrait | landscape ) 'portrait'
              inline      (yes | no ) 'no' >

<!--
  Cross reference to any other element with an identifier (id)
-->
<!ELEMENT crossref (#PCDATA | b | i | u | o | sup | sub | smallcaps)*>
```

```
<!ATTLIST crossref idref IDREF #REQUIRED >

<!--
  Biological deposit citation (US EFS: biological-deposit)
  (INID 83, ST.32:B830)
  According to PCT Rule 13bis, EPC Rule 28
  This covers all bio data references long and short within the description and/or
  claims

  Recommended id = biod0001, biod0002, etc.

-->
<!ELEMENT bio-deposit (depository , bio-accno , date? , term? , dtext?)>

<!ATTLIST bio-deposit id ID #IMPLIED
                    num CDATA #REQUIRED
                    url CDATA #IMPLIED
                    dnum CDATA #IMPLIED >

<!--
  Non-Patent Literature (NPL) CITation;

  Notes:
  This can be free text data without any structure (#PCDATA) which is NOT
  recommended
  or it can be highly structured data which is marked up according to ST.14 and
  ISO 690 layout;

  This part of the DTD has used many different sources for element names and DTD
  structure and reference:
  AACR2 / MARC
  ISO 12083 - Electronic manuscript prep. and markup. DTD
  Association of American Publishers (AAP) Z39.59 DTD
  European Working Group for SGML (EWS) MAJOUR DTD
  SuperJournal Full Article DTD
  www.superjournal.ac.uk/sj
  Elsevier DTD
  Medline DTD (NLM)

  Attributes (recommended):
  id - ncit0001, ncit0002, etc
  num - 0001, 0002
  npltype - The TYPE of citation is office specific (recommended):;
    A - Abstract citation of no specific kind
    B - Book citation
    I - Biological abstract citation
    C - Chemical abstracts citation
    E - Database citation
    D - Derwent citation
    P - Patent cited within NPL group
    J - Patent Abstracts of Japan citation (REC 067)
    S - Serial / Journal / Periodical citation
    W - World Wide Web / Internet search citation
  medium - the type of medium
    e.g., CD (CD-ROM), MT (Magnetic Tape), DISK, ONLINE
  file - file name on local systems eg. XP number in EPO
  url - where possible give full web link to document

-->
<!ELEMENT nplcit ((text | article | book | online | othercit) , rel-passage*)>

<!ATTLIST nplcit id ID #IMPLIED
                num CDATA #IMPLIED
                lang CDATA #IMPLIED
                file CDATA #IMPLIED
                npl-type CDATA #IMPLIED
                medium CDATA #IMPLIED
                url CDATA #IMPLIED >

<!--
```

```
Reference number (general); for the EPO this is the XP number

-->
<!ELEMENT refno (#PCDATA)>

<!ATTLIST refno  id ID  #IMPLIED >

<!--
  Classification code; e.g., ipc, dewey etc.
-->
<!ELEMENT class (#PCDATA)>

<!ATTLIST class  class-type CDATA  #IMPLIED >

<!--
  Subordinate responsibility; e.g., editor, translator, etc.
-->
<!ELEMENT subname (%name_group; | addressbook)>

<!ATTLIST subname  subname-type  (editor | translator | other-subname-type )
'editor' >

<!--
  Author

  Prime responsibility for the work
  there is no distinguishing between personal and corporate authors
  <author> followed by name or addressbook information
  use the ID attribute if, for example, there is a need to distinguish between
  multiple authors.
  Can also include affiliation details

  Recommended id = auth0001, auth0002, etc.
-->
<!ELEMENT author (%name_group; | addressbook)>

<!ATTLIST author  id ID  #IMPLIED >

<!--
  ADDRESSBOOK GROUP:
  Holds name and contact information for individuals/organizations

  The LANG attribute is REQUIRED for certain document types,
  e.g., the JPO PCT Request where names and addresses may be repeated in two
  different languages. If no structure possible use text.
-->
<!ELEMENT addressbook ((%name_group; , address , phone* , fax* , email* , url* ,
ead* , dtext?) | text)>

<!ATTLIST addressbook  id  ID  #IMPLIED
                        lang CDATA  #IMPLIED >

<!--
  Email address

  Attribute:
    email-purpose  reason for which email address is included:
informal          for informal contact only
general          for any type of communication
confirmation     any type of communication, but formal messages followed up
                 by conventional mailing (to the extent offered)
main             where applicant desires this address to be used as primary
                 means of contact as a replacement of the use of conventional
                 post (to the extent that an Office offers this)
                 the default value depends on e-mail policies of the relevant Office.
                 For PCT purposes as at 1 July 2008, no attribute being included is
```

```
equivalent to 'informal'

-->
<!ELEMENT email (#PCDATA)>

<!ATTLIST email  email-purpose  (informal | general | advance | main )  #IMPLIED >

<!--
PATENT CITATIONS:
(ST.32:B561)
Patent Citation within abstract, description or claims.
For patent citations within Search Report see Search Report DTD

Notes:
Tags arranged according to WIPO ST.14 order.
This can be free text data without any structure (text).

Example:
<patcit id='pcit0001' dnum='US4793675A' dnum-type='publication number'>
  <document-id>
    <country>US</country>
    <doc-number>4793675</doc-number>
    <kind>A</kind>
    <name>Handa</name>
    <date>19881227</date>
  </document-id>
</patcit>

Note:
It is NOT expected that the applicant will create the tagged data
- it could be generated from a 'pull down' data entry form
or generated from internal SR databases

Attributes (recommended):
id - pcit0001, pcit0002, etc.
num - 0001, 0002, etc.
dnum - use full number as one string, eg, "US5401234A";
url - where possible give full web link to patent
file - file name eg. if stored on local systems
dnum-type - type of document number
(e.g., application number, publication number)

-->
<!ELEMENT patcit (text | (document-id , rel-passage*))>

<!ATTLIST patcit  id          ID          #IMPLIED
                  num        CDATA       #IMPLIED
                  dnum       CDATA       #IMPLIED
                  dnum-type  CDATA       #IMPLIED
                  file       CDATA       #IMPLIED
                  url        CDATA       #IMPLIED >

<!--
Document identification refers to patents (and patent applications) only.
See WIPO ST.14

-->
<!ELEMENT document-id (country , doc-number , kind? , name? , date?)>

<!ATTLIST document-id  lang CDATA  #IMPLIED >

<!--
Name:
If no distinction or detail can be given.
Also to be used for: personal (natural person) and corporate (legal entity) names

-->
<!ELEMENT name (#PCDATA)>

<!ATTLIST name  name-type  (legal | natural )  #IMPLIED >
```

```
<!--
  Underscore: style - single is default
-->
<!ELEMENT u (#PCDATA | b | i | smallcaps | sup | sub)*>
<!ATTLIST u style (single | double | dash | dots ) 'single' >
<!--
  Overscore: style - single is default
-->
<!ELEMENT o (#PCDATA | b | i | smallcaps | sup | sub)*>
<!ATTLIST o style (single |
                  double |
                  dash |
                  dots |
                  leftarrow |
                  rightarrow |
                  leftrightarrow ) 'single' >
<!--
  Definition description
-->
<!ELEMENT dd (#PCDATA | b | i | u | o | sup | sub | smallcaps | br | pre | patcit |
nplcit | bio-deposit | crossref | figref | img | ul | ol | chemistry | maths)*>
<!-- xsd:include schemaLocation = "../elementTypes/figref.xsd"/ -->
<!--
  Identifies the period of time during which the depository must be able to furnish
  samples of the biological material.
-->
<!ELEMENT term (#PCDATA)>
<!--
  Biological accession number:
  (ST.32:B831)
  The identification assigned to the biological material by the depository
-->
<!ELEMENT bio-accno (#PCDATA)>
<!--
  Information regarding the facility storing the biological deposit.
  (ST.32:B832)
-->
<!ELEMENT depository (#PCDATA | address)*>
<!--
  Other citations - free form
-->
<!ELEMENT othercit (#PCDATA | b | i | u | o | sup | sub)*>
<!--
  Online citation
  Revised according to ISO-690-2 - Electronic documents and parts thereof.
  Please refer to this standard for definitions and examples.
  See: http://www.nlc-bnc.ca/iso/tc46sc9/standard/690-2e.htm#Contents
-->
```


The tagging in fact is a mixture of article and book tags together with specific electronic source tags.

'Online' is taken to mean any kind of electronic documentation:
databases, internet, CD-Roms, DVD, email, etc

EXAMPLES ;

Kirk-Othmer Encyclopedia of Chemical Technology [online].
3rd ed. New York : John Wiley, 1984 [cited 3 January 1990].
Available from: DIALOG Information Services, Palo Alto (Calif.).

```
<nplcit id='ncit1' num='0001' type='E' medium='online'>
<online>
  <online-title>Kirk-Othmer Encyclopedia of Chemical Technology
</online-title>
  <edition>3rd ed.</edition>
  <imprint>
    <address>
      <text>New York</text>
    </address>
    <name>John Wiley</name>
    <pubdate>19840000</pubdate>
  </imprint>
  <avail>dialog information services, palo alto (calif.).</avail>
  <datecit>
    <date>19900103</date>
  </datecit>
</online>
</nplcit>
```

* Article on Internet:

Clark, Carol. On the Threshold of a Brave New World.
In Blueprint of the Body [online].
CNN.com, 2000. [cited 24 August 2000;10:25 EST]. In-depth specials.
Available from: [http://www.cnn.com/SPECIALS/2000/genome/story/overview/]

```
<nplcit id='ncit1' num='0002' type='E' medium='online'>
<online>
  <author>
    <name>Clark, Carol</name>
  </author>
  <online-title>On the Threshold of a Brave New World</online-title>
  <imprint>
    <name>CNN.com, 2000</name>
  </imprint>
  <series>
    <text>In-depth specials</text>
  </series>
  <avail>http://www.cnn.com/SPECIALS/2000/genome/story/</avail>
  <datecit>
    <date>20000824; 10:25 est</date>
  </datecit>
</online>
</nplcit>
```

* Personal communication (e-mail)

Thacker, Jane. MPEG-21 project stream on digital item identification [online].
Message to: [iso.tc46.sc9@nlc-bnc.ca]. 3 October 2000; 13:33 EST [cited 6
October 2000; 13:10 EST].
Message-ID: [002f01c02d60\$051a64a0\$22a2580c@vaio]. Personal communication.

```
<nplcit id='ncit3' num='0003' type='E' medium='online'>
<online>
  <author>
    <name>Thacker, Jane</name>
  </author>
  <online-title>MPEG-21 project stream on digital item identification
</online-title>
  <subname>
```

```
<name>Message to: <iso.tc46.sc9@nlc-bnc.ca></name>
</subname>
<pubdate>3 October 2000; 13:33 EST</pubdate>
<notes>Personal communication</notes>
<avail>Message-ID: <002f01c02d60$051a64a0$22a2580c@vaio></avail>
<datecit><date>6 october 2000; 13:10 EST</date></datecit>
</online>
</nplcit>

-->
<!ELEMENT online (text | (author* , online-title* , hosttitle? , subname* ,
edition? , (serial | book)? , imprint? , pubdate? , history? , series? , hostno? ,
location? , notes? , avail , class* , keyword* , cpyrt? , issn? , isbn? , datecit?
, srchterm* , srchdate? , refno* , vid? , ino? , doi? , absno?))>

<!--
Date of search/retrieval  YYYYMMDD

-->
<!ELEMENT srchdate (date)>

<!--
Search terms

-->
<!ELEMENT srchterm (#PCDATA)>

<!--
Date cited - date on which the citation was cited.
May be different from srchdate below

-->
<!ELEMENT datecit (date)>

<!--
Availability and access - REQUIRED use for URL, online database, ftp address,
email, etc.;
e.g., Available from Internet: http://www.epoline.org
Available from DIALOG Information Systems, Palo Alto (Calif.)

-->
<!ELEMENT avail (#PCDATA)>

<!--
Numeration within host document

-->
<!ELEMENT hostno (#PCDATA)>

<!--
History of the article (not serial)

-->
<!ELEMENT history (text | (received | accepted | revised | misc))>

<!--
Miscellaneous information relating to the history of the article; see ISO 12083

-->
<!ELEMENT misc (#PCDATA | date)*>

<!--
```

```
Date article was revised

-->
<!ELEMENT revised (date)>

<!--
  Date article was accepted
-->
<!ELEMENT accepted (date)>

<!--
  Date article was received
-->
<!ELEMENT received (date)>

<!--
  Title of the host document/database
-->
<!ELEMENT hosttitle (#PCDATA)>

<!--
  The title of the electronic resource
-->
<!ELEMENT online-title (#PCDATA)>

<!--
  Article citations within a 'host' document

  After patent citations the most common citations are articles within serials
  (periodicals, magazines), books and electronic (eg. internet) sources.
  This is a very complex and varied area to standardise. The tag set below is drawn
  from a number of sources as is the order of the tags (which in any case can be
  changed depending on the stylesheet used).;

  The order of tags is that of WIPO ST.14 / ISO 690 layout.
  DROP, J.G.  Integrated Circuit Personalization at the Module Level.  IBM Tech.
  Dis. Bull.  October 1974, Vol. 17, No. 5, p. 1344 and 1345.
  [XPnnnnnnnnnnn].

  <nplcit id='ncit1' num='0012' type='S' file='XP1234456'>
    <article>
      <author>
        <name>DROP, J.G.</name>
      </author>
      <atl>Integrated Circuit Personalization at the Module Level</atl>
      <serial>
        <sertitle>IBM Tech. Dis. Bull.</sertitle>
        <pubdate>19741000</pubdate>
        <vid>17</vid>
        <ino>5</ino>
      </serial>
      <location>
        <pp>1344 and 1345</pp>
      </location>
      <refno id='XP1'>XP1234456</refno>
    </article>
  </nplcit>

  Note: it is NOT expected that the applicant will create the tagged data
  - it can be generated from a 'pull down' data entry form (eg. in Word) or
  generated from internal SR databases
```

```
-->
<!ELEMENT article (text | (author* , atl? , subname* , (serial | book) , absno? ,
location? , class* , keyword* , cpyrt? , artid? , refno*))>

<!--
  Article unique ID - assigned by a publisher to an article
-->
<!ELEMENT artid (#PCDATA)>

<!--
  Book citation
  In the order specified by WIPO ST.14 and ISO 690 and AACR2 rules for layout

  WALTON, Herrmann. Microwave quantum theory.
  London : Sweet and Maxwell, 1973. ISBN 0123456789.
  Vol.2, p. 138 to 192.

  <nplcit id='ncit12' num='0013' type='b'>
    <book>
      <author>
        <name>WALTON, Herrman</name>
      </author>
      <book-title>Microwave quantum theory</book-title>
      <imprint>
        <address>
          <text>London</text>
        </address>
        <name>Sweet and Maxwell</name>
        <pubdate>19730000</pubdate>
      </imprint>
      <location>
        <pp>138 to 192</pp>
      </location>
      <isbn>0-1234-568-9</isbn>
    </book>
  </nplcit>

-->
<!ELEMENT book (text | (author* , (book-title+ | conference) , (subtitle? ,
subname* , edition? , imprint? , descrip? , series? , absno? , location* , isbn* ,
pubid? , vid? , bookno? , notes? , class* , keyword* , cpyrt? , refno* , doi? ,
ino? , issn?)))>

<!--
  Keyword; e.g., from a Thesaurus or class. scheme
  (ST.32:B550)
-->
<!ELEMENT keyword (#PCDATA)>

<!--
  Book number
-->
<!ELEMENT bookno (#PCDATA)>

<!--
  Location within the cited work
-->
<!ELEMENT location (text | (serpart? , sersect? , chapter? , pp? , column? , para?
, line?))>
```

```
<!--  
  Referenced line within cited work  
-->  
<!ELEMENT line (#PCDATA | linef | line1)*>  
  
<!--  
  Cited document line, last  
-->  
<!ELEMENT line1 (#PCDATA)>  
  
<!--  
  Cited document line, first  
-->  
<!ELEMENT linef (#PCDATA)>  
  
<!--  
  Referenced paragraph within cited work  
-->  
<!ELEMENT para (#PCDATA | paraf | paral)*>  
  
<!--  
  Cited paragraph, last  
-->  
<!ELEMENT paral (#PCDATA)>  
  
<!--  
  Cited paragraph, first  
-->  
<!ELEMENT paraf (#PCDATA)>  
  
<!--  
  Cited document column numbers  
-->  
<!ELEMENT column (#PCDATA | colf | coll)*>  
  
<!--  
  Cited document column, last  
-->  
<!ELEMENT coll (#PCDATA)>  
  
<!--  
  Cited document column, first  
-->  
<!ELEMENT colf (#PCDATA)>  
  
<!--  
  Cited document page numbers  
-->  
<!ELEMENT pp (#PCDATA | ppf | ppl)*>
```

```
<!--  
  Cited document page, last  
-->  
<!ELEMENT ppl (#PCDATA)>  
  
<!--  
  Cited document page , first  
-->  
<!ELEMENT ppf (#PCDATA)>  
  
<!--  
  Chapter; e.g., in a book.  Example: Chapter 2  
-->  
<!ELEMENT chapter (#PCDATA)>  
  
<!--  
  Serial section  
-->  
<!ELEMENT sersect (#PCDATA)>  
  
<!--  
  Part within a serial  
-->  
<!ELEMENT serpart (#PCDATA)>  
  
<!--  
  Abstract number  
-->  
<!ELEMENT absno (#PCDATA)>  
  
<!--  
  Series statement  
-->  
<!ELEMENT series (text | (mst , msn? , issn?))>  
  
<!--  
  Monographic series number  
-->  
<!ELEMENT msn (#PCDATA)>  
  
<!--  
  Monographic series title  
-->  
<!ELEMENT mst (#PCDATA)>  
  
<!--  
  Edition statement  
  (ST.32:B516)  
-->  
<!ELEMENT edition (#PCDATA)>
```

```
<!--
  Book subtitle
-->
<!ELEMENT subtitle (#PCDATA)>

<!--
  CONFERENCE GROUP / CITATION
  There is no standard way of citing conference proceedings; date of the conf. may
  come before or after place, for example. The tags are specified in a set order
  where it is not possible or correct then simply use <text>
-->
<!ELEMENT conference (text | (conftitle , confdate? , confno? , confplace? ,
confsponsor*))>

<!--

-->
<!ELEMENT confdate (date | (sdate , edate))>

<!--
  Conference sponsor
-->
<!ELEMENT confsponsor (#PCDATA | addressbook)*>

<!--
  Conference place
-->
<!ELEMENT confplace (#PCDATA | address)*>

<!--
  Conference number
-->
<!ELEMENT confno (#PCDATA)>

<!--
  Conference title
-->
<!ELEMENT conftitle (#PCDATA)>

<!--
  The title of the cited book
-->
<!ELEMENT book-title (#PCDATA)>

<!--
  Serial citation data:
  This describes the volume or issue as a whole and not a particular article within
  it.
-->
<!ELEMENT serial (sertitle , alttitle? , subname* , issue? , imprint? , pubdate? ,
descrip? , notes? , isbn? , issn? , pubid? , vid? , ino? , cpyrt? , doi?)>
```

```
<!--  
  
-->  
<!ELEMENT doi (#PCDATA)>  
  
<!--  
    Copyright info. Copyright of publisher of serial  
-->  
<!ELEMENT cpyrt (#PCDATA)>  
  
<!--  
    Issue number  
-->  
<!ELEMENT ino (#PCDATA)>  
  
<!--  
    Volume id/number  
-->  
<!ELEMENT vid (#PCDATA)>  
  
<!--  
    Publisher's unique id  
-->  
<!ELEMENT pubid (#PCDATA)>  
  
<!--  
    International Standard Book Number  
-->  
<!ELEMENT isbn (#PCDATA)>  
  
<!--  
    International Standard Serial Number  
-->  
<!ELEMENT issn (#PCDATA)>  
  
<!--  
    Notes about the journal; e.g. Continues Journal of XYZ 1910-1998, published in  
    French and English, etc.  
-->  
<!ELEMENT notes (#PCDATA)>  
  
<!--  
    Physical description - generally NOT used in citations in pats; e.g., v., 27cm  
-->  
<!ELEMENT descrip (#PCDATA)>  
  
<!--  
    Imprint:  
    Publication / creation data  
    Place of publication : publisher, date(s) of publication usually only date of
```



```
publication is used for journal citations

-->
<!ELEMENT imprint (text | (address? , name , pubdate*))>

<!--
  Publication date used in npl citations
-->
<!ELEMENT pubdate (#PCDATA | sdate | edate | time)*>

<!--
  Time; format HHMM
-->
<!ELEMENT time (#PCDATA)>

<!--
  End date used in pubdate
-->
<!ELEMENT edate (#PCDATA)>

<!--
  Start date used in pubdate
-->
<!ELEMENT sdate (#PCDATA)>

<!--
  Issue designation; e.g., Annual, 1971-, 1890-1972
-->
<!ELEMENT issue (#PCDATA)>

<!--
  Alternate title for serial; e.g. BMJ = British Medical Journal
-->
<!ELEMENT alttitle (#PCDATA)>

<!--
  Serial title
-->
<!ELEMENT sertitle (#PCDATA)>

<!--
  Article title
-->
<!ELEMENT atl (#PCDATA)>

<!--
  Descriptive text
-->
<!ELEMENT dtext (#PCDATA)>

<!--
```

```
Universal Resource Locator; e.g. www.wipo.int

-->
<!ELEMENT url (#PCDATA)>

<!--
  Fax number
-->
<!ELEMENT fax (#PCDATA)>

<!--
  Telephone number
-->
<!ELEMENT phone (#PCDATA)>

<!--
  Electronic address use for other than email
-->
<!ELEMENT ead (#PCDATA)>

<!--
  Address components:
  Address formats differ from country to country
  If no structure possible use text
-->
<!ELEMENT address (%address_group;)>

<!--
  Postal code or zip code
-->
<!ELEMENT postcode (#PCDATA)>

<!--
  Region of country; e.g., state, province, etc.
-->
<!ELEMENT state (#PCDATA)>

<!--
  County, parish, department, etc (mainly UK, USA)
-->
<!ELEMENT county (#PCDATA)>

<!--
  City or town name
-->
<!ELEMENT city (#PCDATA)>

<!--
  Street may contain house number or name
-->
<!ELEMENT street (#PCDATA)>
```

```
<!--  
  Building information in address; e.g., Hoffman building  
-->  
<!ELEMENT building (#PCDATA)>  
  
<!--  
  Address floor; e.g., 10th  
-->  
<!ELEMENT address-floor (#PCDATA)>  
  
<!--  
  Address room; e.g., Room 55B  
-->  
<!ELEMENT room (#PCDATA)>  
  
<!--  
  Post Office Box number  
-->  
<!ELEMENT pobox (#PCDATA)>  
  
<!--  
  Organizational mail code  
-->  
<!ELEMENT mailcode (#PCDATA)>  
  
<!--  
  Address, fifth line  
-->  
<!ELEMENT address-5 (#PCDATA)>  
  
<!--  
  Address, fourth line  
-->  
<!ELEMENT address-4 (#PCDATA)>  
  
<!--  
  Address, third line  
-->  
<!ELEMENT address-3 (#PCDATA)>  
  
<!--  
  Address, second line  
-->  
<!ELEMENT address-2 (#PCDATA)>  
  
<!--  
  Address, first line  
-->  
<!ELEMENT address-1 (#PCDATA)>
```

```
<!--  
  Registered number  
-->  
<!ELEMENT registered-number (#PCDATA)>  
  
<!--  
  Synonym  
-->  
<!ELEMENT synonym (#PCDATA)>  
  
<!--  
  Department, division, section, etc. name  
-->  
<!ELEMENT department (#PCDATA)>  
  
<!--  
  Organisation name or company name  
-->  
<!ELEMENT orgname (#PCDATA)>  
  
<!--  
  Role; e.g., President, Chairman, etc.  
-->  
<!ELEMENT role (#PCDATA)>  
  
<!--  
  SDOBI : Individual id  
-->  
<!ELEMENT iid (#PCDATA)>  
  
<!--  
  Name suffix (e.g., II, Jr., Dip., Ing., BA, etc.)  
-->  
<!ELEMENT suffix (#PCDATA)>  
  
<!--  
  Middle name(s) or initial(s)  
-->  
<!ELEMENT middle-name (#PCDATA)>  
  
<!--  
  First or given name(s), initial(s)  
-->  
<!ELEMENT first-name (#PCDATA)>  
  
<!--  
  Last, family, surname  
-->  
<!ELEMENT last-name (#PCDATA)>
```

```
<!--  
  Title: e.g., Mr., Mrs., Dr. etc  
-->  
<!ELEMENT prefix (#PCDATA)>  
  
<!--  
  Relevant passage group within patent; most used in search reports  
  - use text in abstract, description and claims  
-->  
<!ELEMENT rel-passage (text | (passage+ , (category , rel-claims?)*))>  
  
<!--  
  Relevant claims  
-->  
<!ELEMENT rel-claims (#PCDATA)>  
  
<!--  
  Category  
  (ST.32:B563)  
-->  
<!ELEMENT category (#PCDATA)>  
  
<!--  
  Passage within the cited patent literature  
-->  
<!ELEMENT passage (#PCDATA)>  
  
<!--  
  Date: components of a date. Format: YYYYMMDD  
-->  
<!ELEMENT date (#PCDATA)>  
  
<!--  
  Document kind code; e.g., A1  
  (INID 13, ST.32:B130)  
-->  
<!ELEMENT kind (#PCDATA)>  
  
<!--  
  The number of the referenced patent (or application) document  
-->  
<!ELEMENT doc-number (#PCDATA)>  
  
<!--  
  Country: use ST.3 country code; e.g. DE, FR, GB, NL, etc.  
  Also includes EP, WO  
-->  
<!ELEMENT country (#PCDATA)>  
  
<!--  
  If no structure is possible, enter text (without markup)
```

```
-->
<!ELEMENT text (#PCDATA)>

<!--
  br - break, line break within a paragraph
-->
<!ELEMENT br EMPTY>

<!--
  Bold formatting for text
-->
<!ELEMENT b (#PCDATA | i | u | o | smallcaps | sup | sub)*>

<!--
  Italic formatting for text
-->
<!ELEMENT i (#PCDATA | b | u | o | smallcaps | sup | sub)*>

<!--
  Small capitals
-->
<!ELEMENT smallcaps (#PCDATA | b | u | i | o)*>

<!--
  Subscripted text
-->
<!ELEMENT sub (#PCDATA | b | u | i | o | sup2 | sub2)*>

<!--
  Superscripted text
-->
<!ELEMENT sup (#PCDATA | b | u | i | o | sup2 | sub2)*>

<!--
  Subscripted text
-->
<!ELEMENT sub2 (#PCDATA | b | u | i | o)*>

<!--
  Superscripted text
-->
<!ELEMENT sup2 (#PCDATA | b | u | i | o)*>
```

3.10 Correction d'office

```
<?xml version='1.0' encoding='UTF-8' ?>

<!ENTITY % name_group "( (name | (prefix? , (last-name | orgname) , first-name? ,
middle-name? , suffix? , iid? , role? , orgname? , department? , synonym*)) ,
registered-number?)">
```

```

<!--
*****
*   ex-officio-correction v1.3      2012  JULY      *
*****
*   PUBLIC "-//WIPO//DTD EX OFFICIO CORRECTION 1.3//EN" *
*   "ex-officio-correction-v1-3.dtd" *
*****
*   https://www.wipo.int/pct-safe/en/resources/1.15/ *
*   ex-officio-correction-v1-3.dtd *
*****
* contacts: *
*   WIPO: Yuya USHIDA; yuya.ushida@wipo.int *
*****
* revision history *
*****
MO: 01/07/08 incorporated changes from PFCs:
..changed version number from v1.2 to v1.3
..added attribute 'email-purpose' to email (PFC08/006)
MO: 01/01/07 incorporated changes from PFCs:
..changed version number from v1.1 to v1.2
..implementation of PFC06/001
HT: 14/12/04 incorporated changes from PFCs:
..added attribute 'id' to application-reference
HT: 20/07/04 incorporated changes from PFCs:
..changed version number from v1.0 to v1.1
..added element 'tel', 'fax', 'email' to authorized-officer
..added value 'national-office', 'regional-office' to attribute produced-by of root
element
2003/06/01
..released version number as v1.0
*****
Ex officio correction data in electronic record copy

-->
<!ELEMENT ex-officio-correction (application-reference , correction-note+ ,
authorized-officer?)>

<!ATTLIST ex-officio-correction lang          CDATA #REQUIRED
                                dtd-version   CDATA #IMPLIED
                                file           CDATA #IMPLIED
                                status        CDATA #IMPLIED
                                date-produced CDATA #IMPLIED
                                produced-by   (applicant |
                                                RO |
                                                ISA |
                                                IPEA |
                                                IB |
                                                DO |
                                                EO |
                                                national-office |
                                                regional-office ) #REQUIRED
                                ro            CDATA #REQUIRED >

<!--
  A signature represented by electronic means

-->
<!ELEMENT electronic-signature (basic-signature | enhanced-signature)>

<!ATTLIST electronic-signature date          CDATA #REQUIRED
                                place-signed  CDATA #IMPLIED >

<!--
  A TIFF image of a signature

-->
<!ELEMENT fax-image EMPTY>

<!ATTLIST fax-image file CDATA #REQUIRED >

```

```
<!--
  Email address

  Attribute:
    email-purpose    reason for which email address is included:
informal    for informal contact only
general     for any type of communication
confirmation any type of communication, but formal messages followed up
            by conventional mailing (to the extent offered)
main       where applicant desires this address to be used as primary
            means of contact as a replacement of the use of conventional
            post (to the extent that an Office offers this)
            the default value depends on e-mail policies of the relevant Office.
            For PCT purposes as at 1 July 2008, no attribute being included is
            equivalent to 'informal'

-->
<!ELEMENT email (#PCDATA)>

<!ATTLIST email  email-purpose  (informal | general | advance | main ) #IMPLIED >

<!--
  Note of ex-officio correction:

-->
<!ELEMENT correction-note (original-content , corrected-content , action)>

<!ATTLIST correction-note  location-xpath CDATA #IMPLIED
                             sequence      CDATA #REQUIRED >

<!--
  Content after ex-officio correction

-->
<!ELEMENT action EMPTY>

<!ATTLIST action  type-action  (delete | add | replace ) #REQUIRED >

<!--
  Application reference information: application number, country
  (INID 21, ST.32:B210)

-->
<!ELEMENT application-reference (document-id)>

<!ATTLIST application-reference  id          ID          #IMPLIED
                                 appl-type CDATA #IMPLIED >

<!--
  Document identification refers to patents (and patent applications) only.
  See WIPO ST.14

-->
<!ELEMENT document-id (country , doc-number , kind? , name? , date?)>

<!ATTLIST document-id  lang CDATA #IMPLIED >

<!--
  Name:
  If no distinction or detail can be given.
  Also to be used for: personal (natural person) and corporate (legal entity) names

-->
<!ELEMENT name (#PCDATA)>

<!ATTLIST name  name-type  (legal | natural ) #IMPLIED >

<!--
  Authorized Officer.
```



```
-->
<!ELEMENT authorized-officer (%name_group; , phone? , fax? , email? , electronic-
signature?)>

<!--
  A PKI / PKCS #7 digital signature data type
-->
<!ELEMENT enhanced-signature (pkcs7)>

<!--
  PKCS7 digital signature
-->
<!ELEMENT pkcs7 EMPTY>

<!--
  A non-PKI electronic signature
-->
<!ELEMENT basic-signature (fax-image | text-string | click-wrap)>

<!--
  A simple 'signature';
  e.g., clicking a button labeled 'accept' or 'I agree'
-->
<!ELEMENT click-wrap EMPTY>

<!--
  A simple text string is to be used as the basic electronic signature;
  e.g., John Doe <text-string>/jd/</text-string>
-->
<!ELEMENT text-string (#PCDATA)>

<!--
  Fax number
-->
<!ELEMENT fax (#PCDATA)>

<!--
  Telephone number
-->
<!ELEMENT phone (#PCDATA)>

<!--
  Registered number
-->
<!ELEMENT registered-number (#PCDATA)>

<!--
  Synonym
-->
<!ELEMENT synonym (#PCDATA)>
```

```
<!--  
  Department, division, section, etc. name  
-->  
<!ELEMENT department (#PCDATA)>  
  
<!--  
  Organisation name or company name  
-->  
<!ELEMENT orgname (#PCDATA)>  
  
<!--  
  Role; e.g., President, Chairman, etc.  
-->  
<!ELEMENT role (#PCDATA)>  
  
<!--  
  SDOBI : Individual id  
-->  
<!ELEMENT iid (#PCDATA)>  
  
<!--  
  Name suffix (e.g., II, Jr., Dip., Ing., BA, etc.)  
-->  
<!ELEMENT suffix (#PCDATA)>  
  
<!--  
  Middle name(s) or initial(s)  
-->  
<!ELEMENT middle-name (#PCDATA)>  
  
<!--  
  First or given name(s), initial(s)  
-->  
<!ELEMENT first-name (#PCDATA)>  
  
<!--  
  Last, family, surname  
-->  
<!ELEMENT last-name (#PCDATA)>  
  
<!--  
  Title: e.g., Mr., Mrs., Dr. etc  
-->  
<!ELEMENT prefix (#PCDATA)>  
  
<!--  
  Content after ex-officio correction  
-->  
<!ELEMENT corrected-content (#PCDATA)>
```

```
<!--  
  Original content before ex-officio correction  
-->  
<!ELEMENT original-content (#PCDATA)>  
  
<!--  
  Date: components of a date.  Format: YYYYMMDD  
-->  
<!ELEMENT date (#PCDATA)>  
  
<!--  
  Document kind code; e.g., A1  
  (INID 13, ST.32:B130)  
-->  
<!ELEMENT kind (#PCDATA)>  
  
<!--  
  The number of the referenced patent (or application) document  
-->  
<!ELEMENT doc-number (#PCDATA)>  
  
<!--  
  Country: use ST.3 country code; e.g. DE, FR, GB, NL, etc.  
  Also includes EP, WO  
-->  
<!ELEMENT country (#PCDATA)>
```

4. DTDs À UTILISER POUR EMPAQUETER OU TRANSMETTRE LES DOCUMENTS

4.1 *En-tête du paquet*

```
<?xml version='1.0' encoding='UTF-8' ?>  
  
<!ENTITY % name_group "((name | (prefix? , (last-name | orgname) , first-name? ,  
middle-name? , suffix? , iid? , role? , orgname? , department? , synonym*)) ,  
registered-number?)">  
  
<!ENTITY % address_group "((address-1? , address-2? , address-3? , address-4? ,  
address-5? , mailcode? , pobox? , room? , address-floor? , building? , street? ,  
city? , county? , state? , postcode? , country) | text)">  
  
<!--  
*****  
*   pkgheader v1.4      2012  JULY                                     *  
*****  
*   PUBLIC "-//WIPO//DTD PKGHEADER 1.4//EN" "pkgheader-v1-4.dtd"    *  
*****  
*   https://www.wipo.int/pct-safe/en/resources/1.15/pkgheader-v1-4.dtd *  
*****  
*   contacts:                                                     *  
*   WIPO: Yuya USHIDA; yuya.ushida@wipo.int                       *  
*****  
*   revision history                                             *  
*****  
MO: 01/01/07 incorporated changes from PFCs:  
..changed version number from v1.3 to v1.4
```

```

..implementation of PFC06/001
..added element 'sup' to u (PFC06/003)
..added element 'sup' to i (PFC06/003)
..added element 'sup' to b (PFC06/003)
..added element 'sub' to u (PFC06/003)
..added element 'sub' to i (PFC06/003)
..added element 'sub' to b (PFC06/003)
..added element 'o' to invention-title, b, i, sup, sup2, sub, sub2, heading, claim-
text,
  p, small-caps, dt, dd, li, crossref, figref, othercit, statement (PFC06/003)
..added element 'address-4' to address (PFC06/005)
..added element 'address-5' to address (PFC06/005)
HT: 14/12/04 incorporated changes from PFCs:
..added attribute 'id' to application-reference, publication-reference
HT: 20/07/04 incorporated changes from PFCs:
..changed version number from v1.2 to v1.3
..added element 'address' to first-named-applicant
HT: 16/12/03 incorporated changes from PFCs:
..changed version number from v1.1 to v1.2
..added element 'sup2' and 'sub2' to sup and sub
JD: 03/02/03 Incorporated changes from PFCs:
..changed version number from v1.0 to v1.1
..added element 'filelist' to root content model
..added element 'other-filing' to transmittal-info
..added (last-name | orgname) option to %name_group;
..removed br from b, i, smallcaps
2001/12/01
..released version number as v1.0
*****

Root element, pkgheader

Attributes:
  lang          = language of application - use ISO639 language code
  dtd-version   = dtd version number
  file          = filename of the whole application
  status        = status of the application; values: new = new application

-->
<!ELEMENT pkgheader (wad-message-digest , transmittal-info , ip-type , filelist? ,
application-software? , transmission-type? , payment?)>

<!ATTLIST pkgheader  lang          CDATA #REQUIRED
                      dtd-version CDATA #IMPLIED
                      file          CDATA #IMPLIED
                      status       CDATA #IMPLIED >

<!--
Contents of the file received. See Section 704(a):
'and may, at the option of the Office, also indicate or contain such information
as
  (v) the names and sizes of the electronic files received;
  (vi) the dates of creation of the electronic files received;..."

attributes:
  doc-name      = name of the document
  file-name     = name of the electronic file
  size          = size of the file
  date-produced = date of creation of the file

-->
<!ELEMENT file-content EMPTY>

<!ATTLIST file-content  doc-name      CDATA #REQUIRED
                        file-name     CDATA #REQUIRED
                        size          CDATA #IMPLIED
                        date-produced CDATA #IMPLIED
                        number-of-notification CDATA #IMPLIED >

<!--

```

```
Credit card used as payment method

-->
<!ELEMENT credit-card EMPTY>

<!ATTLIST credit-card  number      CDATA #REQUIRED
                        expires     CDATA #REQUIRED
                        name        CDATA #IMPLIED
                        postal-code CDATA #IMPLIED >

<!--
  Deposit account information
-->
<!ELEMENT account EMPTY>

<!ATTLIST account  number      CDATA #REQUIRED
                  account-type CDATA #REQUIRED
                  name         CDATA #IMPLIED >

<!--
  Total amount of fees due
-->
<!ELEMENT fee-total EMPTY>

<!ATTLIST fee-total  amount CDATA #REQUIRED >

<!--
  Amount due
-->
<!ELEMENT fee EMPTY>

<!ATTLIST fee  fee-code CDATA #REQUIRED
             amount  CDATA #REQUIRED
             quantity CDATA #IMPLIED
             currency CDATA #REQUIRED >

<!--
  Information regarding notice
-->
<!ELEMENT notice-info (response-term? , applicant-name* , agent-info? , reason-for-
rejection-info? , drafting-document-info?)>

<!ATTLIST notice-info  notice-id-ref CDATA #REQUIRED >

<!--
  Response term of invitation.

  Attributes:
    term      = period of time
    division = discernment of month or day
-->
<!ELEMENT response-term EMPTY>

<!ATTLIST response-term  unit-of-time CDATA #REQUIRED
                        value         CDATA #REQUIRED >

<!--
  Publication reference information: publication number, date, etc
  (INID 11, ST.32:B110)
-->
<!ELEMENT publication-reference (document-id)>

<!ATTLIST publication-reference  id ID #IMPLIED >
```

```
<!--
  Application reference information: application number, country
  (INID 21, ST.32:B210)
-->
<!ELEMENT application-reference (document-id)>

<!ATTLIST application-reference  id          ID          #IMPLIED
                                appl-type CDATA  #IMPLIED >

<!--
  Document identification refers to patents (and patent applications) only.
  See WIPO ST.14
-->
<!ELEMENT document-id (country , doc-number , kind? , name? , date?)>

<!ATTLIST document-id  lang CDATA  #IMPLIED >

<!--
  Reference to an appealed application
-->
<!ELEMENT appeal-reference (doc-number , date?)>

<!ATTLIST appeal-reference  appeal-type CDATA  #REQUIRED >

<!--
  Name:
  If no distinction or detail can be given.
  Also to be used for: personal (natural person) and corporate (legal entity) names
-->
<!ELEMENT name (#PCDATA)>

<!ATTLIST name  name-type  (legal | natural ) #IMPLIED >

<!--
  Title of the Invention:
  (INID 54, ST.32:B540/B542)

  Preferably two to seven words when in English or translated into English and
  precise. (Rule 4.3)

  Recommended id = 'invt'
-->
<!ELEMENT invention-title (#PCDATA | b | i | u | o | sup | sub)*>

<!ATTLIST invention-title  id      ID          #IMPLIED
                           lang CDATA  #IMPLIED >

<!--
  Underscore: style - single is default
-->
<!ELEMENT u (#PCDATA | b | i | smallcaps | sup | sub)*>

<!ATTLIST u  style  (single | double | dash | dots ) 'single' >

<!--
  Overscore: style - single is default
-->
<!ELEMENT o (#PCDATA | b | i | smallcaps | sup | sub)*>

<!ATTLIST o  style  (single |
                    double |
                    dash |
                    dots |
```

```
        leftarrow |
        rightarrow |
        leftrightarrow ) 'single' >

<!--
  List of files received
-->
<!ELEMENT filelist (file-content+)>

<!--
  Wrapped Application Documents message digest
-->
<!ELEMENT wad-message-digest (#PCDATA)>

<!--
  Payment method
-->
<!ELEMENT payment (fee+ , fee-total , (account | credit-card | other-method))>

<!--
  Other payment method.  Specify
-->
<!ELEMENT other-method (#PCDATA)>

<!--
  Transmission type; e.g., submission or dispatch, etc.
-->
<!ELEMENT transmission-type (#PCDATA)>

<!--
  The software used to generate the XML document instance
-->
<!ELEMENT application-software (software-name , software-version , software-
message?)>

<!--
  Any message (e.g., parser response text) returned by the software used to create
  the document
-->
<!ELEMENT software-message (#PCDATA)>

<!--
  The version of the software used to create the document
-->
<!ELEMENT software-version (#PCDATA)>

<!--
  The name of the software used to create the document
-->
<!ELEMENT software-name (#PCDATA)>

<!--
```

```
Intellectual Property type

-->
<!ELEMENT ip-type (#PCDATA)>

<!--
  Transmittal information
-->
<!ELEMENT transmittal-info (new-application | subsequent-filing | office-to-office
| office-to-applicant)>

<!--
  Document transfer information from office to applicant
-->
<!ELEMENT office-to-applicant (from , invention-title? , confirmation-number? ,
receipt-list-info? , file-reference-id? , (application-reference+ | (patent-
reference , application-reference+)) , notice-info* , total-number-of-
notifications?)>

<!--
  The total number of cases ready for notice
-->
<!ELEMENT total-number-of-notifications (#PCDATA)>

<!--
  A list of the receipts produced by the Office in response to query
  "what did I send you?"
-->
<!ELEMENT receipt-list-info (applicant-name? , receipt-number*)>

<!--
  Notification to the applicant of the document code of the object to draft
-->
<!ELEMENT drafting-document-info (document-code? , (receipt-number | dispatch-id))>

<!--
  Dispatch identifier
-->
<!ELEMENT dispatch-id (#PCDATA)>

<!--
  Receipt number
-->
<!ELEMENT receipt-number (#PCDATA)>

<!--
  The Japanese applicant is demanding the notice of the reason for rejection
-->
<!ELEMENT reason-for-rejection-info (reason-code , text)>

<!--
  Code of the reason for rejection
```



```
-->
<!ELEMENT reason-code (#PCDATA)>

<!--
  Information regarding the agent (without address information)
-->
<!ELEMENT agent-info (agent-name+ | customer-number)>

<!--
  Customer number for agents by office
-->
<!ELEMENT customer-number (#PCDATA)>

<!--
  The name of the agent (without address information)
-->
<!ELEMENT agent-name (%name_group;)>

<!--
  The name of the applicant (without address information)
  (ST.32:B711)
-->
<!ELEMENT applicant-name (%name_group;)>

<!--
  Document transfer information between offices.
-->
<!ELEMENT office-to-office (invention-title? , first-named-applicant? ,
confirmation-number? , application-reference , publication-reference? , file-
reference-id? , from? , to?)>

<!--
  The office that sends the document
-->
<!ELEMENT from (country)>

<!--
  Subsequent filing information, before Issue Date
-->
<!ELEMENT subsequent-filing (invention-title? , first-named-applicant ,
confirmation-number? , file-reference-id? , appeal-reference? , (application-
reference+ | (patent-reference , application-reference+)) , document-code* , to)>

<!--
  Patent reference information: patent number, date, etc
-->
<!ELEMENT patent-reference (document-id)>

<!--
  Document kind code; e.g., A1
  (INID 13, ST.32:B130)
-->
```

```
<!ELEMENT kind (#PCDATA)>

<!--
  Date: components of a date.  Format: YYYYMMDD
-->
<!ELEMENT date (#PCDATA)>

<!--
  The number of the referenced patent (or application) document
-->
<!ELEMENT doc-number (#PCDATA)>

<!--
  Confirmation number from office
-->
<!ELEMENT confirmation-number (#PCDATA)>

<!--
  New application information from applicant to office
-->
<!ELEMENT new-application (invention-title? , first-named-applicant? , file-
reference-id? , document-code* , to)>

<!--
  The office that receives the document
-->
<!ELEMENT to (country)>

<!--
  For reference to non-PCT document from national office;
  code defined by national office
-->
<!ELEMENT document-code (#PCDATA)>

<!--
  Applicant's or agent's file reference, if desired, 12 characters maximum
-->
<!ELEMENT file-reference-id (#PCDATA)>

<!--
  First applicant name in applicant group
-->
<!ELEMENT first-named-applicant (%name_group; , address?)>

<!--
  Address components:
  Address formats differ from country to country
  If no structure possible use text
-->
<!ELEMENT address (%address_group;)>
```

```
<!--  
  If no structure is possible, enter text (without markup)  
-->  
<!ELEMENT text (#PCDATA)>  
  
<!--  
  Country: use ST.3 country code; e.g. DE, FR, GB, NL, etc.  
  Also includes EP, WO  
-->  
<!ELEMENT country (#PCDATA)>  
  
<!--  
  Postal code or zip code  
-->  
<!ELEMENT postcode (#PCDATA)>  
  
<!--  
  Region of country; e.g., state, province, etc.  
-->  
<!ELEMENT state (#PCDATA)>  
  
<!--  
  County, parish, department, etc (mainly UK, USA)  
-->  
<!ELEMENT county (#PCDATA)>  
  
<!--  
  City or town name  
-->  
<!ELEMENT city (#PCDATA)>  
  
<!--  
  Street may contain house number or name  
-->  
<!ELEMENT street (#PCDATA)>  
  
<!--  
  Building information in address; e.g., Hoffman building  
-->  
<!ELEMENT building (#PCDATA)>  
  
<!--  
  Address floor; e.g., 10th  
-->  
<!ELEMENT address-floor (#PCDATA)>  
  
<!--  
  Address room; e.g., Room 55B  
-->  
<!ELEMENT room (#PCDATA)>
```

```
<!--  
  Post Office Box number  
-->  
<!ELEMENT pobox (#PCDATA)>  
  
<!--  
  Organizational mail code  
-->  
<!ELEMENT mailcode (#PCDATA)>  
  
<!--  
  Address, fifth line  
-->  
<!ELEMENT address-5 (#PCDATA)>  
  
<!--  
  Address, fourth line  
-->  
<!ELEMENT address-4 (#PCDATA)>  
  
<!--  
  Address, third line  
-->  
<!ELEMENT address-3 (#PCDATA)>  
  
<!--  
  Address, second line  
-->  
<!ELEMENT address-2 (#PCDATA)>  
  
<!--  
  Address, first line  
-->  
<!ELEMENT address-1 (#PCDATA)>  
  
<!--  
  Registered number  
-->  
<!ELEMENT registered-number (#PCDATA)>  
  
<!--  
  Synonym  
-->  
<!ELEMENT synonym (#PCDATA)>  
  
<!--  
  Department, division, section, etc. name  
-->  
<!ELEMENT department (#PCDATA)>
```

```
<!--  
  Organisation name or company name  
-->  
<!ELEMENT orgname (#PCDATA)>  
  
<!--  
  Role; e.g., President, Chairman, etc.  
-->  
<!ELEMENT role (#PCDATA)>  
  
<!--  
  SDOBI : Individual id  
-->  
<!ELEMENT iid (#PCDATA)>  
  
<!--  
  Name suffix (e.g., II, Jr., Dip., Ing., BA, etc.)  
-->  
<!ELEMENT suffix (#PCDATA)>  
  
<!--  
  Middle name(s) or initial(s)  
-->  
<!ELEMENT middle-name (#PCDATA)>  
  
<!--  
  First or given name(s), initial(s)  
-->  
<!ELEMENT first-name (#PCDATA)>  
  
<!--  
  Last, family, surname  
-->  
<!ELEMENT last-name (#PCDATA)>  
  
<!--  
  Title: e.g., Mr., Mrs., Dr. etc  
-->  
<!ELEMENT prefix (#PCDATA)>  
  
<!--  
  Bold formatting for text  
-->  
<!ELEMENT b (#PCDATA | i | u | o | smallcaps | sup | sub)*>  
  
<!--  
  Italic formatting for text  
-->  
<!ELEMENT i (#PCDATA | b | u | o | smallcaps | sup | sub)*>
```

```

<!--
  Small capitals
-->
<!ELEMENT smallcaps (#PCDATA | b | u | i | o)*>

<!--
  Subscripted text
-->
<!ELEMENT sub (#PCDATA | b | u | i | o | sup2 | sub2)*>

<!--
  Superscripted text
-->
<!ELEMENT sup (#PCDATA | b | u | i | o | sup2 | sub2)*>

<!--
  Subscripted text
-->
<!ELEMENT sub2 (#PCDATA | b | u | i | o)*>

<!--
  Superscripted text
-->
<!ELEMENT sup2 (#PCDATA | b | u | i | o)*>

```

4.2 *Accusé de réception de la transmission*

```

<?xml version='1.0' encoding='UTF-8' ?>

<!ENTITY % name_group "( (name | (prefix? , (last-name | orgname) , first-name? ,
middle-name? , suffix? , iid? , role? , orgname? , department? , synonym*)) ,
registered-number? )" >

<!ENTITY % address_group "( (address-1? , address-2? , address-3? , address-4? ,
address-5? , mailcode? , pobox? , room? , address-floor? , building? , street? ,
city? , county? , state? , postcode? , country) | text )" >

<!--
*****
*   xmit-receipt v1.4      2012  JULY
*****
*   PUBLIC "-//WIPO//DTD XMIT RECEIPT 1.4//EN" "xmit-receipt-v1-4.dtd"
*****
*   https://www.wipo.int/pct-safe/en/resources/1.15/xmit-receipt-v1-4.dtd
*****
*   contacts:
*   WIPO: Yuya USHIDA; yuya.ushida@wipo.int
*****
*   revision history
*****
MO: 01/01/07 incorporated changes from PFCs:
..changed version number from v1.3 to v1.4
..added element 'sup' to u (PFC06/003)
..added element 'sup' to i (PFC06/003)
..added element 'sup' to b (PFC06/003)
..added element 'sub' to u (PFC06/003)
..added element 'sub' to i (PFC06/003)
..added element 'sub' to b (PFC06/003)

```

```

..added element 'o' to invention-title, b, i, sup, sup2, sub, sub2, heading, claim-
text,
  p, small-caps, dt, dd, li, crossref, figref, othercit, statement (PFC06/003)
..added element 'address-4' to address (PFC06/005)
..added element 'address-5' to address (PFC06/005)
HT: 20/07/04 incorporated changes from PFCs:
..changed version number from v1.2 to v1.3
..added element 'address' to first-named-applicant
..added element 'account' to xmit-receipt
HT: 16/12/03 incorporated changes from PFCs:
..changed version number from v1.1 to v1.2
..added element 'sup2' and 'sub2' to sup and sub
JD: 03/02/03 incorporated changes from PFCs:
..changed version number from v1.0 to v1.1
..added (last-name | orgname) choice to %name_group;
..removed 'br' from b, i, smallcaps
2001/12/01
..released version number as v1.0
*****

TRANSMISSION RECEIPT

Attributes:
  lang           = language of application - use ISO639 language code
  dtd-version    = dtd version number
  file           = filename of the whole application
  status         = status of the application; values: new = new application

-->
<!ELEMENT xmit-receipt ((document-id | receipt-id)+ , received-on , from , wad-
message-digest , response+ , filing-type? , wasp-signer? , invention-title? ,
first-named-applicant? , file-reference-id? , filelist? , application-copy? ,
receipt-copy? , account*)>

<!ATTLIST xmit-receipt  lang          CDATA  #REQUIRED
                        dtd-version  CDATA  #IMPLIED
                        file          CDATA  #IMPLIED
                        status       CDATA  #IMPLIED >

<!--
  Deposit account information
-->
<!ELEMENT account EMPTY>

<!ATTLIST account  number          CDATA  #REQUIRED
                  account-type  CDATA  #REQUIRED
                  name           CDATA  #IMPLIED >

<!--
  A rendered version of this transmittal receipt
-->
<!ELEMENT receipt-copy EMPTY>

<!ATTLIST receipt-copy  file  CDATA  #REQUIRED >

<!--
  A copy of the original application received
-->
<!ELEMENT application-copy EMPTY>

<!ATTLIST application-copy  file  CDATA  #REQUIRED >

<!--
  Contents of the file received.  See Section 704(a):
  'and may, at the option of the Office, also indicate or contain such information
  as
  (v) the names and sizes of the electronic files received;

```

```
(vi) the dates of creation of the electronic files received;..."

attributes:
  doc-name      = name of the document
  file-name     = name of the electronic file
  size          = size of the file
  date-produced = date of creation of the file

-->
<!ELEMENT file-content EMPTY>

<!ATTLIST file-content  doc-name          CDATA #REQUIRED
                        file-name         CDATA #REQUIRED
                        size               CDATA #IMPLIED
                        date-produced     CDATA #IMPLIED
                        number-of-notification CDATA #IMPLIED >

<!--
  Title of the Invention:
    (INID 54, ST.32:B540/B542)

  Preferably two to seven words when in English or translated into English and
  precise. (Rule 4.3)

  Recommended id = 'invt'

-->
<!ELEMENT invention-title (#PCDATA | b | i | u | o | sup | sub)*>

<!ATTLIST invention-title  id      ID      #IMPLIED
                           lang CDATA #IMPLIED >

<!--
  Underscore: style - single is default

-->
<!ELEMENT u (#PCDATA | b | i | smallcaps | sup | sub)*>

<!ATTLIST u  style  (single | double | dash | dots ) 'single' >

<!--
  Overscore: style - single is default

-->
<!ELEMENT o (#PCDATA | b | i | smallcaps | sup | sub)*>

<!ATTLIST o  style  (single |
                    double |
                    dash |
                    dots |
                    leftarrow |
                    rightarrow |
                    leftrightarrow ) 'single' >

<!--
  Document identification refers to patents (and patent applications) only.
  See WIPO ST.14

-->
<!ELEMENT document-id (country , doc-number , kind? , name? , date?)>

<!ATTLIST document-id  lang CDATA #IMPLIED >

<!--
  Name:
  If no distinction or detail can be given.
  Also to be used for: personal (natural person) and corporate (legal entity) names

-->
<!ELEMENT name (#PCDATA)>
```



```
<!ATTLIST name name-type (legal | natural ) #IMPLIED >

<!--
  List of files received
-->
<!ELEMENT filelist (file-content+)>

<!--
  Applicant's or agent's file reference, if desired, 12 characters maximum
-->
<!ELEMENT file-reference-id (#PCDATA)>

<!--
  First applicant name in applicant group
-->
<!ELEMENT first-named-applicant (%name_group; , address?)>

<!--
  Address components:
  Address formats differ from country to country
  If no structure possible use text
-->
<!ELEMENT address (%address_group;)>

<!--
  If no structure is possible, enter text (without markup)
-->
<!ELEMENT text (#PCDATA)>

<!--
  Postal code or zip code
-->
<!ELEMENT postcode (#PCDATA)>

<!--
  Region of country; e.g., state, province, etc.
-->
<!ELEMENT state (#PCDATA)>

<!--
  County, parish, department, etc (mainly UK, USA)
-->
<!ELEMENT county (#PCDATA)>

<!--
  City or town name
-->
<!ELEMENT city (#PCDATA)>

<!--
  Street may contain house number or name
```

```
-->
<!ELEMENT street (#PCDATA)>

<!--
  Building information in address; e.g., Hoffman building
-->
<!ELEMENT building (#PCDATA)>

<!--
  Address floor; e.g., 10th
-->
<!ELEMENT address-floor (#PCDATA)>

<!--
  Address room; e.g., Room 55B
-->
<!ELEMENT room (#PCDATA)>

<!--
  Post Office Box number
-->
<!ELEMENT pobox (#PCDATA)>

<!--
  Organizational mail code
-->
<!ELEMENT mailcode (#PCDATA)>

<!--
  Address, fifth line
-->
<!ELEMENT address-5 (#PCDATA)>

<!--
  Address, fourth line
-->
<!ELEMENT address-4 (#PCDATA)>

<!--
  Address, third line
-->
<!ELEMENT address-3 (#PCDATA)>

<!--
  Address, second line
-->
<!ELEMENT address-2 (#PCDATA)>

<!--
  Address, first line
```

```
-->
<!ELEMENT address-1 (#PCDATA)>

<!--
  Bold formatting for text
-->
<!ELEMENT b (#PCDATA | i | u | o | smallcaps | sup | sub)*>

<!--
  Italic formatting for text
-->
<!ELEMENT i (#PCDATA | b | u | o | smallcaps | sup | sub)*>

<!--
  Small capitals
-->
<!ELEMENT smallcaps (#PCDATA | b | u | i | o)*>

<!--
  Subscripted text
-->
<!ELEMENT sub (#PCDATA | b | u | i | o | sup2 | sub2)*>

<!--
  Superscripted text
-->
<!ELEMENT sup (#PCDATA | b | u | i | o | sup2 | sub2)*>

<!--
  Subscripted text
-->
<!ELEMENT sub2 (#PCDATA | b | u | i | o)*>

<!--
  Superscripted text
-->
<!ELEMENT sup2 (#PCDATA | b | u | i | o)*>

<!--
  The signer of the Wrapped And Signed Package
-->
<!ELEMENT wasp-signer (%name_group;)>

<!--
  Registered number
-->
<!ELEMENT registered-number (#PCDATA)>

<!--
  Synonym
```

```
-->
<!ELEMENT synonym (#PCDATA)>

<!--
  Department, division, section, etc. name
-->
<!ELEMENT department (#PCDATA)>

<!--
  Organisation name or company name
-->
<!ELEMENT orgname (#PCDATA)>

<!--
  Role; e.g., President, Chairman, etc.
-->
<!ELEMENT role (#PCDATA)>

<!--
  SDOBI : Individual id
-->
<!ELEMENT iid (#PCDATA)>

<!--
  Name suffix (e.g., II, Jr., Dip., Ing., BA, etc.)
-->
<!ELEMENT suffix (#PCDATA)>

<!--
  Middle name(s) or initial(s)
-->
<!ELEMENT middle-name (#PCDATA)>

<!--
  First or given name(s), initial(s)
-->
<!ELEMENT first-name (#PCDATA)>

<!--
  Last, family, surname
-->
<!ELEMENT last-name (#PCDATA)>

<!--
  Title: e.g., Mr., Mrs., Dr. etc
-->
<!ELEMENT prefix (#PCDATA)>

<!--
  What kind of documents were received in the submission received.
```

```
-->
<!ELEMENT filing-type (#PCDATA)>

<!--
  Response from server
-->
<!ELEMENT response (code , message)>

<!--
  Response message from server
-->
<!ELEMENT message (#PCDATA)>

<!--
  Response code from server
-->
<!ELEMENT code (#PCDATA)>

<!--
  Wrapped Application Documents message digest
-->
<!ELEMENT wad-message-digest (#PCDATA)>

<!--
  The office that sends the document
-->
<!ELEMENT from (country)>

<!--
  Date, time package was received
  The date of receipt will be determined according to the usual principles
  applicable to the filing of applications on paper, including filing by electronic
  means (such as by facsimile transmission), that is, based on the date prevailing
  at the location of the Office at the time when the complete transmission of the
  application has been received.
-->
<!ELEMENT received-on (date , time?)>

<!--
  Time; format HHMM
-->
<!ELEMENT time (#PCDATA)>

<!ELEMENT receipt-id (#PCDATA)>

<!--
  Date: components of a date.  Format: YYYYMMDD
-->
<!ELEMENT date (#PCDATA)>

<!--
```

```
Document kind code; e.g., A1
(INID 13, ST.32:B130)

-->
<!ELEMENT kind (#PCDATA)>

<!--
The number of the referenced patent (or application) document
-->
<!ELEMENT doc-number (#PCDATA)>

<!--
Country: use ST.3 country code; e.g. DE, FR, GB, NL, etc.
Also includes EP, WO
-->
<!ELEMENT country (#PCDATA)>
```

4.3 Répertoire d'envoi

```
<?xml version='1.0' encoding='UTF-8' ?>

<!ENTITY % name_group "( (name | (prefix? , (last-name | orgname) , first-name? ,
middle-name? , suffix? , iid? , role? , orgname? , department? , synonym*)) ,
registered-number? )" >

<!--
*****
* dispatch-list v1.2 2012 JULY *
*****
* PUBLIC "-//WIPO//DTD DISPATCH LIST 1.2//EN" "dispatch-list-v1-2.dtd" *
*****
* https://www.wipo.int/pct-safe/en/resources/1.15/dispatch-list-v1-2.dtd *
*****
* contacts: *
* WIPO: Yuya USHIDA; yuya.ushida@wipo.int *
*****
* revision history *
*****
MO: 01/01/07 incorporated changes from PFCs:
..changed version number from v1.1 to v1.2
..implementation of PFC06/001
HT: 14/12/04 incorporated changes from PFCs:
..changed version number from v1.0 to v1.1
..added attribute 'id' to application-reference
2003/06/01
..released version number as v1.0
*****
Root element, dispatch-list

Attributes:
lang = language of application - use ISO639 language code
dtd-version = dtd version number
file = filename of the whole application
status = status of the application; values: new = new application

-->
<!ELEMENT dispatch-list (receiver , dispatch-document-list , number-of-the-rest)>

<!ATTLIST dispatch-list lang CDATA #REQUIRED
dtd-version CDATA #REQUIRED
date-produced CDATA #REQUIRED
time-produced CDATA #REQUIRED >
```

```
<!--
  The sum total number of cases of "patent, utility model, design, and trademark"
-->
<!ELEMENT total-number-of-cases EMPTY>

<!ATTLIST total-number-of-cases  amount CDATA  #REQUIRED >

<!--
  The number of cases by patent, utility model, design and trademark
-->
<!ELEMENT number-of-cases EMPTY>

<!ATTLIST number-of-cases  law      CDATA  #REQUIRED
                        amount CDATA  #REQUIRED >

<!--
  The number of cases which are not displayed
-->
<!ELEMENT number-of-undisplayed EMPTY>

<!ATTLIST number-of-undisplayed  amount CDATA  #REQUIRED >

<!--
  Details of dispatch documents
  attribute date = date of dispatch
-->
<!ELEMENT dispatch-info (document-code , file-reference-id? , dispatch-id , appeal-
reference? , (application-reference+ | (patent-reference , application-reference+))
, arrival-time , text? , wad-message-digest)>

<!ATTLIST dispatch-info  date CDATA  #REQUIRED >

<!--
  Application reference information: application number, country
  (INID 21, ST.32:B210)
-->
<!ELEMENT application-reference (document-id)>

<!ATTLIST application-reference  id      ID      #IMPLIED
                        appl-type CDATA  #IMPLIED >

<!--
  Document identification refers to patents (and patent applications) only.
  See WIPO ST.14
-->
<!ELEMENT document-id (country , doc-number , kind? , name? , date?)>

<!ATTLIST document-id  lang CDATA  #IMPLIED >

<!--
  Reference to an appealed application
-->
<!ELEMENT appeal-reference (doc-number , date?)>

<!ATTLIST appeal-reference  appeal-type CDATA  #REQUIRED >

<!--
  Name:
  If no distinction or detail can be given.
  Also to be used for: personal (natural person) and corporate (legal entity) names
-->
<!ELEMENT name (#PCDATA)>
```

```
<!ATTLIST name name-type (legal | natural ) #IMPLIED >

<!--
  The number of cases which remain, not yet having been dispatched
-->
<!ELEMENT number-of-the-rest (number-of-cases+ , total-number-of-cases)>

<!--
  A list of the notice documents
-->
<!ELEMENT dispatch-document-list (dispatch-info+ , number-of-undisplayed?)>

<!--
  Wrapped Application Documents message digest
-->
<!ELEMENT wad-message-digest (#PCDATA)>

<!--
  If no structure is possible, enter text (without markup)
-->
<!ELEMENT text (#PCDATA)>

<!--
  Time when notice reached the applicant
-->
<!ELEMENT arrival-time (time)>

<!--
  Time; format HHMM
-->
<!ELEMENT time (#PCDATA)>

<!--
  Patent reference information: patent number, date, etc
-->
<!ELEMENT patent-reference (document-id)>

<!--
  Document kind code; e.g., A1
  (INID 13, ST.32:B130)
-->
<!ELEMENT kind (#PCDATA)>

<!--
  Country: use ST.3 country code; e.g. DE, FR, GB, NL, etc.
  Also includes EP, WO
-->
<!ELEMENT country (#PCDATA)>

<!--
  Date: components of a date. Format: YYYYMMDD
```



```
-->
<!ELEMENT date (#PCDATA)>

<!--
  The number of the referenced patent (or application) document
-->
<!ELEMENT doc-number (#PCDATA)>

<!--
  Dispatch identifier
-->
<!ELEMENT dispatch-id (#PCDATA)>

<!--
  Applicant's or agent's file reference, if desired, 12 characters maximum
-->
<!ELEMENT file-reference-id (#PCDATA)>

<!--
  For reference to non-PCT document from national office;
  code defined by national office
-->
<!ELEMENT document-code (#PCDATA)>

<!--
  Those who receive the dispatch list
-->
<!ELEMENT receiver (%name_group;)>

<!--
  Registered number
-->
<!ELEMENT registered-number (#PCDATA)>

<!--
  Synonym
-->
<!ELEMENT synonym (#PCDATA)>

<!--
  Department, division, section, etc. name
-->
<!ELEMENT department (#PCDATA)>

<!--
  Organisation name or company name
-->
<!ELEMENT orgname (#PCDATA)>

<!--
```

```
Role; e.g., President, Chairman, etc.

-->
<!ELEMENT role (#PCDATA)>

<!--
  SDOBI : Individual id
-->
<!ELEMENT iid (#PCDATA)>

<!--
  Name suffix (e.g., II, Jr., Dip., Ing., BA, etc.)
-->
<!ELEMENT suffix (#PCDATA)>

<!--
  Middle name(s) or initial(s)
-->
<!ELEMENT middle-name (#PCDATA)>

<!--
  First or given name(s), initial(s)
-->
<!ELEMENT first-name (#PCDATA)>

<!--
  Last, family, surname
-->
<!ELEMENT last-name (#PCDATA)>

<!--
  Title: e.g., Mr., Mrs., Dr. etc
-->
<!ELEMENT prefix (#PCDATA)>
```

4.4 Répertoire de réception

```
<?xml version='1.0' encoding='UTF-8' ?>

<!ENTITY % name_group "( (name | (prefix? , (last-name | orgname) , first-name? ,
middle-name? , suffix? , iid? , role? , orgname? , department? , synonym*)) ,
registered-number?)">

<!--
*****
* application-receipt-list v1.2 2012 JULY *
*****
* PUBLIC "-//WIPO//DTD APPLICATION RECEIPT LIST 1.2//EN" *
* "application-receipt-list-v1-2.dtd" *
*****
* http://www.wipo.int/pct-safe/epct/schemaDocs/1.15/ *
* application-receipt-list-v1-2.dtd *
*****
* contacts: *
* WIPO: Yuya USHIDA; yuya.ushida@wipo.int *
*****
```

```
*****
* revision history *
*****
MO: 01/01/07 incorporated changes from PFCs:
..changed version number from v1.1 to v1.2
..implementation of PFC06/001
HT: 14/12/04 incorporated changes from PFCs:
..added attribute 'id' to application-reference
HT: 20/07/04 incorporated changes from PFCs:
..changed version number from v1.0 to v1.1
..added element 'dtext' to application-receipt-list
2003/06/01
..released version number as v1.0
*****

Root element, application-receipt-list

Attributes:
  lang          = language of application - use ISO639 language code
  dtd-version   = dtd version number
  file          = filename of the whole application
  status        = status of the application; values: new = new application
  date-produced = date the file was produced

-->
<!ELEMENT application-receipt-list (receiver , receipt-list , dtext*)>

<!ATTLIST application-receipt-list  dtd-version   CDATA #IMPLIED
                                     file          CDATA #IMPLIED
                                     date-produced CDATA #IMPLIED
                                     status        CDATA #IMPLIED >

<!--
  Details of receipt(s)
-->
<!ELEMENT receipt-info (document-code , file-reference-id? , receipt-number ,
  appeal-reference? , application-reference* , number-of-annexation , result-code ,
  wad-message-digest)>

<!ATTLIST receipt-info  date          CDATA #REQUIRED
                        kind-of-law   CDATA #IMPLIED >

<!ELEMENT result-code (#PCDATA)>

<!ATTLIST result-code  amount CDATA #REQUIRED >

<!--
  Application reference information: application number, country
  (INID 21, ST.32:B210)
-->
<!ELEMENT application-reference (document-id)>

<!ATTLIST application-reference  id          ID #IMPLIED
                                 appl-type   CDATA #IMPLIED >

<!--
  Document identification refers to patents (and patent applications) only.
  See WIPO ST.14
-->
<!ELEMENT document-id (country , doc-number , kind? , name? , date?)>

<!ATTLIST document-id  lang CDATA #IMPLIED >

<!--
  Reference to an appealed application
-->
```

```
<!ELEMENT appeal-reference (doc-number , date?)>

<!ATTLIST appeal-reference  appeal-type CDATA  #REQUIRED >

<!--
  Name:
  If no distinction or detail can be given.
  Also to be used for: personal (natural person) and corporate (legal entity) names
-->
<!ELEMENT name (#PCDATA)>

<!ATTLIST name  name-type  (legal | natural )  #IMPLIED >

<!--
  Descriptive text
-->
<!ELEMENT dtext (#PCDATA)>

<!ELEMENT receipt-list (receipt-info+)>

<!--
  Wrapped Application Documents message digest
-->
<!ELEMENT wad-message-digest (#PCDATA)>

<!ELEMENT number-of-annexation (#PCDATA)>

<!--
  Document kind code; e.g., A1
  (INID 13, ST.32:B130)
-->
<!ELEMENT kind (#PCDATA)>

<!--
  Country: use ST.3 country code; e.g. DE, FR, GB, NL, etc.
  Also includes EP, WO
-->
<!ELEMENT country (#PCDATA)>

<!--
  Date: components of a date.  Format: YYYYMMDD
-->
<!ELEMENT date (#PCDATA)>

<!--
  The number of the referenced patent (or application) document
-->
<!ELEMENT doc-number (#PCDATA)>

<!--
  Receipt number
-->
<!ELEMENT receipt-number (#PCDATA)>
```

```
<!--
  Applicant's or agent's file reference, if desired, 12 characters maximum
-->
<!ELEMENT file-reference-id (#PCDATA)>

<!--
  For reference to non-PCT document from national office;
  code defined by national office
-->
<!ELEMENT document-code (#PCDATA)>

<!--
  Those who receive the dispatch list
-->
<!ELEMENT receiver (%name_group;)>

<!--
  Registered number
-->
<!ELEMENT registered-number (#PCDATA)>

<!--
  Synonym
-->
<!ELEMENT synonym (#PCDATA)>

<!--
  Department, division, section, etc. name
-->
<!ELEMENT department (#PCDATA)>

<!--
  Organisation name or company name
-->
<!ELEMENT orgname (#PCDATA)>

<!--
  Role; e.g., President, Chairman, etc.
-->
<!ELEMENT role (#PCDATA)>

<!--
  SDOBI : Individual id
-->
<!ELEMENT iid (#PCDATA)>

<!--
  Name suffix (e.g., II, Jr., Dip., Ing., BA, etc.)
-->
<!ELEMENT suffix (#PCDATA)>
```

```

<!--
  Middle name(s) or initial(s)
-->
<!ELEMENT middle-name (#PCDATA)>

<!--
  First or given name(s), initial(s)
-->
<!ELEMENT first-name (#PCDATA)>

<!--
  Last, family, surname
-->
<!ELEMENT last-name (#PCDATA)>

<!--
  Title: e.g., Mr., Mrs., Dr. etc
-->
<!ELEMENT prefix (#PCDATA)>

```

5. AUTRES DTDS DE LA NORME E-PCT

Un certain nombre de DTDs fondées sur les DTDs de la norme de dépôt électronique des demandes PCT de l'appendice I de l'annexe F sont listées ci-après. Ces DTDs ont été développées par l'OMPI pour le projet PCT-SAFE et le système COR d'IMPACT.

5.1 Formulaire de demande d'examen préliminaire international

```

<?xml version='1.0' encoding='UTF-8' ?>

<!ENTITY % name_group "((name | (prefix? , (last-name | orgname) , first-name? ,
middle-name? , suffix? , iid? , role? , orgname? , department? , synonym*)) ,
registered-number?)">

<!ENTITY % address_group "((address-1? , address-2? , address-3? , address-4? ,
address-5? , mailcode? , pobox? , room? , address-floor? , building? , street? ,
city? , county? , state? , postcode? , country) | text)">

<!--
*****
* demand v1.10      2019  APRIL                                     *
*****
* PUBLIC "-//WIPO//DTD DEMAND 1.10//EN" "demand-v1-10.dtd"        *
*****
* http://www.wipo.int/pct-safe/epct/schemaDocs/1.15/demand-v1-10.dtd *
*****
* contacts:                                                    *
*   WIPO: Yuya USHIDA; yuya.ushida@wipo.int                    *
*****
* revision history                                             *
*****
Yuya USHIDA : 01/04/19 incorporated changes from PFC
..changed version number from v1.9 to v1.10
..added element 'postpone-examination-demand-time-limit' to concerning-amendments
..added element 'postpone-examination-amendment-time-limit' to concerning-
amendments

```

```
Asahi HASEBE : 01/07/17 incorporated changes from PFC
..changed version number from v1.8 to v1.9
..added an attribute "id" to signatory and us-rights
Asahi HASEBE : 01/01/15 to update DTD in alignment with the latest PCT Form IPEA401
..changed version number from v1.7 to v1.8
..added an element named as "the-sequence-listing" to "concerning-amendments".
Asahi HASEBE : 01/07/14 to update DTD in alignment with the latest PCT Form IPEA401
..changed version number from v1.6 to v1.7
..added an attribute 'page-count' to cl-letter. (PFC14/001)
..added an attribute 'page-count' to cl-copy-amendments-art19. (PFC14/001)
..added an element named as cl-letter-art19 to demand-check-list. (PFC14/001)
MO: 01/07/09 incorporated changes from PFC
..changed version number from v1.5 to v1.6
..added attribute 'carriers-type' to cl-sequence-listing (PFC09/001)
..added attribute 'carriers-quantity' to cl-sequence-listing (PFC09/001)
..added attribute 'size' to cl-sequence-listing (PFC09/001)
MO: 01/07/08 incorporated changes from PFCs:
..changed version number from v1.4 to v1.5
..added attribute 'email-purpose' to email (PFC08/006)
..added attribute 'for-search-only' to cl-sequence-listing-table (PFC08/007)
..added attribute 'additional-copies-including-search-copy' to cl-sequence-listing-
table (PFC08/007)
..added attribute 'with-identifying-statement' to cl-sequence-listing-table
(PFC08/007)
..added attribute 'for-search-only' to cl-sequence-listing (PFC08/007)
..added attribute 'additional-copies-including-search-copy' to cl-sequence-listing
(PFC08/007)
..added attribute 'with-identifying-statement' to cl-sequence-listing (PFC08/007)
MO: 01/01/07 incorporated changes from PFCs:
..changed version number from v1.3 to v1.4
..implementation of PFC06/001
..added element 'sup' to u (PFC06/003)
..added element 'sup' to i (PFC06/003)
..added element 'sup' to b (PFC06/003)
..added element 'sub' to u (PFC06/003)
..added element 'sub' to i (PFC06/003)
..added element 'sub' to b (PFC06/003)
..added element 'o' to invention-title, b, i, sup, sup2, sub, sub2, heading, claim-
text,
  p, small-caps, dt, dd, li, crossref, figref, othercit, statement (PFC06/003)
..added element 'address-4' to address (PFC06/005)
..added element 'address-5' to address (PFC06/005)
HT: 14/12/04 incorporated changes from PFCs:
..changed attribute he, wi of doc-page from 'NMTOKEN' to 'CDATA'
..added attribute 'id' to addressbook, application-reference
..added attribute 'ocr' to doc-page
HT: 20/07/04 incorporated changes from PFCs:
..changed version number from v1.2 to v1.3
..added value 'national-office', 'regional-office' to attribute produced-by of root
element
HT: 16/12/03 incorporated changes from PFCs:
..changed version number from v1.0 to v1.2
..changed element name from 'postpone' to 'postpone-examination'
..added element 'begin-examination-early' to concerning-amendments
..added element 'sup2' and 'sub2' to sup and sub
..added element 'cl-sequence-listing-table' to check-list
..added attribute 'carriers' to cl-sequence-listing
..removed element 'election-of-states' from demand
2003/06/01
..released version number as v1.0
*****
```

Attributes for demand

```
id          = unique id for this application - could be file name
country     = st.3 code for application
dtd-version = dtd version number
lang        = language of application - use ISO639 language code
status      = status of the application; values: new = new application
file        = filename of the whole application
date-produced = YYYYMMDD e.g, 20011230 if desired, 12 characters maximum
```

```
ipea      = IPEA office name, country code ST.3
produced-by = creator of this document

-->
<!ELEMENT demand ((file-reference-id? , application-reference? , date-of-earliest-
priority? , invention-title* , applicants , correspondence-address? , agents-for-
demand? , bases-examination , demand-check-list? , signatories?) | doc-page+)>

<!ATTLIST demand lang          CDATA #REQUIRED
                  dtd-version  CDATA #IMPLIED
                  file          CDATA #IMPLIED
                  status        CDATA #IMPLIED
                  produced-by    (applicant |
                                RO |
                                ISA |
                                IPEA |
                                IB |
                                DO |
                                EO |
                                national-office |
                                regional-office ) #REQUIRED
                  date-produced CDATA #IMPLIED
                  ipea          CDATA #REQUIRED
                  ro            CDATA #IMPLIED
                  isa           CDATA #IMPLIED >

<!--
doc-page - DOCument or PAGE

This is primarily to be used when data for the whole or major sections of an
application are in image format OR other formats such as pdf.

Page range attributes are given when required
pp - page range
ppf - first page
ppl - last page (for pdf).
The 'img' may also be used for complete pages, e.g. in drawings

Recommended id = docp0001, docp0002, etc.
Attributes "he" and "wi" mean height and width.

-->
<!ELEMENT doc-page EMPTY>

<!ATTLIST doc-page id          ID #IMPLIED
                  he          CDATA #REQUIRED
                  wi          CDATA #REQUIRED
                  type        (jpg | pdf | tif ) #REQUIRED
                  alt         CDATA #IMPLIED
                  pp          CDATA #IMPLIED
                  ppf         CDATA #IMPLIED
                  ppl         CDATA #IMPLIED
                  file        CDATA #REQUIRED
                  ocr         CDATA #IMPLIED
                  color       (color | bw ) #IMPLIED
                  orientation (portrait | landscape ) 'portrait' >

<!--
A signature represented by electronic means

-->
<!ELEMENT electronic-signature (basic-signature | enhanced-signature)>

<!ATTLIST electronic-signature date          CDATA #REQUIRED
                               place-signed CDATA #IMPLIED >

<!--
A TIFF image of a signature
```



```
carriers
(internal-electronic |
external-electronic |
#IMPLIED
|
#IMPLIED
#IMPLIED
#IMPLIED >
carriers-type (FD
CD |
BD |
DVD |
other )
carriers-quantity CDATA
size CDATA
#IMPLIED >
<!--
  Checklist; a priority document is being furnished
-->
<!ELEMENT cl-priority-document (sequence-number+)>
<!ATTLIST cl-priority-document quantity CDATA #REQUIRED >
<!--
  Checklist; a statement explaining lack of signature is being furnished
-->
<!ELEMENT cl-lack-of-signature EMPTY>
<!ATTLIST cl-lack-of-signature quantity CDATA #REQUIRED >
<!--
  Checklist; a copy of the general power of attorney is being furnished
-->
<!ELEMENT cl-copy-general-power-of-attorney (ref-number+)>
<!ATTLIST cl-copy-general-power-of-attorney quantity CDATA #REQUIRED >
<!--
  Checklist; a general power of attorney is being furnished
-->
<!ELEMENT cl-general-power-of-attorney EMPTY>
<!ATTLIST cl-general-power-of-attorney quantity CDATA #REQUIRED >
<!--
  Checklist; a separate power of attorney is being furnished
-->
<!ELEMENT cl-separate-power-of-attorney EMPTY>
<!ATTLIST cl-separate-power-of-attorney quantity CDATA #REQUIRED >
<!--
  Checklist; a letter is being furnished.  See PCT/IPEA/401 box VI
-->
<!ELEMENT cl-letter EMPTY>
<!ATTLIST cl-letter quantity CDATA #REQUIRED
page-count CDATA #IMPLIED >
<!--
  Checklist; a copy of statement under Article 19 is being furnished
```

```
-->
<!ELEMENT cl-copy-statement-art19 EMPTY>

<!ATTLIST cl-copy-statement-art19  quantity  CDATA  #REQUIRED
                                           page-count CDATA  #IMPLIED >

<!--
  Checklist; copy of amendments made under Article 19 is being furnished
-->
<!ELEMENT cl-copy-amendments-art19 EMPTY>

<!ATTLIST cl-copy-amendments-art19  quantity CDATA  #REQUIRED
                                           page-count CDATA  #IMPLIED >

<!--
  Checklist; amendments made under Article 34 are being furnished
-->
<!ELEMENT cl-amendments-art34 EMPTY>

<!ATTLIST cl-amendments-art34  quantity  CDATA  #REQUIRED
                                           page-count CDATA  #IMPLIED >

<!--
  Check-list; a translation of application  is being furnished
-->
<!ELEMENT cl-translation-of-application-demand EMPTY>

<!ATTLIST cl-translation-of-application-demand  quantity  CDATA  #REQUIRED
                                                  lang          CDATA  #IMPLIED
                                                  page-count CDATA  #IMPLIED >

<!--
  Language for international preliminary examination (Rule 55.1)
-->
<!ELEMENT language-for-examination (#PCDATA)>

<!ATTLIST language-for-examination  examin-lang  (originally-filed |
                                                    translation-isa |
                                                    publication |
                                                    translation-ipea )  #REQUIRED >

<!--
  The drawings are to be used as the basis for international preliminary
  examination
-->
<!ELEMENT the-drawings EMPTY>

<!ATTLIST the-drawings  basis  (originally | amendment-art34 )  #REQUIRED >

<!--
  the claims are to be used as the basis for international preliminary examination.
  Attribute 'basis':
  the      originally      : the applicant wishes the IPEA to start on the basis of
the      claims as originally filed
      amendment-art19      : the applicant wishes the IPEA to start on the basis of
the      claims as amended under Art 19.
      amendment-art34      : the applicant wishes the IPEA to start on the basis of
the      claims as amended under Art. 34.
      amendment-art19-34: the applicant wishes the IPEA to start on the basis of
the      claims as amended under Art. 19 and Art. 34
-->
```

```
-->
<!ELEMENT the-claims EMPTY>

<!ATTLIST the-claims basis (originally |
                             amendment-art19 |
                             amendment-art34 |
                             amendment-art19-34 ) #REQUIRED >

<!--
The description is to be used as the basis for international preliminary
examination
-->
<!ELEMENT the-description EMPTY>

<!ATTLIST the-description basis (originally | amendment-art34 ) #REQUIRED >

<!--
The application is to be used as the basis for international preliminary
examination
-->
<!ELEMENT the-application EMPTY>

<!ATTLIST the-application basis (originally ) #REQUIRED >

<!--
Agent(s) elected specifically for procedures before the International
Preliminary Examining Authority (Rule 90.1(a)-(c))
-->
<!ELEMENT agents-for-demand (customer-number | agent+)>

<!ATTLIST agents-for-demand kind-agents (addition | new | current ) #REQUIRED >

<!--
Agent or common representative (Rules 90.1, 90.2)
-->
<!ELEMENT agent (addressbook+)>

<!ATTLIST agent sequence CDATA #REQUIRED
               rep-type (agent | attorney | common-representative )
#REQUIRED >

<!--
Application reference information: application number, country
(INID 21, ST.32:B210)
-->
<!ELEMENT application-reference (document-id)>

<!ATTLIST application-reference id ID #IMPLIED
                                appl-type CDATA #IMPLIED >

<!--
Document identification refers to patents (and patent applications) only.
See WIPO ST.14
-->
<!ELEMENT document-id (country , doc-number , kind? , name? , date?)>

<!ATTLIST document-id lang CDATA #IMPLIED >

<!--
Applicant information:
(INID 71, ST.32:B710)

attributes for applicant
sequence : sequence number of each applicant
```

```

    e.g, sequence="1"
app-type    : applicant type
              app-type="applicant" : the applicant is only applicant
              app-type="applicant-inventor" : the applicant is also inventor
designation: This person is applicant for the purpose of:
              designation="all"       : all designated states
              designation="all-except-us": all designated states except US
              designation="us-only"   : US only
              designation="as-indicated" : the states indicated in
                                          designated-states element
                                          under applicant element

-->
<!ELEMENT applicant (addressbook+ , nationality , residence , us-rights* ,
designated-states? , designated-states-as-inventor?)>

<!ATTLIST applicant  sequence    CDATA    #REQUIRED
                      app-type    (applicant | applicant-inventor )
#REQUIRED
                      designation (all | all-except-us | us-only | as-
indicated ) #REQUIRED >

<!--
This person is successor to the rights of an inventor who is deceased, insane, or
legally incapacitated, for the purposes of the designation of the United States
of America

-->
<!ELEMENT us-rights (#PCDATA)>

<!ATTLIST us-rights  to-dead-inventor CDATA #REQUIRED
                      kind             (heir |
                                      heiress |
                                      executor |
                                      executrix |
                                      estate |
                                      legal-representative |
                                      administrator |
                                      administratrix |
                                      legal-representatives |
                                      heirs |
                                      executors |
                                      legal-heirs ) #REQUIRED
                      id              ID    #IMPLIED >

<!--
ADDRESSBOOK GROUP:
Holds name and contact information for individuals/organizations

The LANG attribute is REQUIRED for certain document types,
e.g., the JPO PCT Request where names and addresses may be repeated in two
different languages. If no structure possible use text.

-->
<!ELEMENT addressbook ((%name_group; , address , phone* , fax* , email* , url* ,
ead* , dtext?) | text)>

<!ATTLIST addressbook id      ID      #IMPLIED
                      lang    CDATA   #IMPLIED >

<!--
Email address

Attribute:
email-purpose  reason for which email address is included:
informal      for informal contact only
general       for any type of communication
confirmation  any type of communication, but formal messages followed up
              by conventional mailing (to the extent offered)
main         where applicant desires this address to be used as primary

```

means of contact as a replacement of the use of conventional post (to the extent that an Office offers this) the default value depends on e-mail policies of the relevant Office. For PCT purposes as at 1 July 2008, no attribute being included is equivalent to 'informal'

```
-->
<!ELEMENT email (#PCDATA)>

<!ATTLIST email  email-purpose  (informal | general | advance | main ) #IMPLIED >

<!--
  Name:
  If no distinction or detail can be given.
  Also to be used for: personal (natural person) and corporate (legal entity) names
-->
<!ELEMENT name (#PCDATA)>

<!ATTLIST name  name-type  (legal | natural ) #IMPLIED >

<!--
  Title of the Invention:
  (INID 54, ST.32:B540/B542)

  Preferably two to seven words when in English or translated into English and
  precise. (Rule 4.3)

  Recommended id = 'invnt'
-->
<!ELEMENT invention-title (#PCDATA | b | i | u | o | sup | sub)*>

<!ATTLIST invention-title  id  ID  #IMPLIED
                           lang CDATA #IMPLIED >

<!--
  Underscore: style - single is default
-->
<!ELEMENT u (#PCDATA | b | i | smallcaps | sup | sub)*>

<!ATTLIST u  style  (single | double | dash | dots ) 'single' >

<!--
  Overscore: style - single is default
-->
<!ELEMENT o (#PCDATA | b | i | smallcaps | sup | sub)*>

<!ATTLIST o  style  (single |
                    double |
                    dash |
                    dots |
                    leftarrow |
                    rightarrow |
                    leftrightarrow ) 'single' >

<!--
  Signatories
-->
<!ELEMENT signatories (signatory+)>

<!--
  PCT/RO/101 Box No. X:
  The signature must be that of the applicant (if there are several applicants, all
  must sign); however, the signature may be that of the agent, or the common
  representative, where a separate power of attorney appointing the agent or the
```

common representative, respectively, or a copy of a general power of attorney is already in possession of the receiving Office, is furnished...
(PCT Rules 4.1(d), 4.15, and 90)

Indicate the capacity of the signer with 'signatory-capacity'

-->

<!ELEMENT signatory (%name_group; , address? , electronic-signature , signatory-capacity?)>

<!ATTLIST signatory
 id ID #IMPLIED>

<!--

 The capacity in which the person signs

-->

<!ELEMENT signatory-capacity (#PCDATA)>

<!--

 A PKI / PKCS #7 digital signature data type

-->

<!ELEMENT enhanced-signature (pkcs7)>

<!--

 PKCS7 digital signature

-->

<!ELEMENT pkcs7 EMPTY>

<!--

 A non-PKI electronic signature

-->

<!ELEMENT basic-signature (fax-image | text-string | click-wrap)>

<!--

 A simple 'signature';
 e.g., clicking a button labeled 'accept' or 'I agree'

-->

<!ELEMENT click-wrap EMPTY>

<!--

 A simple text string is to be used as the basic electronic signature;
 e.g., John Doe <text-string>/jd/</text-string>

-->

<!ELEMENT text-string (#PCDATA)>

<!--

 PCT/IPEA/401 BOX No.VI Check List

-->

<!ELEMENT demand-check-list (cl-translation-of-application-demand? , cl-amendments-art34? , cl-copy-amendments-art19? , cl-copy-statement-art19? , cl-letter-art19? , cl-letter? , cl-fee-calculation? , cl-separate-power-of-attorney? , cl-general-power-of-attorney? , cl-copy-general-power-of-attorney? , cl-lack-of-signature? , cl-priority-document? , cl-sequence-listing? , cl-sequence-listing-table? , cl-other-document*)>

```
<!--
  Sequential identification of priority documents.  PCT/RO/101 Box VI.
-->
<!ELEMENT sequence-number (#PCDATA)>

<!--
  Reference number of general power of attorney.
-->
<!ELEMENT ref-number (#PCDATA)>

<!--
  Checklist; a fee calculation sheet is being furnished
-->
<!ELEMENT cl-fee-calculation EMPTY>

<!--
  The basis on which the international preliminary examination will start
  (PCT/IPEA/401 Box IV, Rule 66.1)
-->
<!ELEMENT bases-examination (concerning-amendments , language-for-examination)>

<!--
  The basis of the international preliminary examination concerns amendments.
  (PCT/IPEA/401 Box IV, 1-3, Rules 53.9(a)(i) and 53.9(c))
-->
<!ELEMENT concerning-amendments (the-application? , the-description? , the-
sequence-listing? , the-claims? , the-drawings? , reverse-art19-amendment? ,
postpone-examination? , begin-examination-early? , postpone-examination-amendment-
time-limit? , postpone-examination-demand-time-limit?)>

<!--
  The applicant may elect to have the examination to start earlier than at the
  expiration of the applicable time limit under Rule 54bis.1(a) (Demand Box IV 4)
  This option will no longer be available from July 1, 2019, but is retained in
  the DTD for backwards compatibility.
-->
<!ELEMENT begin-examination-early EMPTY>

<!--
  "The applicant wishes the start of the international preliminary examination to
  be postponed until the expiration of 20 months from the priority date unless the
  International Preliminary Examining Authority receives a copy of any amendments
  made under Article 19 or a notice from the applicant that he does not wish to
  make such amendments (Rule 69.1(d))

  This element was named without a descriptor for the relevant time limit as
  being the time limit for amendments to be made and has been superseded by
  the element "postpone-examination-amendment-time-limit".

  This option will no longer be available from July 1, 2019, but is retained in
  the DTD for backwards compatibility.
-->
<!ELEMENT postpone-examination EMPTY>

<!--
  "The applicant wishes the start of the international preliminary examination to
  be postponed until the expiration of 20 months from the priority date unless the
```



```
International Preliminary Examining Authority receives a copy of any amendments
made under Article 19 or a notice from the applicant that he does not wish to
make such amendments (Rule 69.1(d))"
-->
<!ELEMENT postpone-examination-amendment-time-limit EMPTY>

<!--
"The applicant wishes to postpone the start of the international preliminary
examination until the expiration of the applicable time limit under Rule
54bis.1(a)."
```

```
-->
<!ELEMENT file-reference-id (#PCDATA)>

<!--
  Applicants information:
    At least one of the applicants named must be a resident or national of a PCT
    Contracting State for which the receiving Office acts.
-->
<!ELEMENT applicants (applicant+)>

<!--
  Rule 4.6(c):
    "The request may, for different designated states, indicate different persons
    as inventors where, in this respect, the requirements of the national laws of
    the designated States are not the same. In such a case, the request shall
    contain a separate statement for each designated State or group of States in
    which a particular person, or the same person, is to be considered the
    inventor, or in which particular persons, or the same persons, are to be
    considered the inventors."
-->
<!ELEMENT designated-states-as-inventor (country* , (region , country+)*)>

<!--
  Indication of specific Contracting States in or for which the applicant is
  seeking protection for his invention
  (Rule 4.9(a))
-->
<!ELEMENT designated-states (country* , (region , country+)*)>

<!--
  The region for which protection or exclusion (depending upon context) is desired.
-->
<!ELEMENT region (country)>

<!--
  Country of residence
-->
<!ELEMENT residence (country)>

<!--
  Country of nationality
-->
<!ELEMENT nationality (country)>

<!--
  Descriptive text
-->
<!ELEMENT dtext (#PCDATA)>

<!--
  Universal Resource Locator; e.g. www.wipo.int
-->
<!ELEMENT url (#PCDATA)>
```

```
<!--  
    Fax number  
-->  
<!ELEMENT fax (#PCDATA)>  
  
<!--  
    Telephone number  
-->  
<!ELEMENT phone (#PCDATA)>  
  
<!--  
    Electronic address use for other than email  
-->  
<!ELEMENT ead (#PCDATA)>  
  
<!--  
    Address components:  
    Address formats differ from country to country  
    If no structure possible use text  
-->  
<!ELEMENT address (%address_group;)>  
  
<!--  
    If no structure is possible, enter text (without markup)  
-->  
<!ELEMENT text (#PCDATA)>  
  
<!--  
    Country: use ST.3 country code; e.g. DE, FR, GB, NL, etc.  
    Also includes EP, WO  
-->  
<!ELEMENT country (#PCDATA)>  
  
<!--  
    Postal code or zip code  
-->  
<!ELEMENT postcode (#PCDATA)>  
  
<!--  
    Region of country; e.g., state, province, etc.  
-->  
<!ELEMENT state (#PCDATA)>  
  
<!--  
    County, parish, department, etc (mainly UK, USA)  
-->  
<!ELEMENT county (#PCDATA)>  
  
<!--  
    City or town name
```

```
-->
<!ELEMENT city (#PCDATA)>

<!--
  Street may contain house number or name
-->
<!ELEMENT street (#PCDATA)>

<!--
  Building information in address; e.g., Hoffman building
-->
<!ELEMENT building (#PCDATA)>

<!--
  Address floor; e.g., 10th
-->
<!ELEMENT address-floor (#PCDATA)>

<!--
  Address room; e.g., Room 55B
-->
<!ELEMENT room (#PCDATA)>

<!--
  Post Office Box number
-->
<!ELEMENT pobox (#PCDATA)>

<!--
  Organizational mail code
-->
<!ELEMENT mailcode (#PCDATA)>

<!--
  Address, fifth line
-->
<!ELEMENT address-5 (#PCDATA)>

<!--
  Address, fourth line
-->
<!ELEMENT address-4 (#PCDATA)>

<!--
  Address, third line
-->
<!ELEMENT address-3 (#PCDATA)>

<!--
  Address, second line
```

```
-->
<!ELEMENT address-2 (#PCDATA)>

<!--
  Address, first line
-->
<!ELEMENT address-1 (#PCDATA)>

<!--
  Registered number
-->
<!ELEMENT registered-number (#PCDATA)>

<!--
  Synonym
-->
<!ELEMENT synonym (#PCDATA)>

<!--
  Department, division, section, etc. name
-->
<!ELEMENT department (#PCDATA)>

<!--
  Organisation name or company name
-->
<!ELEMENT orgname (#PCDATA)>

<!--
  Role; e.g., President, Chairman, etc.
-->
<!ELEMENT role (#PCDATA)>

<!--
  SDOBI : Individual id
-->
<!ELEMENT iid (#PCDATA)>

<!--
  Name suffix (e.g., II, Jr., Dip., Ing., BA, etc.)
-->
<!ELEMENT suffix (#PCDATA)>

<!--
  Middle name(s) or initial(s)
-->
<!ELEMENT middle-name (#PCDATA)>

<!--
  First or given name(s), initial(s)
```

```
-->
<!ELEMENT first-name (#PCDATA)>

<!--
  Last, family, surname
-->
<!ELEMENT last-name (#PCDATA)>

<!--
  Title: e.g., Mr., Mrs., Dr. etc
-->
<!ELEMENT prefix (#PCDATA)>

<!--
  Bold formatting for text
-->
<!ELEMENT b (#PCDATA | i | u | o | smallcaps | sup | sub)*>

<!--
  Italic formatting for text
-->
<!ELEMENT i (#PCDATA | b | u | o | smallcaps | sup | sub)*>

<!--
  Small capitals
-->
<!ELEMENT smallcaps (#PCDATA | b | u | i | o)*>

<!--
  Subscripted text
-->
<!ELEMENT sub (#PCDATA | b | u | i | o | sup2 | sub2)*>

<!--
  Superscripted text
-->
<!ELEMENT sup (#PCDATA | b | u | i | o | sup2 | sub2)*>

<!--
  Subscripted text
-->
<!ELEMENT sub2 (#PCDATA | b | u | i | o)*>

<!--
  Superscripted text
-->
<!ELEMENT sup2 (#PCDATA | b | u | i | o)*>

<!--
  Checklist; a letter accompanying the amendments under Article 19 is being
  furnished. See PCT/IPEA/401 box VI
-->
```

```
-->
<!ELEMENT cl-letter-art19 EMPTY>
<!ATTLIST cl-letter-art19  quantity  CDATA  #REQUIRED
                        page-count CDATA  #IMPLIED >

<!--
  the sequence listing is to be used as the basis for international preliminary
  examination.
  Attribute 'basis':
    originally :
the
                        the applicant wishes the IPEA to start on the basis of
the
                        sequence listing as originally filed
  amendment-art34-st25:
                        the applicant wishes the IPEA to start on the basis of
the
                        sequence listing as amended under Art. 34
                        in the form of an AnnexC/ST.25 text file.
  amendment-art34-paper-or-image:
the
                        the applicant wishes the IPEA to start on the basis of
the
                        sequence listing as amended under Art. 34
                        on paper or in the form of an image file.
-->
<!ELEMENT the-sequence-listing EMPTY>
<!ATTLIST the-sequence-listing  basis  (originally |
                        amendment-art34-st25 |
                        amendment-art34-paper-or-image)  #REQUIRED >
```

5.2 Informations reçues par l'administration chargée de l'examen préliminaire international à partir du formulaire de demande d'examen préliminaire international

```
<?xml version='1.0' encoding='UTF-8' ?>

<!ENTITY % name_group "((name | (prefix? , (last-name | orgname) , first-name? ,
middle-name? , suffix? , iid? , role? , orgname? , department? , synonym*)) ,
registered-number?)">

<!ENTITY % address_group "((address-1? , address-2? , address-3? , address-4? ,
address-5? , mailcode? , pobox? , room? , address-floor? , building? , street? ,
city? , county? , state? , postcode? , country) | text)">

<!--
*****
*   ipea-demand-receiving-info v1.5    2017  JULY                               *
*****
*   PUBLIC "-//WIPO//DTD IPEA DEMAND RECEIVING INFO 1.5//EN"                 *
*   "ipea-demand-receiving-info-v1-5.dtd" *
*****
*   https://www.wipo.int/pct-safe/en/resources/1.15/                          *
*   ipea-demand-receiving-info-v1-5.dtd *
*****
*   contacts:                                                                    *
*   WIPO: Yuya USHIDA; yuya.ushida@wipo.int *
*****
*   revision history                                                              *
*****
Asahi HASEBE : 01/07/17 incorporated changes from PFC
..changed version number from v1.4 to v1.5
..added an attribute "id" to signatory
Asahi HASEBE : 01/07/14 to update DTD in alignment with the latest PCT Form IPEA401
..changed version number from v1.3 to v1.4
..added an attribute 'page-count' to cl-letter. (PFC14/001)
..added an attribute 'page-count' to cl-copy-amendments-art19. (PFC14/001)
..added an element named as cl-letter-art19 to ipea-check-list. (PFC14/001)
..added an element ipea-fee-info and its child elements to ipea-demand-receiving-
```

```
info. (PFC14/001)
MO: 01/01/07 incorporated changes from PFCs:
..changed version number from v1.2 to v1.3
..added element 'address-4' to address (PFC06/005)
..added element 'address-5' to address (PFC06/005)
HT: 16/12/03 incorporated changes from PFCs:
..changed version number from v1.0 to v1.2
..added element 'receipt-after-pct-rule54bis1-a', 'receipt-within-pct-rule54bis1-
a',
'receipt-after-pct-rule54bis1-a-excused' to ipea-info
2003/06/01
..released version number as v1.0
*****

Attributes for iper
lang = language of application - use ISO639 language code
dtd-version = dtd version number
date-produced = YYYYMMDD e.g, 20011230
ro = Receiving office name, country code ST.3

-->
<!ELEMENT ipea-demand-receiving-info (ipea , received-at-ipea , ipea-info , ipea-
check-list , ipea-fee-info?, signatories?)>

<!ATTLIST ipea-demand-receiving-info lang CDATA #REQUIRED
dtd-version CDATA #IMPLIED
file CDATA #IMPLIED
date-produced CDATA #IMPLIED
ipea CDATA #REQUIRED
status CDATA #IMPLIED >

<!--
A signature represented by electronic means
-->
<!ELEMENT electronic-signature (basic-signature | enhanced-signature)>

<!ATTLIST electronic-signature date CDATA #REQUIRED
place-signed CDATA #IMPLIED >

<!--
A TIFF image of a signature
-->
<!ELEMENT fax-image EMPTY>

<!ATTLIST fax-image file CDATA #REQUIRED >

<!--
Name:
If no distinction or detail can be given.
Also to be used for: personal (natural person) and corporate (legal entity) names
-->
<!ELEMENT name (#PCDATA)>

<!ATTLIST name name-type (legal | natural ) #IMPLIED >

<!--
Checklist; an additional document is being furnished
-->
<!ELEMENT cl-other-document (#PCDATA)>

<!ATTLIST cl-other-document page-count CDATA #IMPLIED >

<!--
Checklist; a letter is being furnished. See PCT/IPEA/401 box VI
-->
```



```
<!ELEMENT cl-letter EMPTY>

<!ATTLIST cl-letter  quantity CDATA #REQUIRED
                    page-count CDATA #IMPLIED >

<!--
  Checklist; a copy of statement under Article 19 is being furnished
-->
<!ELEMENT cl-copy-statement-art19 EMPTY>

<!ATTLIST cl-copy-statement-art19  quantity  CDATA #REQUIRED
                                    page-count CDATA #IMPLIED >

<!--
  Checklist; copy of amendments made under Article 19 is being furnished
-->
<!ELEMENT cl-copy-amendments-art19 EMPTY>

<!ATTLIST cl-copy-amendments-art19  quantity CDATA #REQUIRED
                                    page-count CDATA #IMPLIED >

<!--
  Checklist; amendments made under Article 34 are being furnished
-->
<!ELEMENT cl-amendments-art34 EMPTY>

<!ATTLIST cl-amendments-art34  quantity  CDATA #REQUIRED
                                page-count CDATA #IMPLIED >

<!--
  Check-list; a translation of application  is being furnished
-->
<!ELEMENT cl-translation-of-application-demand EMPTY>

<!ATTLIST cl-translation-of-application-demand  quantity  CDATA #REQUIRED
                                                lang          CDATA #IMPLIED
                                                page-count CDATA #IMPLIED >

<!--
  PCT/IPEA/401
  The date of receipt of the demand is AFTER the expiration of 19 months from the
  priority date
-->
<!ELEMENT receipt-after-19month EMPTY>

<!ATTLIST receipt-after-19month  informed  (yes | no ) #IMPLIED >

<!--
  Signatories
-->
<!ELEMENT signatories (signatory+)>

<!--
  PCT/RO/101 Box No. X:
  The signature must be that of the applicant (if there are several applicants, all
  must sign); however, the signature may be that of the agent, or the common
  representative, where a separate power of attorney appointing the agent or the
  common representative, respectively, or a copy of a general power of attorney is
  already in possession of the receiving Office, is furnished...
  (PCT Rules 4.1(d), 4.15, and 90)

  Indicate the capacity of the signer with 'signatory-capacity'
```

```
-->
<!ELEMENT signatory (%name_group; , address? , electronic-signature , signatory-
capacity?)>

<!ATTLIST signatory
      id ID #IMPLIED>

<!--
  The capacity in which the person signs
-->
<!ELEMENT signatory-capacity (#PCDATA)>

<!--
  A PKI / PKCS #7 digital signature data type
-->
<!ELEMENT enhanced-signature (pkcs7)>

<!--
  PKCS7 digital signature
-->
<!ELEMENT pkcs7 EMPTY>

<!--
  A non-PKI electronic signature
-->
<!ELEMENT basic-signature (fax-image | text-string | click-wrap)>

<!--
  A simple 'signature';
  e.g., clicking a button labeled 'accept' or 'I agree'
-->
<!ELEMENT click-wrap EMPTY>

<!--
  A simple text string is to be used as the basic electronic signature;
  e.g., John Doe <text-string>/jd/</text-string>
-->
<!ELEMENT text-string (#PCDATA)>

<!--
  Address components:
  Address formats differ from country to country
  If no structure possible use text
-->
<!ELEMENT address (%address_group;)>

<!--
  If no structure is possible, enter text (without markup)
-->
<!ELEMENT text (#PCDATA)>

<!--
  Postal code or zip code
```

```
-->
<!ELEMENT postcode (#PCDATA)>

<!--
  Region of country; e.g., state, province, etc.
-->
<!ELEMENT state (#PCDATA)>

<!--
  County, parish, department, etc (mainly UK, USA)
-->
<!ELEMENT county (#PCDATA)>

<!--
  City or town name
-->
<!ELEMENT city (#PCDATA)>

<!--
  Street may contain house number or name
-->
<!ELEMENT street (#PCDATA)>

<!--
  Building information in address; e.g., Hoffman building
-->
<!ELEMENT building (#PCDATA)>

<!--
  Address floor; e.g., 10th
-->
<!ELEMENT address-floor (#PCDATA)>

<!--
  Address room; e.g., Room 55B
-->
<!ELEMENT room (#PCDATA)>

<!--
  Post Office Box number
-->
<!ELEMENT pobox (#PCDATA)>

<!--
  Organizational mail code
-->
<!ELEMENT mailcode (#PCDATA)>

<!--
  Address, fifth line
```

```
-->
<!ELEMENT address-5 (#PCDATA)>

<!--
  Address, fourth line
-->
<!ELEMENT address-4 (#PCDATA)>

<!--
  Address, third line
-->
<!ELEMENT address-3 (#PCDATA)>

<!--
  Address, second line
-->
<!ELEMENT address-2 (#PCDATA)>

<!--
  Address, first line
-->
<!ELEMENT address-1 (#PCDATA)>

<!--
  Registered number
-->
<!ELEMENT registered-number (#PCDATA)>

<!--
  Synonym
-->
<!ELEMENT synonym (#PCDATA)>

<!--
  Department, division, section, etc. name
-->
<!ELEMENT department (#PCDATA)>

<!--
  Organisation name or company name
-->
<!ELEMENT orgname (#PCDATA)>

<!--
  Role; e.g., President, Chairman, etc.
-->
<!ELEMENT role (#PCDATA)>

<!--
  SDOBI : Individual id
```

```
-->
<!ELEMENT iid (#PCDATA)>

<!--
  Name suffix (e.g., II, Jr., Dip., Ing., BA, etc.)
-->
<!ELEMENT suffix (#PCDATA)>

<!--
  Middle name(s) or initial(s)
-->
<!ELEMENT middle-name (#PCDATA)>

<!--
  First or given name(s), initial(s)
-->
<!ELEMENT first-name (#PCDATA)>

<!--
  Last, family, surname
-->
<!ELEMENT last-name (#PCDATA)>

<!--
  Title: e.g., Mr., Mrs., Dr. etc
-->
<!ELEMENT prefix (#PCDATA)>

<!--
  Checklist of items received with the demand by the International Preliminary
  Examination Authority
-->
<!ELEMENT ipea-check-list (cl-translation-of-application-demand? , cl-amendments-
art34? , cl-copy-amendments-art19? , cl-copy-statement-art19? , cl-letter-art19?,
cl-letter? , cl-other-document*)>

<!--
  Information relating to the receipt of the demand by the International
  Preliminary Examination Authority
-->
<!ELEMENT ipea-info (date-of-actual-receipt , receipt-pct-rule60-1? , (receipt-
after-19month | receipt-pct-rule80-5 | receipt-pct-rule82 | receipt-after-pct-
rule54bis1-a | receipt-within-pct-rule54bis1-a | receipt-after-pct-rule54bis1-a-
excused))>

<!--
  PCT Rule 54bis1-a: Time Limit for Making a Demand
-->
<!ELEMENT receipt-after-pct-rule54bis1-a-excused EMPTY>

<!--
  PCT Rule 54bis1-a: Time Limit for Making a Demand
```

```
-->
<!ELEMENT receipt-within-pct-rule54bis1-a EMPTY>

<!--
  PCT Rule 54bis1-a: Time Limit for Making a Demand
-->
<!ELEMENT receipt-after-pct-rule54bis1-a EMPTY>

<!--
  PCT Rule 82: Irregularities in the Mail Service
-->
<!ELEMENT receipt-pct-rule82 EMPTY>

<!--
  PCT Rule 80.5: Expiration on a Non-Working Day
  "If the expiration of any period during which any document or fee must reach
  a national Office or intergovernmental organization falls on a day on which
  such Office or organization is not open to the public for the purposes of
  transaction of official business, or on which ordinary mail is not delivered in
  the locality in which such Office or organization is situated, the period shall
  expire on the next subsequent business day on which neither of the said two
  circumstances exists."
-->
<!ELEMENT receipt-pct-rule80-5 EMPTY>

<!--
  PCT Rule 60.1: Defects in the Demand
-->
<!ELEMENT receipt-pct-rule60-1 (date)>

<!--
  Date of actual receipt of the purported international application.
  (ST.32:B234)
  The date of receipt will be determined according to the usual principles
  applicable to the filing of applications on paper, including filing by electronic
  means (such as by facsimile transmission), that is, based on the date
  prevailing at the location of the Office at the time when the complete
  transmission of the application has been received.
-->
<!ELEMENT date-of-actual-receipt (date)>

<!--
  Date of receipt by International Preliminary Examination Authority
-->
<!ELEMENT received-at-ipea (date)>

<!--
  Date: components of a date. Format: YYYYMMDD
-->
<!ELEMENT date (#PCDATA)>

<!--
  International Preliminary Examination Authority
```

```
-->
<!ELEMENT ipea (country)>

<!--
  Country: use ST.3 country code; e.g. DE, FR, GB, NL, etc.
  Also includes EP, WO
-->
<!ELEMENT country (#PCDATA)>

<!--
  Checklist; a letter accompanying the amendments under Article 19 is being
  furnished. See PCT/IPEA/401 box VI
-->
<!ELEMENT cl-letter-art19 EMPTY>
<!ATTLIST cl-letter-art19 quantity CDATA #REQUIRED
           page-count CDATA #IMPLIED >

<!--
  Information written in "For International Preliminary Examining Authority use
  only"
  of FEE CALCULATION SHEET - Annex to the Demand (IPEA401)
-->
<!ELEMENT ipea-fee-info (received-at-ipea, ipea-preliminary-examin-fee-info?, ipea-
handling-fee-info?, ipea-amount-total-info?)>

<!--
  IPEA's note regarding with Preliminary Examination Fee of FEE CALCULATION SHEET
  of Chapter II Demand.
-->
<!ELEMENT ipea-preliminary-examin-fee-info (#PCDATA)>

<!--
  IPEA's note regarding with Handling Fee of FEE CALCULATION SHEET of Chapter II
  Demand.
-->
<!ELEMENT ipea-handling-fee-info (#PCDATA)>

<!--
  IPEA's note regarding with Amount Total of FEE CALCULATION SHEET of Chapter II
  Demand.
-->
<!ELEMENT ipea-amount-total-info (#PCDATA)>
```

5.3 Feuille de taxes du chapitre II

```
<?xml version='1.0' encoding='UTF-8' ?>

<!ENTITY % name_group "((name | (prefix? , (last-name | orgname) , first-name? ,
middle-name? , suffix? , iid? , role? , orgname? , department? , synonym*)) ,
registered-number?)">

<!ENTITY % address_group "((address-1? , address-2? , address-3? , address-4? ,
address-5? , mailcode? , pobox? , room? , address-floor? , building? , street? ,
city? , county? , state? , postcode? , country) | text)">

<!--
*****
* fee-sheet-chapter2 v1.5      2019  APRIL                               *
*****
* PUBLIC "-//WIPO//DTD FEE SHEET CHAPTER2 1.5//EN"                       *
*                                     "fee-sheet-chapter2-v1-5.dtd"         *
-->
```

```

*****
* https://www.wipo.int/pct-safe/en/resources/1.15/fee-sheet-chapter2-v1-5.dtd *
*****
* contacts: *
* WIPO: Yuya USHIDA; yuya.ushida@wipo.int *
*****
* revision history *
*****
Yuya USHIDA : 01/04/19 incorporated changes from PFC
..changed version number from v1.4 to v1.5
..added element 'reimbursement-deposit-account' to fee-sheet-chapter2
Asahi HASEBE : 01/07/17 incorporated changes from PFC
..changed version number from v1.3 to v1.4
..added an attribute "id" to signatory
.. corrected typos in comments
SY: 01/04/10 incorporated changes from PFC
..changed version number from v1.2 to v1.3
..added element 'credit-card' to payment-mode (PFC09/007)
MO: 01/01/07 incorporated changes from PFCs:
..changed version number from v1.1 to v1.2
..implementation of PFC06/001
..added element 'address-4' to address (PFC06/005)
..added element 'address-5' to address (PFC06/005)
HT: 14/12/04 incorporated changes from PFCs:
..changed attribute he, wi of doc-page from 'NMTOKEN' to 'CDATA'
..added element 'later-payment' to payment-mode
..added attribute 'ocr' to doc-page
..added attribute 'id' to application-reference
HT: 20/07/04 incorporated changes from PFCs:
..changed version number from v1.0 to v1.1
..added value 'national-office', 'regional-office' to attribute produced-by of root
element
2003/06/01
..released version number as v1.0
*****

Fee calculation sheet annex to the PCT request (root element)
Attributes:
  lang          = language of application - use ISO639 language code
  dtd-version   = dtd version number
  file          = filename of the whole application
  status        = status of the application; values: new = new application
  date-produced = YYYYMMDD e.g, 20011230 if desired, 12 characters maximum
  ro            = Receiving office name, country code ST.3
  produced-by   = creator of this document

-->
<!ELEMENT fee-sheet-chapter2 ((application-reference? , file-reference-id? ,
applicant-name , further-applicant? , currency , preliminary-examin-fee , handling-
fee , amount-total , payment-mode , deposit-account-ipea? , reimbursement-deposit-
account*) | doc-page+)>

<!ATTLIST fee-sheet-chapter2 lang          CDATA #REQUIRED
                             dtd-version   CDATA #IMPLIED
                             file          CDATA #IMPLIED
                             produced-by   (applicant |
                                             RO |
                                             ISA |
                                             IPEA |
                                             IB |
                                             DO |
                                             EO |
                                             national-office |
                                             regional-office ) #REQUIRED
                             date-produced CDATA #IMPLIED
                             ipea         CDATA #REQUIRED
                             status       CDATA #IMPLIED >

<!--
doc-page - DOCUMENT or PAGE

```


This is primarily to be used when data for the whole or major sections of an application are in image format OR other formats such as pdf.

Page range attributes are given when required

pp - page range

ppf - first page

ppl - last page (for pdf).

The 'img' may also be used for complete pages, e.g. in drawings

Recommended id = docp0001, docp0002, etc.

Attributes "he" and "wi" mean height and width.

-->

<!ELEMENT doc-page EMPTY>

```
<!ATTLIST doc-page id ID #IMPLIED
                  he CDATA #REQUIRED
                  wi CDATA #REQUIRED
                  type (jpg | pdf | tif ) #REQUIRED
                  alt CDATA #IMPLIED
                  pp CDATA #IMPLIED
                  ppf CDATA #IMPLIED
                  ppl CDATA #IMPLIED
                  file CDATA #REQUIRED
                  ocr CDATA #IMPLIED
                  color (color | bw ) #IMPLIED
                  orientation (portrait | landscape ) 'portrait' >
```

<!--

A signature represented by electronic means

-->

<!ELEMENT electronic-signature (basic-signature | enhanced-signature)>

```
<!ATTLIST electronic-signature date CDATA #REQUIRED
                                place-signed CDATA #IMPLIED >
```

<!--

A TIFF image of a signature

-->

<!ELEMENT fax-image EMPTY>

```
<!ATTLIST fax-image file CDATA #REQUIRED >
```

<!--

Credit card used as payment method

-->

<!ELEMENT credit-card EMPTY>

```
<!ATTLIST credit-card number CDATA #REQUIRED
                       expires CDATA #REQUIRED
                       name CDATA #IMPLIED
                       postal-code CDATA #IMPLIED >
```

<!--

Application reference information: application number, country
(INID 21, ST.32:B210)

-->

<!ELEMENT application-reference (document-id)>

```
<!ATTLIST application-reference id ID #IMPLIED
                                appl-type CDATA #IMPLIED >
```

<!--

Document identification refers to patents (and patent applications) only.

```
See WIPO ST.14

-->
<!ELEMENT document-id (country , doc-number , kind? , name? , date?)>
<!ATTLIST document-id lang CDATA #IMPLIED >

<!--
Name:
If no distinction or detail can be given.
Also to be used for: personal (natural person) and corporate (legal entity) names
-->
<!ELEMENT name (#PCDATA)>
<!ATTLIST name name-type (legal | natural ) #IMPLIED >

<!--
Authorization to charge or credit deposit account
-->
<!ELEMENT deposit-account-ipea (authorization-ipea , ipea , account-no , date ,
%name_group; , signatories?)>

<!--
Deposit account number
-->
<!ELEMENT account-no (#PCDATA)>

<!--
Instruction to reimburse to a deposit account
-->
<!ELEMENT reimbursement-deposit-account (ip-office, account-no, date,
%name_group;)>

<!--
IP Office code (ST.3 country code, including the regional authorities)
-->
<!ELEMENT ip-office (#PCDATA)>

<!--
Signatories
-->
<!ELEMENT signatories (signatory+)>

<!--
PCT/RO/101 Box No. X:
The signature must be that of the applicant (if there are several applicants, all
must sign); however, the signature may be that of the agent, or the common
representative, where a separate power of attorney appointing the agent or the
common representative, respectively, or a copy of a general power of attorney is
already in possession of the receiving Office, is furnished...
(PCT Rules 4.1(d), 4.15, and 90)

Indicate the capacity of the signer with 'signatory-capacity'
-->
<!ELEMENT signatory (%name_group; , address? , electronic-signature , signatory-
capacity?)>

<!ATTLIST signatory
id ID #IMPLIED>
```

```
<!--  
  The capacity in which the person signs  
-->  
<!ELEMENT signatory-capacity (#PCDATA)>  
  
<!--  
  A PKI / PKCS #7 digital signature data type  
-->  
<!ELEMENT enhanced-signature (pkcs7)>  
  
<!--  
  PKCS7 digital signature  
-->  
<!ELEMENT pkcs7 EMPTY>  
  
<!--  
  A non-PKI electronic signature  
-->  
<!ELEMENT basic-signature (fax-image | text-string | click-wrap)>  
  
<!--  
  A simple 'signature';  
  e.g., clicking a button labeled 'accept' or 'I agree'  
-->  
<!ELEMENT click-wrap EMPTY>  
  
<!--  
  A simple text string is to be used as the basic electronic signature;  
  e.g., John Doe <text-string>/jd/</text-string>  
-->  
<!ELEMENT text-string (#PCDATA)>  
  
<!--  
  Address components:  
  Address formats differ from country to country  
  If no structure possible use text  
-->  
<!ELEMENT address (%address_group;)>  
  
<!--  
  If no structure is possible, enter text (without markup)  
-->  
<!ELEMENT text (#PCDATA)>  
  
<!--  
  Postal code or zip code  
-->  
<!ELEMENT postcode (#PCDATA)>  
  
<!--  
  Region of country; e.g., state, province, etc.
```

```
-->
<!ELEMENT state (#PCDATA)>

<!--
  County, parish, department, etc (mainly UK, USA)
-->
<!ELEMENT county (#PCDATA)>

<!--
  City or town name
-->
<!ELEMENT city (#PCDATA)>

<!--
  Street may contain house number or name
-->
<!ELEMENT street (#PCDATA)>

<!--
  Building information in address; e.g., Hoffman building
-->
<!ELEMENT building (#PCDATA)>

<!--
  Address floor; e.g., 10th
-->
<!ELEMENT address-floor (#PCDATA)>

<!--
  Address room; e.g., Room 55B
-->
<!ELEMENT room (#PCDATA)>

<!--
  Post Office Box number
-->
<!ELEMENT pobox (#PCDATA)>

<!--
  Organizational mail code
-->
<!ELEMENT mailcode (#PCDATA)>

<!--
  Address, fifth line
-->
<!ELEMENT address-5 (#PCDATA)>

<!--
  Address, fourth line
```

```
-->
<!ELEMENT address-4 (#PCDATA)>

<!--
  Address, third line
-->
<!ELEMENT address-3 (#PCDATA)>

<!--
  Address, second line
-->
<!ELEMENT address-2 (#PCDATA)>

<!--
  Address, first line
-->
<!ELEMENT address-1 (#PCDATA)>

<!--
  International Preliminary Examination Authority
-->
<!ELEMENT ipea (country)>

<!--
  Authorization for International Preliminary Examining Authority to charge or
  credit deposit account
-->
<!ELEMENT authorization-ipea (total-fee? , deficiency-credit?)>

<!--
  Authorization to charge any deficiency or credit any overpayment
-->
<!ELEMENT deficiency-credit EMPTY>

<!--
  Authorization to charge the total fees indicated above
-->
<!ELEMENT total-fee EMPTY>

<!--
  The total amount due for each fee group;
  e.g., search fees, transmittal fees, etc.
-->
<!ELEMENT amount-total (#PCDATA)>

<!--
  Accrues to the International Bureau for carrying out various tasks,
  e.g., translation of international preliminary examination report
  (Rule 57.1)
-->
<!ELEMENT handling-fee (amount-each , payment-mode)>
```

```
<!--
  Preliminary examination fee (Rule 58.1)
-->
<!ELEMENT preliminary-examin-fee (amount-each , payment-mode)>

<!--
  Mode of payment
-->
<!ELEMENT payment-mode (charge | postal-order | cash | coupons | cheque | bank-
draft | stamps | other | later-payment | credit-card)>

<!--
  Authorization to later payment
-->
<!ELEMENT later-payment EMPTY>

<!--
  Other method by which prior art was disclosed to the public
-->
<!ELEMENT other (#PCDATA)>

<!--
  Revenue stamps used as mode of payment
-->
<!ELEMENT stamps EMPTY>

<!--
  Bank draft to be used as mode of payment
-->
<!ELEMENT bank-draft EMPTY>

<!--
  Cheque used as payment method
-->
<!ELEMENT cheque EMPTY>

<!--
  Coupons used as mode of payment
-->
<!ELEMENT coupons EMPTY>

<!--
  Cash used as payment method
-->
<!ELEMENT cash EMPTY>

<!--
  Postal money order used as mode of payment
-->
<!ELEMENT postal-order EMPTY>
```

```
<!--
  Authorization to charge deposit account
-->
<!ELEMENT charge EMPTY>

<!--
  The amount of each of the fees
-->
<!ELEMENT amount-each (#PCDATA)>

<!--
  Type of currency for payment
-->
<!ELEMENT currency (#PCDATA)>

<!--
  The presence of this element indicates that there is more than one applicant.
  (ST.32:B512/B522)
-->
<!ELEMENT further-applicant EMPTY>

<!--
  The name of the applicant (without address information)
  (ST.32:B711)
-->
<!ELEMENT applicant-name (%name_group;)>

<!--
  Registered number
-->
<!ELEMENT registered-number (#PCDATA)>

<!--
  Synonym
-->
<!ELEMENT synonym (#PCDATA)>

<!--
  Department, division, section, etc. name
-->
<!ELEMENT department (#PCDATA)>

<!--
  Organisation name or company name
-->
<!ELEMENT orgname (#PCDATA)>

<!--
  Role; e.g., President, Chairman, etc.
-->
```

```
-->
<!ELEMENT role (#PCDATA)>

<!--
  SDOBI : Individual id
-->
<!ELEMENT iid (#PCDATA)>

<!--
  Name suffix (e.g., II, Jr., Dip., Ing., BA, etc.)
-->
<!ELEMENT suffix (#PCDATA)>

<!--
  Middle name(s) or initial(s)
-->
<!ELEMENT middle-name (#PCDATA)>

<!--
  First or given name(s), initial(s)
-->
<!ELEMENT first-name (#PCDATA)>

<!--
  Last, family, surname
-->
<!ELEMENT last-name (#PCDATA)>

<!--
  Title: e.g., Mr., Mrs., Dr. etc
-->
<!ELEMENT prefix (#PCDATA)>

<!--
  Applicant's or agent's file reference, if desired, 12 characters maximum
-->
<!ELEMENT file-reference-id (#PCDATA)>

<!--
  Date: components of a date.  Format: YYYYMMDD
-->
<!ELEMENT date (#PCDATA)>

<!--
  Document kind code; e.g., A1
  (INID 13, ST.32:B130)
-->
<!ELEMENT kind (#PCDATA)>

<!--
  The number of the referenced patent (or application) document
```



```
-->
<!ELEMENT doc-number (#PCDATA)>

<!--
  Country: use ST.3 country code; e.g. DE, FR, GB, NL, etc.
  Also includes EP, WO
-->
<!ELEMENT country (#PCDATA)>
```

5.4 Données bibliographiques du document de priorité

```
<?xml version='1.0' encoding='UTF-8' ?>

<!ENTITY % name_group "((name | (prefix? , (last-name | orgname) , first-name? ,
middle-name? , suffix? , iid? , role? , orgname? , department? , synonym*)) ,
registered-number?)">

<!ENTITY % address_group "((address-1? , address-2? , address-3? , address-4? ,
address-5? , mailcode? , pobox? , room? , address-floor? , building? , street? ,
city? , county? , state? , postcode? , country) | text)">

<!--
*****
*   priority-doc v1.3      2017  JULY                                     *
*****
*   PUBLIC "-//WIPO//DTD PRIORITY DOC 1.3//EN" "priority-doc-v1-3.dtd" *
*****
*   https://www.wipo.int/pct-safe/en/resources/1.15/priority-doc-v1-3.dtd *
*****
*   contacts:                                                         *
*   WIPO: Yuya USHIDA; yuya.ushida@wipo.int                          *
*****
*   revision history                                                 *
*****
Asahi HASEBE : 01/07/17 incorporated changes from PFC
..changed version number from v1.2 to v1.3
..added an attribute "id" to signatory
MO: 01/01/07 incorporated changes from PFCs:
..changed version number from v1.1 to v1.2
..implementation of PFC06/001
..added element 'address-4' to address (PFC06/005)
..added element 'address-5' to address (PFC06/005)
HT: 14/12/04 incorporated changes from PFCs:
..added attribute 'id' to application-reference
HT: 20/07/04 incorporated changes from PFCs:
..changed version number from v1.0 to v1.1
..added value 'national-office', 'regional-office' to attribute produced-by of root
element
2003/06/01
..released version number as v1.0
*****

PRIORITY DOCUMENT

Attributes:
  lang           = language of application - use ISO639 language code
  dtd-version    = dtd version number
  file           = filename of the whole application
  status         = status of the application; values: new = new application
  produced-by   = creator of this document
  date-produced = YYYYMMDD e.g. 20011230 if desired, 12 characters maximum

-->
<!ELEMENT priority-doc (application-reference , pdoc-info , signatories? , pdoc-
```

```
body-doc+ , pdoc-certificate-doc*)>

<!ATTLIST priority-doc lang CDATA #REQUIRED
                        dtd-version CDATA #IMPLIED
                        file CDATA #IMPLIED
                        produced-by (applicant |
                                    RO |
                                    ISA |
                                    IPEA |
                                    IB |
                                    DO |
                                    EO |
                                    national-office |
                                    regional-office ) #REQUIRED
                        date-produced CDATA #IMPLIED
                        status CDATA #IMPLIED >

<!--
  Holds certification data of priority document
-->
<!ELEMENT pdoc-certificate-doc EMPTY>

<!ATTLIST pdoc-certificate-doc file CDATA #REQUIRED
                                lang CDATA #IMPLIED
                                carriers (internal-electronic |
                                          external-electronic |
                                          paper ) #IMPLIED
                                file-type (xml | pdf | txt | tif | zip |
                                           jpg ) #REQUIRED
                                status CDATA #IMPLIED >

<!--
  Body of the priority document
-->
<!ELEMENT pdoc-body-doc EMPTY>

<!ATTLIST pdoc-body-doc file CDATA #REQUIRED
                        lang CDATA #IMPLIED
                        carriers (internal-electronic |
                                  external-electronic |
                                  paper ) #IMPLIED
                        file-type (xml | pdf | txt | tif | zip | jpg )
#REQUIRED
                        status CDATA #IMPLIED >

<!--
  A signature represented by electronic means
-->
<!ELEMENT electronic-signature (basic-signature | enhanced-signature)>

<!ATTLIST electronic-signature date CDATA #REQUIRED
                                place-signed CDATA #IMPLIED >

<!--
  A TIFF image of a signature
-->
<!ELEMENT fax-image EMPTY>

<!ATTLIST fax-image file CDATA #REQUIRED >

<!--
  PCT Rule 17.1: Obligation to Submit Copy of Earlier
  National or International Application
-->
<!ELEMENT pct-rule17-1 EMPTY>
```

```
<!ATTLIST pct-rule17-1 compliance (yes | no ) #REQUIRED >

<!--
Application reference information: application number, country
(INID 21, ST.32:B210)

-->
<!ELEMENT application-reference (document-id)>

<!ATTLIST application-reference id ID #IMPLIED
                                appl-type CDATA #IMPLIED >

<!--
Document identification refers to patents (and patent applications) only.
See WIPO ST.14

-->
<!ELEMENT document-id (country , doc-number , kind? , name? , date?)>

<!ATTLIST document-id lang CDATA #IMPLIED >

<!--
Name:
If no distinction or detail can be given.
Also to be used for: personal (natural person) and corporate (legal entity) names

-->
<!ELEMENT name (#PCDATA)>

<!ATTLIST name name-type (legal | natural ) #IMPLIED >

<!--
Signatories

-->
<!ELEMENT signatories (signatory+)>

<!--
PCT/RO/101 Box No. X:
The signature must be that of the applicant (if there are several applicants, all
must sign); however, the signature may be that of the agent, or the common
representative, where a separate power of attorney appointing the agent or the
common representative, respectively, or a copy of a general power of attorney is
already in possession of the receiving Office, is furnished...
(PCT Rules 4.1(d), 4.15, and 90)

Indicate the capacity of the signer with 'signatory-capacity'

-->
<!ELEMENT signatory (%name_group; , address? , electronic-signature , signatory-
capacity?)>

<!ATTLIST signatory
                                id ID #IMPLIED>

<!--
The capacity in which the person signs

-->
<!ELEMENT signatory-capacity (#PCDATA)>

<!--
A PKI / PKCS #7 digital signature data type

-->
<!ELEMENT enhanced-signature (pkcs7)>
```

```
<!--  
    PKCS7 digital signature  
-->  
<!ELEMENT pkcs7 EMPTY>  
  
<!--  
    A non-PKI electronic signature  
-->  
<!ELEMENT basic-signature (fax-image | text-string | click-wrap)>  
  
<!--  
    A simple 'signature';  
    e.g., clicking a button labeled 'accept' or 'I agree'  
-->  
<!ELEMENT click-wrap EMPTY>  
  
<!--  
    A simple text string is to be used as the basic electronic signature;  
    e.g., John Doe <text-string>/jd/</text-string>  
-->  
<!ELEMENT text-string (#PCDATA)>  
  
<!--  
    Address components:  
    Address formats differ from country to country  
    If no structure possible use text  
-->  
<!ELEMENT address (%address_group;)>  
  
<!--  
    If no structure is possible, enter text (without markup)  
-->  
<!ELEMENT text (#PCDATA)>  
  
<!--  
    Postal code or zip code  
-->  
<!ELEMENT postcode (#PCDATA)>  
  
<!--  
    Region of country; e.g., state, province, etc.  
-->  
<!ELEMENT state (#PCDATA)>  
  
<!--  
    County, parish, department, etc (mainly UK, USA)  
-->  
<!ELEMENT county (#PCDATA)>  
  
<!--
```

```
City or town name

-->
<!ELEMENT city (#PCDATA)>

<!--
  Street may contain house number or name
-->
<!ELEMENT street (#PCDATA)>

<!--
  Building information in address; e.g., Hoffman building
-->
<!ELEMENT building (#PCDATA)>

<!--
  Address floor; e.g., 10th
-->
<!ELEMENT address-floor (#PCDATA)>

<!--
  Address room; e.g., Room 55B
-->
<!ELEMENT room (#PCDATA)>

<!--
  Post Office Box number
-->
<!ELEMENT pobox (#PCDATA)>

<!--
  Organizational mail code
-->
<!ELEMENT mailcode (#PCDATA)>

<!--
  Address, fifth line
-->
<!ELEMENT address-5 (#PCDATA)>

<!--
  Address, fourth line
-->
<!ELEMENT address-4 (#PCDATA)>

<!--
  Address, third line
-->
<!ELEMENT address-3 (#PCDATA)>

<!--
```

```
Address, second line

-->
<!ELEMENT address-2 (#PCDATA)>

<!--
Address, first line

-->
<!ELEMENT address-1 (#PCDATA)>

<!--
Registered number

-->
<!ELEMENT registered-number (#PCDATA)>

<!--
Synonym

-->
<!ELEMENT synonym (#PCDATA)>

<!--
Department, division, section, etc. name

-->
<!ELEMENT department (#PCDATA)>

<!--
Organisation name or company name

-->
<!ELEMENT orgname (#PCDATA)>

<!--
Role; e.g., President, Chairman, etc.

-->
<!ELEMENT role (#PCDATA)>

<!--
SDOBI : Individual id

-->
<!ELEMENT iid (#PCDATA)>

<!--
Name suffix (e.g., II, Jr., Dip., Ing., BA, etc.)

-->
<!ELEMENT suffix (#PCDATA)>

<!--
Middle name(s) or initial(s)

-->
<!ELEMENT middle-name (#PCDATA)>

<!--
```

```
First or given name(s), initial(s)

-->
<!ELEMENT first-name (#PCDATA)>

<!--
  Last, family, surname
-->
<!ELEMENT last-name (#PCDATA)>

<!--
  Title: e.g., Mr., Mrs., Dr. etc
-->
<!ELEMENT prefix (#PCDATA)>

<!--
  Priority document information
-->
<!ELEMENT pdoc-info (document-id , (received-at-ro | applicant-requested)? ,
received-at-ib? , pct-rule17-1?)>

<!--
  International Bureau receipt date
-->
<!ELEMENT received-at-ib (date)>

<!--
  Date on which applicant requested that RO create and transfer to IB a priority
  document
-->
<!ELEMENT applicant-requested (date)>

<!--
  Receiving Office date of receipt of priority document
-->
<!ELEMENT received-at-ro (date)>

<!--
  Date: components of a date.  Format: YYYYMMDD
-->
<!ELEMENT date (#PCDATA)>

<!--
  Document kind code; e.g., A1
  (INID 13, ST.32:B130)
-->
<!ELEMENT kind (#PCDATA)>

<!--
  The number of the referenced patent (or application) document
-->
<!ELEMENT doc-number (#PCDATA)>
```

```
<!--  
  Country: use ST.3 country code; e.g. DE, FR, GB, NL, etc.  
  Also includes EP, WO  
  
-->  
<!ELEMENT country (#PCDATA)>
```

5.5 Corps du document de priorité

```
<?xml version='1.0' encoding='UTF-8' ?>  
  
<!--  
*****  
*   pdoc-body v1.2      2012  JULY                                     *  
*****  
*   PUBLIC "-//WIPO//DTD PDOC BODY 1.2//EN" "pdoc-body-v1-2.dtd"   *  
*****  
*   https://www.wipo.int/pct-safe/en/resources/1.15/pdoc-body-v1-2.dtd *  
*****  
*   contacts:                                                     *  
*   WIPO: Yuya USHIDA; yuya.ushida@wipo.int                       *  
*****  
*   revision history                                             *  
*****  
HT: 14/12/04 incorporated changes from PFCs:  
..changed attribute he, wi of doc-page from 'NMTOKEN' to 'CDATA'  
..added attribute 'ocr' to doc-page  
HT: 20/07/04 incorporated changes from PFCs:  
..changed version number from v1.0 to v1.1  
..added value 'national-office', 'regional-office' to attribute produced-by of root  
element  
2003/06/01  
..released version number as v1.0  
*****  
  
Attributes:  
  lang           = language of application - use ISO 639 language code  
  dtd-version    = dtd version number  
  file           = filename of the whole application  
  status         = status of the application; values: new = new application  
  date-produced  = YYYYMMDD e.g, 20011230 if desired, 12 characters maximum  
  produced-by    = creator of this document  
  country        = st.3 code for application  
  
-->  
<!ELEMENT pdoc-body (document-id , (pdoc-doc | doc-page+))>  
  
<!ATTLIST pdoc-body  lang          CDATA  #REQUIRED  
                    dtd-version   CDATA  #IMPLIED  
                    file          CDATA  #IMPLIED  
                    country        CDATA  #REQUIRED  
                    produced-by    (applicant |  
                                   RO |  
                                   ISA |  
                                   IPEA |  
                                   IB |  
                                   DO |  
                                   EO |  
                                   national-office |  
                                   regional-office ) #REQUIRED  
                    date-produced  CDATA  #IMPLIED  
                    status         CDATA  #IMPLIED >  
  
<!--  
  doc-page - DOCUMENT or PAGE
```


This is primarily to be used when data for the whole or major sections of an application are in image format OR other formats such as pdf.

Page range attributes are given when required

pp - page range

ppf - first page

ppl - last page (for pdf).

The 'img' may also be used for complete pages, e.g. in drawings

Recommended id = docp0001, docp0002, etc.

Attributes "he" and "wi" mean height and width.

-->

<!ELEMENT doc-page EMPTY>

```
<!ATTLIST doc-page id ID #IMPLIED
                  he CDATA #REQUIRED
                  wi CDATA #REQUIRED
                  type (jpg | pdf | tif ) #REQUIRED
                  alt CDATA #IMPLIED
                  pp CDATA #IMPLIED
                  ppf CDATA #IMPLIED
                  ppl CDATA #IMPLIED
                  file CDATA #REQUIRED
                  ocr CDATA #IMPLIED
                  color (color | bw ) #IMPLIED
                  orientation (portrait | landscape ) 'portrait' >
```

<!--

Document identification refers to patents (and patent applications) only.
See WIPO ST.14

-->

<!ELEMENT document-id (country , doc-number , kind? , name? , date?)>

```
<!ATTLIST document-id lang CDATA #IMPLIED >
```

<!--

Name:

If no distinction or detail can be given.

Also to be used for: personal (natural person) and corporate (legal entity) names

-->

<!ELEMENT name (#PCDATA)>

```
<!ATTLIST name name-type (legal | natural ) #IMPLIED >
```

<!--

A proirity document 'document' (e.g., XML), as opposed to doc-page.

-->

<!ELEMENT pdoc-doc (#PCDATA)>

<!--

Date: components of a date. Format: YYYYMMDD

-->

<!ELEMENT date (#PCDATA)>

<!--

Document kind code; e.g., A1
(INID 13, ST.32:B130)

-->

<!ELEMENT kind (#PCDATA)>

```
<!--  
  The number of the referenced patent (or application) document  
-->  
<!ELEMENT doc-number (#PCDATA)>  
  
<!--  
  Country: use ST.3 country code; e.g. DE, FR, GB, NL, etc.  
  Also includes EP, WO  
-->  
<!ELEMENT country (#PCDATA)>
```

5.6 Données bibliographiques publiées par le Bureau international

```
<?xml version='1.0' encoding='UTF-8' ?>  
  
<!ENTITY % name_group "((name | (prefix? , (last-name | orgname) , first-name? ,  
middle-name? , suffix? , iid? , role? , orgname? , department? , synonym*)) ,  
registered-number?)">  
  
<!ENTITY % address_group "((address-1? , address-2? , address-3? , address-4? ,  
address-5? , mailcode? , pobox? , room? , address-floor? , building? , street? ,  
city? , county? , state? , postcode? , country) | text)">  
  
<!--  
*****  
*   WO-BIBLIOGRAPHIC-DATA v1.9      2017  JULY                               *  
*****  
*   PUBLIC "-//WIPO//DTD WO BIBLIOGRAPHIC DATA 1.9//EN"                   *  
*                                                                 "wo-bibliographic-data-v1-9.dtd"*  
*****  
*   https://www.wipo.int/pct-safe/en/resources/1.15/                        *  
*                                                                 wo-bibliographic-data-v1-9.dtd *  
*****  
* contacts:                                                                 *  
*   WIPO: Yuya USHIDA; yuya.ushida@wipo.int                               *  
*****  
* revision history                                                         *  
*****  
Asahi HASEBE : 01/07/17 incorporated changes from PFC  
..changed version number from v1.8 to v1.9  
..added an attribute "id" to signatory and us-rights  
..added an element " earlier-search-authorization" to search-authority  
SY: 01/07/12 incorporated changes from PFC:  
..changed version number from v1.7 to v1.8  
..added attribute 'priority-doc-access-code' to priority-doc-from-library  
(PFC12/001)  
SY: 01/04/10 incorporated changes from PFC  
..changed version number from v1.6 to v1.7  
..added element 'priority-doc-from-library' to priority-claim (PFC09/005)  
MO: 01/07/08 incorporated changes from PFCs:  
..changed version number from v1.5 to v1.6  
..added element 'substantially-equivalent' to earlier-search-request (PFC08/003)  
..added element 'earlier-search-document' to earlier-search-request (PFC08/003)  
..added attribute 'email-purpose' to email (PFC08/006)  
MO: 01/01/07 incorporated changes from PFCs:  
..changed version number from v1.4 to v1.5  
..implementation of PFC06/001  
..added element 'sup' to u (PFC06/003)  
..added element 'sup' to i (PFC06/003)  
..added element 'sup' to b (PFC06/003)  
..added element 'sub' to u (PFC06/003)  
..added element 'sub' to i (PFC06/003)  
..added element 'sub' to b (PFC06/003)
```

```

..added element 'o' to invention-title, b, i, sup, sup2, sub, sub2, heading, claim-
text,
  p, small-caps, dt, dd, li, crossref, figref, othercit, statement (PFC06/003)
..added element 'incorporation-by-reference' to wo-priority-info (PFC06/004)
..added element 'restore-rights' to priority-claim (PFC06/004)
..added element 'address-4' to address (PFC06/005)
..added element 'address-5' to address (PFC06/005)
..added attribute 'subset' to protection-request (PFC06/005)
MO: 29/09/05 incorporated changes from PFCs:
..changed version number from v1.3 to v1.4
..changed element wo-correction
  FROM (document-id? , type-of-correction? , wo-repub-code , dttext?)
  TO (document-id? , type-of-correction? , wo-repub-code , wo-pubnum? , wo-dtext*)
HT: 14/12/04 incorporated changes from PFCs:
..changed element correction from (document-id? , type-of-corection? , wo-repub-
code , dttext? to (document-corrected , type-of-correction? , gazette-reference? ,
text?)
..changed element wo-publication-info from (correction* , wo-bio-material-after-
pub? , isr-status* , pct-pub-info*) to (wo-correction* , wo-bio-material-after-pub?
, isr-status* , pct-pub-info*)
..changed attribute of correction from '#REQUIRED' to '#IMPLIED'
..added element 'classifications-ipcr' to wo-bibliographic-data
..added element 'wo-correction' to wo-publication-info
..added attribute 'id' to addressbook, application-reference, classification-ipc,
priority-claim, publication-reference
..added attribute 'sequence', 'id' to further-classfication
..removed attribute 'correction'
HT: 20/07/04 incorporated changes from PFCs:
..changed version number from v1.2 to v1.3
..added value 'national-office', 'regional-office' to attribute produced-by of root
element
HT: 16/12/03 incorporated changes from PFCs:
..changed version number from v1.0 to v1.2
..changed designation-of-states
  from '(precautionary-designation-statement, exclusion-from-designation?)?)'
  to '(precautionary-designation-statement?, exclusion-from-designation?)?)'
..added element 'sup2' and 'sub2' to sup and sub
June 2003
..released version number as v1.0
*****
* SECTION I - DECLARATION, ENT. REFS, ISO sets, etc *
*****
-->
<!--
import character entity set. Download from:
http://pcteasy.wipo.int/efiling_standards/schemaDocs/wipo.ent

Note that nsgmls-based parsers (SP, Near and Far Designer, etc.)
may not be able to process this file for reasons described below
in MathML comments.
-->
<!--ENTITY % wipo PUBLIC "-//WIPO//ENTITIES WIPO 1.0//EN" "wipo.ent">
%wipo;-->

<!--
*****
* INCLUDE COMPONENT DTDS (MATHML, OASIS EXCHANGE TABLE MODEL *
*****
-->
<!-- DTD MathML2: maintained by W3C. Download from:
http://www.w3.org/TR/MathML2/DTD-MathML-20010221.zip

If using nsgmls-based parser (SP, Near and Far Designer, etc.)
uncomment 'mathml-charent-module' switch below or replace the
referenced MathML2 DTD with the version downloadable from:
http://www.w3.org/Math/DTD/dtd-sp.zip

This notice copied from: http://www.w3.org/Math/DTD/

```

```

"DTD for nsgmls
  Some systems (including the popular nsgmls parser) may not be able
  to process files using 'plane 1' characters which have Unicode
  numbers higher than #xFFFF. The versions of the DTD provided here
  incorporate the modifications mentioned above, but the high
  characters are replaced by the equivalent mchar construct
  <mchar name="..." /> this allows the DTD to be read and for MathML
  files to be validated using such systems."
-->

<!--ENTITY % mathml-charent.module "IGNORE" -->
<!ENTITY % MATHML.prefixed "IGNORE">
<!ENTITY % MATHML.xmlns "">

<!-- import MathML2 dtd -->
<!ENTITY % mathml2 PUBLIC "-//W3C//DTD MathML 2.0//EN" "mathml2.dtd">
%mathml2;

<!-- DTD OASIS Open XML Exchange Table Model.
  Maintained by OASIS; download from:
  http://www.oasis-open.org/specs/soextblx.dtd
  Note that the FPI in soextblx.dtd refers to itself as 'calstblx'.
  That convention has been followed here.
-->
<!-- create content for title element in table -->
<!ENTITY % title "<!ELEMENT title (#PCDATA | b | i | u | sup | sub | smallcaps)* >
">
%title;

<!-- override OASIS Exchange <entry> model -->
<!ENTITY % tbl.entry.mdl "(#PCDATA | b | i | u | sup | sub | smallcaps | br
| patcit | nplcit | bio-deposit | crossref | img
| dl | ul | ol | chemistry | maths)* ">

<!-- import OASIS Exchange model -->
<!ENTITY % calstblx PUBLIC "-//OASIS//DTD XML Exchange Table Model 19990315//EN"
"soextblx.dtd">
%calstblx;

<!--
*****
* SECTION II - DTD
*****
-->

<!ELEMENT wo-bibliographic-data (publication-reference? , wo-publication-info? ,
application-reference? , wo-application-info? , wo-amendment-info? , wo-bib-change-
info? , wo-demand-info? , file-reference-id? , invention-title* , parties? ,
designation-of-states? , wo-priority-info? , search-authority? , declaration-info?
, classification-ipc? , classifications-ipcr? , figure-to-publish? , signatories? ,
correspondence-address? , dtext?)>

<!ATTLIST wo-bibliographic-data  date-produced CDATA #IMPLIED
                                lang           CDATA #IMPLIED
                                dtd-version   CDATA #IMPLIED
                                file          CDATA #IMPLIED
                                status        CDATA #IMPLIED
                                office-name   CDATA #IMPLIED
                                produced-by   (applicant |
                                                RO |
                                                ISA |
                                                IPEA |
                                                IB |
                                                DO |
                                                EO |
                                                national-office |
                                                regional-office ) #REQUIRED >

<!--

```

```
Later election information

-->
<!ELEMENT later-election (received-at-ib)>

<!ATTLIST later-election  expiration-19months  (before | after ) #REQUIRED >

<!--
PCT/IPEA/401
The date of receipt of the demand is AFTER the expiration of 19 months from the
priority date
-->
<!ELEMENT receipt-after-19month EMPTY>

<!ATTLIST receipt-after-19month  informed  (yes | no ) #IMPLIED >

<!--
IPER status information, date of receipt at IB,
information of new IPER or corrected IPER.
-->
<!ELEMENT iper-status (received-at-ib?)>

<!ATTLIST iper-status  iper-status  (new | corrected ) #REQUIRED >

<!--
A signature represented by electronic means
-->
<!ELEMENT electronic-signature (basic-signature | enhanced-signature)>

<!ATTLIST electronic-signature  date          CDATA #REQUIRED
                                place-signed CDATA #IMPLIED >

<!--
A TIFF image of a signature
-->
<!ELEMENT fax-image EMPTY>

<!ATTLIST fax-image  file CDATA #REQUIRED >

<!ELEMENT classifications-ipcr (classification-ipcr+)>

<!ATTLIST classifications-ipcr  id ID #IMPLIED >

<!--
International Patent Classification (IPC) data;
-->
<!ELEMENT classification-ipcr ((ipc-version-indicator , classification-level? ,
section , class , subclass , main-group? , subgroup? , symbol-position? ,
classification-value? , action-date? , generating-office? , classification-status?
, classification-data-source?) | text)>

<!ATTLIST classification-ipcr  id          ID          #IMPLIED
                                sequence CDATA #IMPLIED >

<!--
International Patent Classification (IPC) data;
(INID 51, ST.32:B510)
-->
<!ELEMENT classification-ipc (edition , main-classification , further-
classification* , (additional-info | linked-indexing-code-group | unlinked-
indexing-code)* , text?)>

<!ATTLIST classification-ipc  id ID #IMPLIED >
```

```

<!--
  Further/secondary classification
  (ST.32:B512/B522)

-->
<!ELEMENT further-classification (#PCDATA)>

<!ATTLIST further-classification  id          ID          #IMPLIED
                                   sequence CDATA   #IMPLIED >

<!--
  Paragraph

  Recommended id = p0001, p0002, etc.  num = 0001, 0002, etc.

  Note: paragraphs may occur in sections other than the description and at
  different times eg. for the abstract, in this case use for example "p0001a";
  amended claims: "p0001ac", etc.

-->
<!ELEMENT p (#PCDATA | b | i | u | o | sup | sub | smallcaps | br | pre | dl | ul |
ol | crossref | figref | patcit | nplcit | bio-deposit | img | chemistry | maths |
tables | table-external-doc)*>

<!ATTLIST p  id  ID      #IMPLIED
             num CDATA  #REQUIRED >

<!--
  References a stand-alone table authored with the table-external DTD.

-->
<!ELEMENT table-external-doc (#PCDATA)>

<!ATTLIST table-external-doc  id          ID          #IMPLIED
                               file        CDATA   #REQUIRED
                               lang        CDATA   #IMPLIED
                               carriers    (internal-electronic |
                                           external-electronic |
                                           paper ) #IMPLIED
                               external-type (math |
                                              chemistry |
                                              program-listing |
                                              other ) #IMPLIED
                               status      CDATA   #IMPLIED >

<!--
  TABLES
  This is image data or coded according to OASIS Exchange model with modified cell
  'entry' content.

  Recommended id = tabl0001, tabl0002, etc.

-->
<!ELEMENT tables (img | table)>

<!ATTLIST tables  id  ID      #IMPLIED
                 num CDATA  #REQUIRED >

<!--
  Definition list

  Recommended id = dlis0001, dlis0002, etc.

-->
<!ELEMENT dl (dt , dd)+>

<!ATTLIST dl  tsize  CDATA  #IMPLIED
             compact (compact ) #IMPLIED
             id      ID      #IMPLIED >

```

```
<!--
  Term to be defined

  Recommended id = dtrm0001, dtrm0002, etc.
-->
<!ELEMENT dt (#PCDATA | b | i | u | o | sup | sub | smallcaps)*>
<!ATTLIST dt  id ID #IMPLIED >

<!--
  Unordered Lists
  list-style may be empty for lists with no bullet or other symbol default
  list-style is 'bullets'

  Recommended id = ulis0001, ulis0002, etc.
-->
<!ELEMENT ul (li+)>
<!ATTLIST ul  id ID #IMPLIED
             list-style (bullet | dash | none ) 'bullet'
             compact (compact ) #IMPLIED >

<!--
  List item

  Recommended id = list0001, list0002, etc.
-->
<!ELEMENT li (#PCDATA | b | i | u | o | sup | sub | smallcaps | br | pre | patcit |
nplcit | bio-deposit | crossref | figref | img | dl | ul | ol | chemistry |
maths)*>
<!ATTLIST li  id ID #IMPLIED
             num CDATA #IMPLIED >

<!--
  MATHEMATICS
  This is image data or coded according to mathml, version 2

  Recommended id = math0001, math0002, etc.
-->
<!ELEMENT maths (img | (math , img?))>
<!ATTLIST maths  id ID #IMPLIED
                 num CDATA #REQUIRED >

<!--
  Chemistry
  Chemical formulae, ring structures, Markush structures, etc.

  For now treat as image data.
  Depending on industry support we may use, e.g., chemML, CML later

  Recommended id = chem0001, chem0002, etc
-->
<!ELEMENT chemistry (img | (chem , img?))>
<!ATTLIST chemistry  id ID #IMPLIED
                     num CDATA #REQUIRED >

<!--
  This is a pointer to an external DTD for chemical markup - to be determined.
  For EPO probably CML; http://www.xml-cml.org/
-->
<!ELEMENT chem EMPTY>
```

```

<!ATTLIST chem id ID #IMPLIED
               file CDATA #REQUIRED
               chem-type CDATA #IMPLIED >

<!--
  Ordered Lists:
  attribute 'ol-style'

  Recommended use:
    1 arabic numbers      1, 2, 3, ...
    a lower alpha        a, b, c, ...
    A upper alpha        A, B, C, ...
    i lower roman        i, ii, iii, ...
    I upper roman        I, II, III, ...

-->
<!ELEMENT ol (li+)>

<!ATTLIST ol id ID #IMPLIED
             compact (compact ) #IMPLIED
             ol-style CDATA #IMPLIED >

<!--
  Image data
  Image is used for any kind of image: art work, figures, complex work units
  (math, tables, chemistry), etc.

  Recommended:
    id = i0001, i0002, etc.
    he, wi = "11" - milimeters - height, width;
    file = file name, location; label - not used;
    alt = alternate text if image not shown;
    img-content = drawing is the default;
    img-format = common will be tiff, st33 and st35 in for backward compatilby
                and, later, publication.
    orientation = orientation of the image (portrait | landscape).
                Default is portrait
    inline = (yes | no).
            Whether the image is to be presented inline or separated by line
            breaks. Default is no.

-->
<!ELEMENT img EMPTY>

<!ATTLIST img id ID #IMPLIED
              he CDATA #REQUIRED
              wi CDATA #REQUIRED
              file CDATA #REQUIRED
              alt CDATA #IMPLIED
              img-content (drawing |
                          photograph |
                          character |
                          dna |
                          undefined |
                          chem |
                          table |
                          math |
                          program-listing |
                          flowchart |
                          graph ) 'drawing'
              img-format (jpg | tif | st33 | st35 ) #REQUIRED
              orientation (portrait | landscape ) 'portrait'
              inline (yes | no ) 'no' >

<!--
  A reference to a figure;
  e.g., "...as shown in <figref idref='f0001'>figure<b>1</b></figref>..."

-->

```



```
<!ELEMENT figref (#PCDATA | b | i | u | o | sup | sub | smallcaps)*>

<!ATTLIST figref  idref IDREFS  #IMPLIED
                 num   CDATA    #IMPLIED >

<!--
  Cross reference to any other element with an identifier (id)
-->
<!ELEMENT crossref (#PCDATA | b | i | u | o | sup | sub | smallcaps)*>

<!ATTLIST crossref  idref IDREF  #REQUIRED >

<!--
  Biological deposit citation (US EFS: biological-deposit)
  (INID 83, ST.32:B830)
  According to PCT Rule 13bis, EPC Rule 28
  This covers all bio data references long and short within the description and/or
  claims

  Recommended id = biod0001, biod0002, etc.
-->
<!ELEMENT bio-deposit (depository , bio-accno , date? , term? , dtext?)>

<!ATTLIST bio-deposit  id   ID      #IMPLIED
                      num  CDATA   #REQUIRED
                      url  CDATA   #IMPLIED
                      dnum CDATA   #IMPLIED >

<!--
  Non-Patent Literature (NPL) CITation;

  Notes:
  This can be free text data without any structure (#PCDATA) which is NOT
  recommended
  or it can be highly structured data which is marked up according to ST.14 and
  ISO 690 layout;

  This part of the DTD has used many different sources for element names and DTD
  structure and reference:
  AACR2 / MARC
  ISO 12083 - Electronic manuscript prep. and markup. DTD
  Association of American Publishers (AAP) Z39.59 DTD
  European Working Group for SGML (EWS) MAJOUR DTD
  SuperJournal Full Article DTD
  www.superjournal.ac.uk/sj
  Elsevier DTD
  Medline DTD (NLM)

  Attributes (recommended):
  id - ncit0001, ncit0002, etc
  num - 0001, 0002
  npltype - The TYPE of citation is office specific (recommended):;
    A - Abstract citation of no specific kind
    B - Book citation
    I - Biological abstract citation
    C - Chemical abstracts citation
    E - Database citation
    D - Derwent citation
    P - Patent cited within NPL group
    J - Patent Abstracts of Japan citation (REC 067)
    S - Serial / Journal / Periodical citation
    W - World Wide Web / Internet search citation
  medium - the type of medium
    e.g., CD (CD-ROM), MT (Magnetic Tape), DISK, ONLINE
  file - file name on local systems eg. XP number in EPO
  url - where possible give full web link to document
-->
```

```

<!ELEMENT nplcit ((text | article | book | online | othercit) , rel-passage*)>

<!ATTLIST nplcit id ID #IMPLIED
                num CDATA #IMPLIED
                lang CDATA #IMPLIED
                file CDATA #IMPLIED
                npl-type CDATA #IMPLIED
                medium CDATA #IMPLIED
                url CDATA #IMPLIED >

<!--
  Reference number (general); for the EPO this is the XP number
-->
<!ELEMENT refno (#PCDATA)>

<!ATTLIST refno id ID #IMPLIED >

<!--
  Classification code; e.g., ipc, dewey etc.
-->
<!ELEMENT class (#PCDATA)>

<!ATTLIST class class-type CDATA #IMPLIED >

<!--
  Subordinate responsibility; e.g., editor, translator, etc.
-->
<!ELEMENT subname (%name_group; | addressbook)>

<!ATTLIST subname subname-type (editor | translator | other-subname-type )
'editor' >

<!--
  Author

  Prime responsibility for the work
  there is no distinguishing between personal and corporate authors
  <author> followed by name or addressbook information
  use the ID attribute if, for example, there is a need to distinguish between
  multiple authors.
  Can also include affiliation details

  Recommended id = auth0001, auth0002, etc.
-->
<!ELEMENT author (%name_group; | addressbook)>

<!ATTLIST author id ID #IMPLIED >

<!--
  PATENT CITATIONS:
  (ST.32:B561)
  Patent Citation within abstract, description or claims.
  For patent citations within Search Report see Search Report DTD

  Notes:
  Tags arranged according to WIPO ST.14 order.
  This can be free text data without any structure (text).

  Example:
  <patcit id='pcit0001' dnum='US4793675A' dnum-type='publication number'>
    <document-id>
      <country>US</country>
      <doc-number>4793675</doc-number>
      <kind>A</kind>
      <name>Handa</name>
      <date>19881227</date>

```

```
</document-id>
</patcit>

Note:
  It is NOT expected that the applicant will create the tagged data
  - it could be generated from a 'pull down' data entry form
  or generated from internal SR databases

Attributes (recommended):
  id - pcit0001, pcit0002, etc.
  num - 0001, 0002, etc.
  dnum - use full number as one string, eg, "US5401234A";
  url - where possible give full web link to patent
  file - file name eg. if stored on local systems
  dnum-type - type of document number
            (e.g., application number, publication number)

-->
<!ELEMENT patcit (text | (document-id , rel-passage*))>

<!ATTLIST patcit id ID #IMPLIED
                num CDATA #IMPLIED
                dnum CDATA #IMPLIED
                dnum-type CDATA #IMPLIED
                file CDATA #IMPLIED
                url CDATA #IMPLIED >

<!--
  This element is one method to identify content consisting of text objects that
  require preservation (pre) of their whitespace in order to preserve internal
  logical relationships.
  (e.g., sequence listing fragments, computer program listings)

-->
<!ELEMENT pre (#PCDATA)>

<!ATTLIST pre id ID #IMPLIED
              xml:space (preserve | default ) #IMPLIED
              listing-type (sequence | program-listing | other ) #REQUIRED
>

<!--
  Designated states for declarations

-->
<!ELEMENT designated-states-as-dec (all-designations | all-designations-except-us |
regional* , national?)>

<!ATTLIST designated-states-as-dec dec-type (1 | 2 | 3 | 4 | 5 | combined )
#REQUIRED >

<!--
  Information of combined declaration(declaration 1 and 2)

-->
<!ELEMENT combined-declaration EMPTY>

<!ATTLIST combined-declaration quantity CDATA #REQUIRED >

<!--
  Declaration as to non-prejudicial disclosures or exceptions to lack of novelty
  (Rules 4.17(v) and 51bis.1(a)(v))

-->
<!ELEMENT declaration5 EMPTY>

<!ATTLIST declaration5 quantity CDATA #REQUIRED >

<!--
  Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes
```

```
of the designation of the United States of America

-->
<!ELEMENT declaration4 EMPTY>

<!ATTLIST declaration4  quantity CDATA  #REQUIRED >

<!--
Declaration as applicant's entitlement, as at the international filing date, to
claim the priority of the earlier application, where the applicant is not the
applicant who filed the earlier application or where the applicant's name has
changed since the filing of the earlier application
(Rules 4.17(iii) and 51bis.1(a)(iii))
-->
<!ELEMENT declaration3 EMPTY>

<!ATTLIST declaration3  quantity CDATA  #REQUIRED >

<!--
Declaration as applicant's entitlement, as at the international filing date, to
apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case
where the declaration under Rule 4.17(iv) is not appropriate
-->
<!ELEMENT declaration2 EMPTY>

<!ATTLIST declaration2  quantity CDATA  #REQUIRED >

<!--
Declaration as to the identity of the inventor
(Rules 4.17(i) and 51bis.1(a)(i))
-->
<!ELEMENT declaration1 EMPTY>

<!ATTLIST declaration1  quantity CDATA  #REQUIRED >
<!--
-->
<!ELEMENT earlier-search-documents EMPTY>

<!ATTLIST earlier-search-documents  results-of-earlier-search
(yes |
no ) #IMPLIED
                                earlier-application
(yes |
no ) #IMPLIED
                                translation-of-earlier-application
(yes |
no ) #IMPLIED
                                translation-of-results-of-earlier-search
(yes |
no ) #IMPLIED
                                documents-cited-in-earlier-search-results
(yes |
no ) #IMPLIED
                                available-at-isa
(yes |
no ) #IMPLIED
                                request-ro-to-transmit-to-isa
no ) #IMPLIED >
```

```

<!--
  Priority claim (PCT Rule 4.10)
    (INID 32/33/34, ST.32:B320/B330/B340)
-->
<!ELEMENT priority-claim (country , doc-number? , date , office-of-filing? ,
(priority-doc-requested | priority-doc-attached | priority-doc-from-library)? ,
restore-rights?)>

<!ATTLIST priority-claim id ID #IMPLIED
                        sequence CDATA #REQUIRED
                        kind (national | regional | international )
#REQUIRED >

<!--
  library-identifier attribute intended as an identifying code for the library
  containing the document ? to be used where offices support the access of documents
  from many such libraries

  action-by attribute would indicate the office requested to retrieve the document
  (for PCT this can be the RO or IB, default IB)

  priority-doc-access-code indicates, when present, the access code that the Office
  (or applicable Offices) should use to obtain the priority document from the
  specified digital library
-->
<!ELEMENT priority-doc-from-library EMPTY>

<!ATTLIST priority-doc-from-library library-identifier CDATA #IMPLIED
                                   action-by CDATA #IMPLIED
                                   priority-doc-access-code CDATA #IMPLIED >

<!--
  PCT Rule 17.1: Obligation to Submit Copy of Earlier
  National or International Application
-->
<!ELEMENT pct-rule17-1 EMPTY>

<!ATTLIST pct-rule17-1 compliance (yes | no ) #REQUIRED >

<!--
  Protection request for the designated office.
-->
<!ELEMENT protection-request (kind-of-protection , document-id?)>

<!ATTLIST protection-request subset (yes | no ) #IMPLIED >

<!--
  Title of the Invention:
    (INID 54, ST.32:B540/B542)

  Preferably two to seven words when in English or translated into English and
  precise. (Rule 4.3)

  Recommended id = 'invt'
-->
<!ELEMENT invention-title (#PCDATA | b | i | u | o | sup | sub)*>

<!ATTLIST invention-title id ID #IMPLIED
                          lang CDATA #IMPLIED >

<!--
  Underscore: style - single is default
-->
<!ELEMENT u (#PCDATA | b | i | smallcaps | sup | sub)*>

```

```
<!ATTLIST u style (single | double | dash | dots ) 'single' >
<!--
  Overscore: style - single is default
-->
<!ELEMENT o (#PCDATA | b | i | smallcaps | sup | sub)*>
<!ATTLIST o style (single |
                  double |
                  dash |
                  dots |
                  leftarrow |
                  rightarrow |
                  leftrightarrow ) 'single' >
<!--
  Agent or common representative (Rules 90.1, 90.2)
-->
<!ELEMENT agent (addressbook+)>
<!ATTLIST agent sequence CDATA #REQUIRED
               rep-type (agent | attorney | common-representative )
#REQUIRED >
<!--
  Deceased inventor name
-->
<!ELEMENT deceased-inventor (%name_group;)>
<!ATTLIST deceased-inventor sequence CDATA #IMPLIED
                             lang CDATA #IMPLIED >
<!--
  The individual or entity responsible for creating the matter that protection is
  sought for.
  (ST.32:B721)
-->
<!ELEMENT inventor (addressbook+ , designated-states?)>
<!ATTLIST inventor sequence CDATA #REQUIRED
                   designation (all | all-except-us | us-only | as-
indicated ) #IMPLIED >
<!--
  Applicant information:
  (INID 71, ST.32:B710)

  attributes for applicant
  sequence : sequence number of each applicant
            e.g, sequence="1"
  app-type : applicant type
            app-type="applicant" : the applicant is only applicant
            app-type="applicant-inventor" : the applicant is also inventor
  designation: This person is applicant for the purpose of:
            designation="all" : all designated states
            designation="all-except-us": all designated states except US
            designation="us-only" : US only
            designation="as-indicated" : the states indicated in
            designated-states element
            under applicant element
-->
<!ELEMENT applicant (addressbook+ , nationality , residence , us-rights* ,
designated-states? , designated-states-as-inventor?)>
```

```
<!ATTLIST applicant sequence CDATA #REQUIRED
                        app-type      (applicant | applicant-inventor )
#REQUIRED
                        designation   (all | all-except-us | us-only | as-
indicated ) #REQUIRED >

<!--
  This person is successor to the rights of an inventor who is deceased, insane, or
  legally incapacitated, for the purposes of the designation of the United States
  of America
-->
<!ELEMENT us-rights (#PCDATA)>

<!ATTLIST us-rights to-dead-inventor CDATA #REQUIRED
                    kind              (heir |
                                       heiress |
                                       executor |
                                       executrix |
                                       estate |
                                       legal-representative |
                                       administrator |
                                       administratrix |
                                       legal-representatives |
                                       heirs |
                                       executors |
                                       legal-heirs ) #REQUIRED
                    id ID #IMPLIED >

<!--
  ADDRESSBOOK GROUP:
  Holds name and contact information for individuals/organizations

  The LANG attribute is REQUIRED for certain document types,
  e.g., the JPO PCT Request where names and addresses may be repeated in two
  different languages. If no structure possible use text.
-->
<!ELEMENT addressbook ((%name_group; , address , phone* , fax* , email* , url* ,
ead* , dtext?) | text)>

<!ATTLIST addressbook id ID #IMPLIED
                      lang CDATA #IMPLIED >

<!--
  Email address

  Attribute:
    email-purpose  reason for which email address is included:
informal          for informal contact only
general           for any type of communication
confirmation     any type of communication, but formal messages followed up
                  by conventional mailing (to the extent offered)
main             where applicant desires this address to be used as primary
                  means of contact as a replacement of the use of conventional
                  post (to the extent that an Office offers this)
                  the default value depends on e-mail policies of the relevant Office.
                  For PCT purposes as at 1 July 2008, no attribute being included is
                  equivalent to 'informal'
-->
<!ELEMENT email (#PCDATA)>

<!ATTLIST email email-purpose (informal | general | advance | main ) #IMPLIED >

<!--
  Application reference information: application number, country
  (INID 21, ST.32:B210)
-->
```

```
<!ELEMENT application-reference (document-id)>

<!ATTLIST application-reference id ID #IMPLIED
                                appl-type CDATA #IMPLIED >

<!--
  ISR status information, date of receipt at IB,
  information of new ISR or corrected ISR.
-->

<!ELEMENT isr-status (received-at-ib?)>

<!ATTLIST isr-status isr-status (new | corrected ) #REQUIRED >

<!--
  IB original dtext, br tag is available.
-->

<!ELEMENT wo-dtext (#PCDATA | br)*>

<!ATTLIST wo-dtext lang CDATA #IMPLIED >

<!--
  Publication reference information: publication number, date, etc
  (INID 11, ST.32:B110)
-->

<!ELEMENT publication-reference (document-id)>

<!ATTLIST publication-reference id ID #IMPLIED >

<!--
  Document identification refers to patents (and patent applications) only.
  See WIPO ST.14
-->

<!ELEMENT document-id (country , doc-number , kind? , name? , date?)>

<!ATTLIST document-id lang CDATA #IMPLIED >

<!--
  Name:
  If no distinction or detail can be given.
  Also to be used for: personal (natural person) and corporate (legal entity) names
-->

<!ELEMENT name (#PCDATA)>

<!ATTLIST name name-type (legal | natural ) #IMPLIED >

<!--
  information for chapter II demand at IB
-->

<!ELEMENT wo-demand-info (ipea? , received-at-ipea? , elected-office? , later-
election? , receipt-after-19month? , considered-not-made? , withdrawn? , iper-
status* , completion-date?)>

<!--
  International Preliminary Examination Authority
-->

<!ELEMENT ipea (country)>

<!--
  Date of receipt by International Preliminary Examination Authority
-->

<!ELEMENT received-at-ipea (date)>
```



```
<!ELEMENT elected-office (country* , (region , country+)*)>

<!ELEMENT completion-date (date)>

<!--
  Signatories
-->
<!ELEMENT signatories (signatory+)>

<!--
  PCT/RO/101 Box No. X:
  The signature must be that of the applicant (if there are several applicants, all
  must sign); however, the signature may be that of the agent, or the common
  representative, where a separate power of attorney appointing the agent or the
  common representative, respectively, or a copy of a general power of attorney is
  already in possession of the receiving Office, is furnished...
  (PCT Rules 4.1(d), 4.15, and 90)

  Indicate the capacity of the signer with 'signatory-capacity'
-->
<!ELEMENT signatory (%name_group; , address? , electronic-signature , signatory-
capacity?)>
<!ATTLIST signatory
          id ID #IMPLIED>

<!--
  The capacity in which the person signs
-->
<!ELEMENT signatory-capacity (#PCDATA)>

<!--
  A PKI / PKCS #7 digital signature data type
-->
<!ELEMENT enhanced-signature (pkcs7)>

<!--
  PKCS7 digital signature
-->
<!ELEMENT pkcs7 EMPTY>

<!--
  A non-PKI electronic signature
-->
<!ELEMENT basic-signature (fax-image | text-string | click-wrap)>

<!--
  A simple 'signature';
  e.g., clicking a button labeled 'accept' or 'I agree'
-->
<!ELEMENT click-wrap EMPTY>
```

```
<!--  
  A simple text string is to be used as the basic electronic signature;  
  e.g., John Doe <text-string>/jd/</text-string>  
-->  
<!ELEMENT text-string (#PCDATA)>  
  
<!--  
  Figure of the drawings which should accompany the abstract  
-->  
<!ELEMENT figure-to-publish (fig-number+)>  
  
<!--  
  PCT/RO/101 Box IX: the number of the figure which should accompany the abstract.  
  (ST.32:B598)  
-->  
<!ELEMENT fig-number (#PCDATA)>  
  
<!--  
  Possible sources: human-generated-classification,  
  machine-propagated-classification, software-analysis-generated-classification  
-->  
<!ELEMENT classification-data-source (#PCDATA)>  
  
<!--  
  Possible status: original-classification, reclassified, various-classification,  
  deleted-classification  
-->  
<!ELEMENT classification-status (#PCDATA)>  
  
<!--  
-->  
<!ELEMENT generating-office (country)>  
  
<!--  
-->  
<!ELEMENT action-date (date)>  
  
<!--  
  Possible values: invention, non-invention  
-->  
<!ELEMENT classification-value (#PCDATA)>  
  
<!--  
  Possible positions: first-symbol-position, later-symbol-position.  
-->  
<!ELEMENT symbol-position (#PCDATA)>  
  
<!--
```

```
-->
<!ELEMENT subgroup (#PCDATA)>

<!--

-->
<!ELEMENT main-group (#PCDATA)>

<!--

-->
<!ELEMENT subclass (#PCDATA)>

<!--

-->
<!ELEMENT section (#PCDATA)>

<!--
  Levels: ipcr-advanced, ipcr-core
-->
<!ELEMENT classification-level (#PCDATA)>

<!--

-->
<!ELEMENT ipc-version-indicator (date)>

<!--
  Unlinked indexing code.
  (ST.32:B515/B525)
-->
<!ELEMENT unlinked-indexing-code (#PCDATA)>

<!--
  Linked indexing code.
  (ST.32:B514/B524)
-->
<!ELEMENT linked-indexing-code-group (main-linked-indexing-code , sub-linked-
indexing-code+)>

<!--
  Sub/further Linked Indexing Code.
-->
<!ELEMENT sub-linked-indexing-code (#PCDATA)>

<!--
  Main Linked Indexing Code.
-->
<!ELEMENT main-linked-indexing-code (#PCDATA)>
```

```
<!--
  Main classification.
  (ST.32:B511/B521)
-->
<!ELEMENT main-classification (#PCDATA)>

<!--
  Additional information.
  (ST.32:B513)
-->
<!ELEMENT additional-info (p+)>

<!--
  Definition description
-->
<!ELEMENT dd (#PCDATA | b | i | u | o | sup | sub | smallcaps | br | pre | patcit |
nplcit | bio-deposit | crossref | figref | img | ul | ol | chemistry | maths)*>

<!--
  Identifies the period of time during which the depository must be able to furnish
  samples of the biological material.
-->
<!ELEMENT term (#PCDATA)>

<!--
  Biological accession number:
  (ST.32:B831)
  The identification assigned to the biological material by the depository
-->
<!ELEMENT bio-accno (#PCDATA)>

<!--
  Information regarding the facility storing the biological deposit.
  (ST.32:B832)
-->
<!ELEMENT depository (#PCDATA | address)*>

<!--
  Other citations - free form
-->
<!ELEMENT othercit (#PCDATA | b | i | u | o | sup | sub)*>

<!--
  Online citation
  Revised according to ISO-690-2 - Electronic documents and parts thereof.
  Please refer to this standard for definitions and examples.
  See: http://www.nlc-bnc.ca/iso/tc46sc9/standard/690-2e.htm#Contents
  The tagging in fact is a mixture of article and book tags together with
  specific electronic source tags.
  'Online' is taken to mean any kind of electronic documentation:
  databases, internet, CD-Roms, DVD, email, etc
  EXAMPLES:;

  Kirk-Othmer Encyclopedia of Chemical Technology [online].
  3rd ed. New York : John Wiley, 1984 [cited 3 January 1990].
```

Available from: DIALOG Information Services, Palo Alto (Calif.).

```
<nplcit id='ncit1' num='0001' type='E' medium='online'>
  <online>
    <online-title>Kirk-Othmer Encyclopedia of Chemical Technology
    </online-title>
    <edition>3rd ed.</edition>
    <imprint>
      <address>
        <text>New York</text>
      </address>
      <name>John Wiley</name>
      <pubdate>19840000</pubdate>
    </imprint>
    <avail>dialog information services, palo alto (calif.).</avail>
    <datecit>
      <date>19900103</date>
    </datecit>
  </online>
</nplcit>
```

* Article on Internet:

Clark, Carol. On the Threshold of a Brave New World.
In Blueprint of the Body [online].
CNN.com, 2000. [cited 24 August 2000;10:25 EST]. In-depth specials.
Available from: [<http://www.cnn.com/SPECIALS/2000/genome/story/overview/>]

```
<nplcit id='ncit1' num='0002' type='E' medium='online'>
  <online>
    <author>
      <name>Clark, Carol</name>
    </author>
    <online-title>On the Threshold of a Brave New World</online-title>
    <imprint>
      <name>CNN.com, 2000</name>
    </imprint>
    <series>
      <text>In-depth specials</text>
    </series>
    <avail>http://www.cnn.com/SPECIALS/2000/genome/story/</avail>
    <datecit>
      <date>20000824; 10:25 est</date>
    </datecit>
  </online>
</nplcit>
```

* Personal communication (e-mail)

Thacker, Jane. MPEG-21 project stream on digital item identification [online].
Message to: [iso.tc46.sc9@nlc-bnc.ca]. 3 October 2000; 13:33 EST [cited 6
October 2000; 13:10 EST].
Message-ID: [002f01c02d60\$051a64a0\$22a2580c@vaio]. Personal communication.

```
<nplcit id='ncit3' num='0003' type='E' medium='online'>
  <online>
    <author>
      <name>Thacker, Jane</name>
    </author>
    <online-title>MPEG-21 project stream on digital item identification
    </online-title>
    <subname>
      <name>Message to: <iso.tc46.sc9@nlc-bnc.ca></name>
    </subname>
    <pubdate>3 October 2000; 13:33 EST</pubdate>
    <notes>Personal communication</notes>
    <avail>Message-ID: <002f01c02d60$051a64a0$22a2580c@vaio></avail>
    <datecit><date>6 october 2000; 13:10 EST</date></datecit>
  </online>
</nplcit>
```

```
-->
<!ELEMENT online (text | (author* , online-title* , hosttitle? , subname* ,
edition? , (serial | book)? , imprint? , pubdate? , history? , series? , hostno? ,
location? , notes? , avail , class* , keyword* , cpyrt? , issn? , isbn? , datecit?
, srchterm* , srchdate? , refno* , vid? , ino? , doi? , absno?))>

<!--
  Date of search/retrieval  YYYYMMDD
-->

-->
<!ELEMENT srchdate (date)>

<!--
  Search terms
-->

-->
<!ELEMENT srchterm (#PCDATA)>

<!--
  Date cited - date on which the citation was cited.
  May be different from srchdate below
-->

-->
<!ELEMENT datecit (date)>

<!--
  Availability and access - REQUIRED use for URL, online database, ftp address,
  email, etc.;
  e.g., Available from Internet: http://www.epoline.org
  Available from DIALOG Information Systems, Palo Alto (Calif.)
-->

-->
<!ELEMENT avail (#PCDATA)>

<!--
  Numeration within host document
-->

-->
<!ELEMENT hostno (#PCDATA)>

<!--
  History of the article (not serial)
-->

-->
<!ELEMENT history (text | (received | accepted | revised | misc))>

<!--
  Miscellaneous information relating to the history of the article; see ISO 12083
-->

-->
<!ELEMENT misc (#PCDATA | date)*>

<!--
  Date article was revised
-->

-->
<!ELEMENT revised (date)>

<!--
  Date article was accepted
```

```

-->
<!ELEMENT accepted (date)>

<!--
  Date article was received
-->
<!ELEMENT received (date)>

<!--
  Title of the host document/database
-->
<!ELEMENT hosttitle (#PCDATA)>

<!--
  The title of the electronic resource
-->
<!ELEMENT online-title (#PCDATA)>

<!--
  Article citations within a 'host' document

  After patent citations the most common citations are articles within serials
  (periodicals, magazines), books and electronic (eg. internet) sources.
  This is a very complex and varied area to standardise. The tag set below is drawn
  from a number of sources as is the order of the tags (which in any case can be
  changed depending on the stylesheet used).;

  The order of tags is that of WIPO ST.14 / ISO 690 layout.
  DROP, J.G. Integrated Circuit Personalization at the Module Level. IBM Tech.
  Dis. Bull. October 1974, Vol. 17, No. 5, p. 1344 and 1345.
  [XPnnnnnnnnnn].

  <nplcit id='ncit1' num='0012' type='S' file='XP1234456'>
    <article>
      <author>
        <name>DROP, J.G.</name>
      </author>
      <atl>Integrated Circuit Personalization at the Module Level</atl>
      <serial>
        <sertitle>IBM Tech. Dis. Bull.</sertitle>
        <pubdate>19741000</pubdate>
        <vid>17</vid>
        <ino>5</ino>
      </serial>
      <location>
        <pp>1344 and 1345</pp>
      </location>
      <refno id='XP1'>XP1234456</refno>
    </article>
  </nplcit>

  Note: it is NOT expected that the applicant will create the tagged data
  - it can be generated from a 'pull down' data entry form (eg. in Word) or
  generated from internal SR databases

-->
<!ELEMENT article (text | (author* , atl? , subname* , (serial | book) , absno? ,
location? , class* , keyword* , cpyrt? , artid? , refno*))>

<!--
  Article unique ID - assigned by a publisher to an article

```

```
-->
<!ELEMENT artid (#PCDATA)>

<!--
Book citation
In the order specified by WIPO ST.14 and ISO 690 and AACR2 rules for layout

WALTON, Herrmann. Microwave quantum theory.
London : Sweet and Maxwell, 1973. ISBN 0123456789.
Vol.2, p. 138 to 192.

  <nplcit id='ncit12' num='0013' type='b'>
    <book>
      <author>
        <name>WALTON, Herrman</name>
      </author>
      <book-title>Microwave quantum theory</book-title>
      <imprint>
        <address>
          <text>London</text>
        </address>
        <name>Sweet and Maxwell</name>
        <pubdate>19730000</pubdate>
      </imprint>
      <location>
        <pp>138 to 192</pp>
      </location>
      <isbn>0-1234-568-9</isbn>
    </book>
  </nplcit>

-->
<!ELEMENT book (text | (author* , (book-title+ | conference) , (subtitle? ,
subname* , edition? , imprint? , descrip? , series? , absno? , location* , isbn* ,
pubid? , vid? , bookno? , notes? , class* , keyword* , cpyrt? , refno* , doi? ,
ino? , issn?)))>

<!--
Keyword; e.g., from a Thesaurus or class. scheme
(ST.32:B550)

-->
<!ELEMENT keyword (#PCDATA)>

<!--
Book number

-->
<!ELEMENT bookno (#PCDATA)>

<!--
Location within the cited work

-->
<!ELEMENT location (text | (serpart? , sersect? , chapter? , pp? , column? , para?
, line?))>

<!--
Referenced line within cited work

-->
<!ELEMENT line (#PCDATA | linef | line1)*>

<!--
```



```
Cited document line, last

-->
<!ELEMENT line1 (#PCDATA)>

<!--
  Cited document line, first
-->
<!ELEMENT linef (#PCDATA)>

<!--
  Referenced paragraph within cited work
-->
<!ELEMENT para (#PCDATA | paraf | paral)*>

<!--
  Cited paragraph, last
-->
<!ELEMENT paral (#PCDATA)>

<!--
  Cited paragraph, first
-->
<!ELEMENT paraf (#PCDATA)>

<!--
  Cited document column numbers
-->
<!ELEMENT column (#PCDATA | colf | coll)*>

<!--
  Cited document column, last
-->
<!ELEMENT coll (#PCDATA)>

<!--
  Cited document column, first
-->
<!ELEMENT colf (#PCDATA)>

<!--
  Cited document page numbers
-->
<!ELEMENT pp (#PCDATA | ppf | ppl)*>

<!--
  Cited document page, last
-->
<!ELEMENT ppl (#PCDATA)>

<!--
```

```
Cited document page , first

-->
<!ELEMENT ppf (#PCDATA)>

<!--
  Chapter; e.g., in a book.  Example: Chapter 2
-->
<!ELEMENT chapter (#PCDATA)>

<!--
  Serial section
-->
<!ELEMENT sersect (#PCDATA)>

<!--
  Part within a serial
-->
<!ELEMENT serpart (#PCDATA)>

<!--
  Abstract number
-->
<!ELEMENT absno (#PCDATA)>

<!--
  Series statement
-->
<!ELEMENT series (text | (mst , msn? , issn?))>

<!--
  Monographic series number
-->
<!ELEMENT msn (#PCDATA)>

<!--
  Monographic series title
-->
<!ELEMENT mst (#PCDATA)>

<!--
  Edition statement
  (ST.32:B516)
-->
<!ELEMENT edition (#PCDATA)>

<!--
  Book subtitle
-->
<!ELEMENT subtitle (#PCDATA)>
```

```
<!--
  CONFERENCE GROUP / CITATION
  There is no standard way of citing conference proceedings; date of the conf. may
  come before or after place, for example. The tags are specified in a set order
  where it is not possible or correct then simply use <text>

-->
<!ELEMENT conference (text | (conftitle , confdate? , confno? , confplace? ,
confsponsor*))>

<!--

-->
<!ELEMENT confdate (date | (sdate , edate))>

<!--
  Conference sponsor

-->
<!ELEMENT confsponsor (#PCDATA | addressbook)*>

<!--
  Conference place

-->
<!ELEMENT confplace (#PCDATA | address)*>

<!--
  Conference number

-->
<!ELEMENT confno (#PCDATA)>

<!--
  Conference title

-->
<!ELEMENT conftitle (#PCDATA)>

<!--
  The title of the cited book

-->
<!ELEMENT book-title (#PCDATA)>

<!--
  Serial citation data:
  This describes the volume or issue as a whole and not a particular article within
  it.

-->
<!ELEMENT serial (sertitle , alttitle? , subname* , issue? , imprint? , pubdate? ,
descrip? , notes? , isbn? , issn? , pubid? , vid? , ino? , cpyrt? , doi?)>

<!--

-->
<!ELEMENT doi (#PCDATA)>
```

```
<!--  
  Copyright info.  Copyright of publisher of serial  
-->  
<!ELEMENT cpyrt (#PCDATA)>  
  
<!--  
  Issue number  
-->  
<!ELEMENT ino (#PCDATA)>  
  
<!--  
  Volume id/number  
-->  
<!ELEMENT vid (#PCDATA)>  
  
<!--  
  Publisher's unique id  
-->  
<!ELEMENT pubid (#PCDATA)>  
  
<!--  
  International Standard Book Number  
-->  
<!ELEMENT isbn (#PCDATA)>  
  
<!--  
  International Standard Serial Number  
-->  
<!ELEMENT issn (#PCDATA)>  
  
<!--  
  Notes about the journal; e.g. Continues Journal of XYZ 1910-1998, published in  
  French and English, etc.  
-->  
<!ELEMENT notes (#PCDATA)>  
  
<!--  
  Physical description - generally NOT used in citations in pats; e.g., v., 27cm  
-->  
<!ELEMENT descrip (#PCDATA)>  
  
<!--  
  Imprint:  
  Publication / creation data  
  Place of publication : publisher, date(s) of publication usually only date of  
  publication is used for journal citations  
-->  
<!ELEMENT imprint (text | (address? , name , pubdate*))>  
  
<!--  
  Publication date used in npl citations
```

```
-->
<!ELEMENT pubdate (#PCDATA | sdate | edate | time)*>

<!--
  Time; format HHMM
-->
<!ELEMENT time (#PCDATA)>

<!--
  End date used in pubdate
-->
<!ELEMENT edate (#PCDATA)>

<!--
  Start date used in pubdate
-->
<!ELEMENT sdate (#PCDATA)>

<!--
  Issue designation; e.g., Annual, 1971-, 1890-1972
-->
<!ELEMENT issue (#PCDATA)>

<!--
  Alternate title for serial; e.g. BMJ = British Medical Journal
-->
<!ELEMENT alttitle (#PCDATA)>

<!--
  Serial title
-->
<!ELEMENT sertitle (#PCDATA)>

<!--
  Article title
-->
<!ELEMENT at1 (#PCDATA)>

<!--
  Relevant passage group within patent; most used in search reports
  - use text in abstract, description and claims
-->
<!ELEMENT rel-passage (text | (passage+ , (category , rel-claims?)*))>

<!--
  Relevant claims
-->
<!ELEMENT rel-claims (#PCDATA)>

<!--
  Category
```

```
(ST.32:B563)

-->
<!ELEMENT category (#PCDATA)>

<!--
  Passage within the cited patent literature
-->
<!ELEMENT passage (#PCDATA)>

<!--
  Declaration information including combined declaration
  and designated country
-->
<!ELEMENT declaration-info (declaration1? , declaration2? , declaration3? ,
declaration4? , declaration5? , combined-declaration? , designated-states-as-dec*)>

<!--
  Designated states for which indications are made: all except United States
-->
<!ELEMENT all-designations-except-us EMPTY>

<!--
  All designations permitted by the Treaty are made (Rule 4.9(b))
-->
<!ELEMENT all-designations EMPTY>

<!--
  PCT/RO/101 Box No.VII :International Searching Authority
-->
<!ELEMENT search-authority (isa , earlier-search-request?, earlier-search-
authorization*)>

<!--
  Request to use results of earlier search; reference to that search
-->
<!ELEMENT earlier-search-request (document-id , substantially-equivalent? ,
earlier-search-documents?)+>

<!--
-->
<!ELEMENT substantially-equivalent EMPTY>

<!--
  International Search Authority; international search to be carried out by
-->
<!ELEMENT isa (country)>

<!--
  information of priority claims and priority document.
-->
<!ELEMENT wo-priority-info (priority-claim , priority-claim-ib-info? ,
incorporation-by-reference?)+>
```

```
<!--  
  where an element of the international application referred to in Article  
  11(1)(iii)(d) or (e) or a part of the description, claims or drawings referred to  
  in Rule 20.5(a) is not otherwise contained in this international application but is  
  completely contained in an earlier application whose priority is claimed on the  
  date on which one or more elements referred to in Article 11(1)(iii) were first  
  received by the receiving Office, that element or part is, subject to confirmation  
  under Rule 20.6, incorporated by reference in this international application for  
  the purposes of Rule 20.6  
-->  
<!ELEMENT incorporation-by-reference EMPTY>  
  
<!--  
  The priority document is attached to the application  
-->  
<!ELEMENT priority-doc-attached EMPTY>  
  
<!--  
  The receiving office is requested to prepare and transmit to the IB a certified  
  copy of the earlier application  
-->  
<!ELEMENT priority-doc-requested EMPTY>  
  
<!--  
  This element is made when the receiving Office is requested to restore the  
  right of priority.  
-->  
<!ELEMENT restore-rights EMPTY>  
  
<!--  
  Where the earlier application is an ARIPO application, indicate at least one  
  country party to the PARIS convention for the protection of industrial property  
  or one member of the WTO for which that earlier application was filed.  
-->  
<!ELEMENT office-of-filing ((region , country?) | country)>  
  
<!--  
  Additional priority claim information by IB  
-->  
<!ELEMENT priority-claim-ib-info (received-at-ib? , pct-rule17-1? , withdrawn? ,  
  considered-not-made?)>  
  
<!--  
  PCT/RO/101 Box No.V Designation Of States (PCT Rule 4.9)  
-->  
<!ELEMENT designation-of-states (designation-pct , (precautionary-designation-  
  statement? , exclusion-from-designation?))>  
  
<!--  
  Rule 4.9(b),(c)  
  In addition to the designations made above [i.e, designation-of states], the  
  applicant also makes under Rule 4.9(b) all other designations which would be  
  permitted under the PCT except any designation(s) indicated in the Supplemental  
  Box [i.e., exclusion-from-designation] as being excluded from the scope of this  
  statement. The applicant declares that those additional designations are
```

```
subject to confirmation and that any designation which is not confirmed before
the expiration of 15 months from the priority date is to be regarded as
withdrawn by the applicant at the expiration of that time limit.

-->
<!ELEMENT precautionary-designation-statement (#PCDATA)>

<!--
  State(s) excluded from precautionary designations under Rule 4.9(b)
-->
<!ELEMENT exclusion-from-designation (regional* , national?)>

<!--
  The Contracting States in which protection is desired
  (Rules 4.1(a)(iv) and 4.9(a))
-->
<!ELEMENT designation-pct (regional* , national? , new-designation-country*)>

<!--
  New PCT member country states (e.g., not yet published in WIPO ST.3, joined after
  PCT electronic filing software published)
-->
<!ELEMENT new-designation-country (#PCDATA)>

<!--
  The States for which protection or exclusion (depending upon context) is desired
-->
<!ELEMENT national (country , protection-request*)+>

<!--
  Regional (as opposed to national) protection being sought
-->
<!ELEMENT regional (region , (country , protection-request*)+ , any-other-state?)>

<!--
  Any other state in which protection is being sought
-->
<!ELEMENT any-other-state EMPTY>

<!--
  Kind of protection; e.g., patent, utility model
-->
<!ELEMENT kind-of-protection (#PCDATA)>

<!--
  PCT/RO/101 Box No.II, III and IV APPLICANTS, FURTHER APPLICANT(S)
  AND/OR (FURTHER) INVENTOR(S)AGENT OR COMMON REPRESENTATIVE;
  OR ADDRESS FOR CORRESPONDENCE (PCT Rule 4.5, 4.6, 4.7, 4.8)
  (INID 70, ST.32:B700)
-->
<!ELEMENT parties (applicants , inventors? , correspondence-address? , agents?)>
```



```
<!--
  Information regarding Agents or common representatives
-->
<!ELEMENT agents (customer-number | agent+)>

<!--
  Address used for general correspondence
-->
<!ELEMENT correspondence-address (customer-number | addressbook+)>

<!--
  Customer number for agents by office
-->
<!ELEMENT customer-number (#PCDATA)>

<!--
  Inventors information:
  If the US is designated, all of the inventors must also be named as applicants
  for purposes of that designation.
-->
<!ELEMENT inventors (inventor | deceased-inventor)+>

<!--
  Applicants information:
  At least one of the applicants named must be a resident or national of a PCT
  Contracting State for which the receiving Office acts.
-->
<!ELEMENT applicants (applicant+)>

<!--
  Bold formatting for text
-->
<!ELEMENT b (#PCDATA | i | u | o | smallcaps | sup | sub)*>

<!--
  Italic formatting for text
-->
<!ELEMENT i (#PCDATA | b | u | o | smallcaps | sup | sub)*>

<!--
  Small capitals
-->
<!ELEMENT smallcaps (#PCDATA | b | u | i | o)*>

<!--
  Subscripted text
-->
<!ELEMENT sub (#PCDATA | b | u | i | o | sup2 | sub2)*>

<!--
  Superscripted text
```

```
-->
<!ELEMENT sup (#PCDATA | b | u | i | o | sup2 | sub2)*>

<!--
  Subscripted text
-->
<!ELEMENT sub2 (#PCDATA | b | u | i | o)*>

<!--
  Superscripted text
-->
<!ELEMENT sup2 (#PCDATA | b | u | i | o)*>

<!--
  Applicant's or agent's file reference, if desired, 12 characters maximum
-->
<!ELEMENT file-reference-id (#PCDATA)>

<!--
  information of changing of bibliographic data
-->
<!ELEMENT wo-bib-change-info (bib-change-request+)>

<!--
  Bibliographic changing information
  address, name,nationality,residence
-->
<!ELEMENT bib-change-request (received-at-ib , previous-record)>

<!--
  Previous record of bibliographic in application before changing
-->
<!ELEMENT previous-record (applicant | inventor | deceased-inventor | agent)>

<!--
  Rule 4.6(c):
  "The request may, for different designated states, indicate different persons
  as inventors where, in this respect, the requirements of the national laws of
  the designated States are not the same. In such a case, the request shall
  contain a separate statement for each designated State or group of States in
  which a particular person, or the same person, is to be considered the
  inventor, or in which particular persons, or the same persons, are to be
  considered the inventors."
-->
<!ELEMENT designated-states-as-inventor (country* , (region , country+)*>

<!--
  Indication of specific Contracting States in or for which the applicant is
  seeking protection for his invention
  (Rule 4.9(a))
-->
<!ELEMENT designated-states (country* , (region , country+)*>

<!--
```

```
Country of residence

-->
<!ELEMENT residence (country)>

<!--
Country of nationality

-->
<!ELEMENT nationality (country)>

<!--
Universal Resource Locator; e.g. www.wipo.int

-->
<!ELEMENT url (#PCDATA)>

<!--
Fax number

-->
<!ELEMENT fax (#PCDATA)>

<!--
Telephone number

-->
<!ELEMENT phone (#PCDATA)>

<!--
Electronic address use for other than email

-->
<!ELEMENT ead (#PCDATA)>

<!--
Address components:
Address formats differ from country to country
If no structure possible use text

-->
<!ELEMENT address (%address_group;)>

<!--
If no structure is possible, enter text (without markup)

-->
<!ELEMENT text (#PCDATA)>

<!--
Postal code or zip code

-->
<!ELEMENT postcode (#PCDATA)>

<!--
Region of country; e.g., state, province, etc.

-->
<!ELEMENT state (#PCDATA)>
```

```
<!--  
  County, parish, department, etc (mainly UK, USA)  
-->  
<!ELEMENT county (#PCDATA)>  
  
<!--  
  City or town name  
-->  
<!ELEMENT city (#PCDATA)>  
  
<!--  
  Street may contain house number or name  
-->  
<!ELEMENT street (#PCDATA)>  
  
<!--  
  Building information in address; e.g., Hoffman building  
-->  
<!ELEMENT building (#PCDATA)>  
  
<!--  
  Address floor; e.g., 10th  
-->  
<!ELEMENT address-floor (#PCDATA)>  
  
<!--  
  Address room; e.g., Room 55B  
-->  
<!ELEMENT room (#PCDATA)>  
  
<!--  
  Post Office Box number  
-->  
<!ELEMENT pobox (#PCDATA)>  
  
<!--  
  Organizational mail code  
-->  
<!ELEMENT mailcode (#PCDATA)>  
  
<!--  
  Address, fifth line  
-->  
<!ELEMENT address-5 (#PCDATA)>  
  
<!--  
  Address, fourth line  
-->  
<!ELEMENT address-4 (#PCDATA)>
```

```
<!--  
  Address, third line  
-->  
<!ELEMENT address-3 (#PCDATA)>  
  
<!--  
  Address, second line  
-->  
<!ELEMENT address-2 (#PCDATA)>  
  
<!--  
  Address, first line  
-->  
<!ELEMENT address-1 (#PCDATA)>  
  
<!--  
  Registered number  
-->  
<!ELEMENT registered-number (#PCDATA)>  
  
<!--  
  Synonym  
-->  
<!ELEMENT synonym (#PCDATA)>  
  
<!--  
  Department, division, section, etc. name  
-->  
<!ELEMENT department (#PCDATA)>  
  
<!--  
  Organisation name or company name  
-->  
<!ELEMENT orgname (#PCDATA)>  
  
<!--  
  Role; e.g., President, Chairman, etc.  
-->  
<!ELEMENT role (#PCDATA)>  
  
<!--  
  SDOBI : Individual id  
-->  
<!ELEMENT iid (#PCDATA)>  
  
<!--  
  Name suffix (e.g., II, Jr., Dip., Ing., BA, etc.)  
-->  
<!ELEMENT suffix (#PCDATA)>
```

```
<!--  
  Middle name(s) or initial(s)  
-->  
<!ELEMENT middle-name (#PCDATA)>  
  
<!--  
  First or given name(s), initial(s)  
-->  
<!ELEMENT first-name (#PCDATA)>  
  
<!--  
  Last, family, surname  
-->  
<!ELEMENT last-name (#PCDATA)>  
  
<!--  
  Title: e.g., Mr., Mrs., Dr. etc  
-->  
<!ELEMENT prefix (#PCDATA)>  
  
<!--  
  WIPO amendment information:  
  art 19 amendment, date of receipt at IB  
-->  
<!ELEMENT wo-amendment-info (received-at-ib)>  
  
<!--  
  WIPO application information:  
  received-at-ib : date of receipt of record copy by International Bureau  
-->  
<!ELEMENT wo-application-info (date-of-earliest-priority? , received-at-ib? ,  
considered-not-made? , withdrawn?)>  
  
<!--  
  Where the international application claims the priority of several earlier  
  applications, the filing date of the earliest application whose priority is  
  claimed must be indicated as the priority date.  
-->  
<!ELEMENT date-of-earliest-priority (date)>  
  
<!--  
  Demand withdrawn by a notice from applicant  
  (PCT Article 37; PCT Rule 90bis.4)  
-->  
<!ELEMENT withdrawn (date)>  
  
<!--  
  Declaration by the receiving office or IB that priority claim is considered,  
  for the purposes of the procedure under the Treaty not to have been made  
-->  
<!ELEMENT considered-not-made (date , made-by?)>
```

```
<!ELEMENT made-by (country* , (region , country+)*)>

<!--
  The region for which protection or exclusion (depending upon context) is desired.
-->
<!ELEMENT region (country)>

<!--
  WIPO publication information:
-->
<!ELEMENT wo-publication-info (wo-correction* , wo-bio-material-after-pub? , isr-
status* , pct-pub-info* , wo-pubnum?)>

<!ELEMENT wo-pubnum (#PCDATA)>

<!--
  PCT published pamphlet information
-->
<!ELEMENT pct-pub-info (wo-published-text , pct-art64*)>

<!--
  published text in PCT pamphlet front page.
-->
<!ELEMENT wo-published-text (wo-text-letter-code+)>

<!ELEMENT wo-text-letter-code (#PCDATA)>

<!--
  PCT Article 64: Reservations
-->
<!ELEMENT pct-art64 (date? , document-id?)>

<!--
  a reference to deposited biological material that was received by IB
  after completion of technical preparations for international publication
-->
<!ELEMENT wo-bio-material-after-pub (received-at-ib , relevant-date?)>

<!--
  Relevant date
-->
<!ELEMENT relevant-date (date)>

<!--
  International Bureau receipt date
-->
<!ELEMENT received-at-ib (date)>

<!--
  WO Patent correction information.
-->
```

```
<!ELEMENT wo-correction (document-id? , type-of-correction? , wo-repub-code , wo-
pubnum? , wo-dtext*)>

<!--
  Descriptive text
-->
<!ELEMENT dtext (#PCDATA)>

<!--
  br - break, line break within a paragraph
-->
<!ELEMENT br EMPTY>

<!ELEMENT wo-repub-code (#PCDATA)>

<!--
  Type of correction.
  (ST.32:B667)
-->
<!ELEMENT type-of-correction (#PCDATA)>

<!--
  Date: components of a date.  Format: YYYYMMDD
-->
<!ELEMENT date (#PCDATA)>

<!--
  Document kind code; e.g., A1
  (INID 13, ST.32:B130)
-->
<!ELEMENT kind (#PCDATA)>

<!--
  The number of the referenced patent (or application) document
-->
<!ELEMENT doc-number (#PCDATA)>

<!--
  Country: use ST.3 country code; e.g. DE, FR, GB, NL, etc.
  Also includes EP, WO
-->
<!ELEMENT country (#PCDATA)>

<!--
  Authorization to RO to transmit earlier search
-->
<!ELEMENT earlier-search-authorization (document-id )>
<!ATTLIST earlier-search-authorization request-ro-not-transmit
(yes |
no ) #IMPLIED
applicant-authorizes-ro-transmit
(yes |
no ) #IMPLIED >
```


5.7 Publication par le Bureau international

```

<?xml version='1.0' encoding='UTF-8' ?>

<!ENTITY % name_group "((name | (prefix? , (last-name | orgname) , first-name? ,
middle-name? , suffix? , iid? , role? , orgname? , department? , synonym*)) ,
registered-number?)">

<!ENTITY % address_group "((address-1? , address-2? , address-3? , address-4? ,
address-5? , mailcode? , pobox? , room? , address-floor? , building? , street? ,
city? , county? , state? , postcode? , country) | text)">

<!ENTITY % amend_content "(invention-title | heading+ | p+ | doc-page+ | claim+ |
figure+)">

<!--
*****
* wo-published-application v1.11      2017  JULY                               *
*****
* PUBLIC "-//WIPO//DTD WO PUBLISHED APPLICATION 1.11//EN"                   *
*                                                                              *
*                                                                              *
* https://www.wipo.int/pct-safe/en/resources/1.15/                          *
*                                                                              *
*                                                                              *
*                                                                              *
*                                                                              *
*                                                                              *
*                                                                              *
* contacts:                                                                    *
*   WIPO: Yuya USHIDA; yuya.ushida@wipo.int                                  *
*****
* revision history                                                              *
*****
Asahi HASEBE : 01/07/17 incorporated changes from PFC
..changed version number from v1.10 to v1.11
..added an attribute "id" to signatory, lack-of-novelty and us-rights
..added an attribute "color" to "figure".
..added an element " earlier-search-authorization" to search-authority
SY: 01/07/12 incorporated changes from PFC:
..changed version number from v1.9 to v1.10
..added attribute 'priority-doc-access-code' to priority-doc-from-library
(PFC12/001)
SY: 01/04/10 incorporated changes from PFC
..changed version number from v1.8 to v1.9
..added element 'priority-doc-from-library' to priority-claim (PFC09/005)
..changed value of attribute lang of amend-statement from '#REQUIRED' to
'#IMPLIED'(PFC09/006)
..changed value of attribute status of amend-statement from '#REQUIRED' to
'#IMPLIED'(PFC09/006)
MO: 01/07/09 incorporated changes from PFC
..changed version number from v1.7 to v1.8
..added attribute 'electronic-format-type' to sequence-list (PFC09/001)
..added attribute 'part-of-application' to sequence-list (PFC09/001)
MO: 01/01/09 incorporated changes from PFC
..changed version number from v1.6 to v1.7
..added element 'summary-of-invention' to description (PFC08/008)
..added element 'description-of-embodiments' to description (PFC08/008)
..added element 'reference-signs-list' to description (PFC08/008)
..added element 'reference-to-deposited-biological-material' to description
(PFC08/008)
..added element 'citation-list' to description (PFC08/008)
MO: 01/07/08 incorporated changes from PFCs:
..changed version number from v1.5 to v1.6
..added element 'substantially-equivalent' to earlier-search-request (PFC08/003)
..added element 'earlier-search-document' to earlier-search-request (PFC08/003)
..added attribute 'email-purpose' to email (PFC08/006)
MO: 01/01/07 incorporated changes from PFCs:
..changed version number from v1.4 to v1.5
..implementation of PFC06/001
..changed element '(all-designations | all-designations-except-us | designated-

```

```
status)'
  to '(all-designations | all-designations-except-us | designated-status)?'
  in identity-of-inventor (PFC06/002)
..changed element '(all-designations | all-designations-except-us | designated-
status)'
  to '(all-designations | all-designations-except-us | designated-status)?'
  in matter (PFC06/002)
..changed element '(all-designations | designated-status)'
  to '(all-designations | designated-status)?' in lack-of-novelty (PFC06/002)
..added element 'sup' to u (PFC06/003)
..added element 'sup' to i (PFC06/003)
..added element 'sup' to b (PFC06/003)
..added element 'sub' to u (PFC06/003)
..added element 'sub' to i (PFC06/003)
..added element 'sub' to b (PFC06/003)
..added element 'o' to invention-title, b, i, sup, sup2, sub, sub2, heading, claim-
text,
  p, small-caps, dt, dd, li, crossref, figref, othercit, statement (PFC06/003)
..added element 'incorporation-by-reference' to wo-priority-info (PFC06/004)
..added element 'restore-rights' to priority-claim (PFC06/004)
..added element 'address-4' to address (PFC06/005)
..added element 'address-5' to address (PFC06/005)
..added attribute 'subset' to protection-request (PFC06/005)
MO: 04/10/05
..changed version FROM 1.3 TO 1.4
..added attribute 'orientation' to abstract-figure
..added attribute 'lang' to abstract-figure
..changed element wo-publication-info
  FROM (wo-correction* , wo-bio-material-after-pub? , isr-status* , pct-pub-info*)
  TO (wo-correction* , wo-bio-material-after-pub? , isr-status* , pct-pub-info* ,
wo-pubnum?)
..added element 'wo-pubnum'
..changed element wo-correction
  FROM (document-id? , type-of-correction? , wo-repub-code , dtext?)
  TO (document-id? , type-of-correction? , wo-repub-code , wo-pubnum? , wo-dtext*)
..added element wo-dtext
..changed element wo-published-application
  FROM ( ( wo-bibliographic-data , abstract? , abstract-figure? , front-page ,
description? , claims? , wo-amended-claims? , amend-statement? , drawings? ) |
sequence-list-doc | biological-material-doc | lack-of-novelty | pct-rule91-1f |
priority-claim-considered-not-made | pct-art17.2a | wo-search-report)*
  TO ( wo-bibliographic-data , abstract* , abstract-figure* , front-page? ,
description? , claims? , wo-amended-claims? , amend-statement? , drawings? , (
sequence-list-doc | biological-material-doc | lack-of-novelty | pct-rule91-1f |
priority-claim-considered-not-made | pct-art17.2a | wo-search-report )* , wo-ocr-
text? , wo-xml-application?)
..added element wo-ocr-text
..added element wo-xml-application
HT: 14/12/04 incorporated changes from PFCs:
..changed element correction from (document-id? , type-of-corection? , wo-repub-
code , dtext? to (document-corrected , type-of-correction? , gazette-reference? ,
text?)
..changed element nplcit from '(text | (article , book , online , othercit)*)' to
'(text | article | book | online | othercit)')
..changed element othercit from '(#PCDATA)' to '(#PCDATA | b | i | u | sup | sub)*'
..changed element rel-passage from (text | (passage+ , category? , rel-claims?)) to
(text | (passage+ , category* , rel-claims*)+)
..changed element sequence-list-doc from (docpage+ | sequence-list) to (#PCDATA |
doc-page | sequence-list)*
..changed element name from 'amended-claims' to wo-amended-claims''
..changed element name from 'correction' to 'wo-correction'
..changed attribute of correction from '#REQUIRED' to '#IMPLIED'
..changed attribute he, wi of doc-page, img from 'NMTOKEN' to 'CDATA'
..changed value of attribute idref of crossref from 'CDATA' to 'IDREF'
..changed value of attribute tsize of dl from 'NMTOKEN' to 'CDATA'
..changed value of attribute num of patcit, nplcit from '#REQUIRED' to 'IMPLIED'
..changed value of attribute xml:space of pre from '#FIXED 'preserve' to
'(preserve | default #IMPLIED)')
..changed value name of attribute listing-type of pre from 'software-code' to
'program-listing'
```

```

..added element 'classifications-ipcr' to wo-bibliographic-data
..added element 'pre' to claim-text, dd, li
..added element 'wo-correction' to wo-publication-info
..added attribute 'id' to addressbook, application-reference, classification-ipc,
priority-claim, publication-reference
..added attribute 'chem-type' to chem
..added attribute 'claim-type' to claim, claims
..added attribute 'class-type' to class
..added attribute 'ocr' to doc-page
..added attribute 'sequence', 'id' to further-classification
..added value 'other-subname-type' to attribute 'subname-type' of subname
..removed attribute 'country' from amended-claim
..removed attribute 'lang', 'status', 'dtd-version' from chem
HT: 20/07/04 incorporated changes from PFCs:
..changed version number from v1.2 to v1.3
..changed element article, online, serial from 'subname?' to 'subname*'
..changed element chemistry from '(img)' to '(img|(chem,img?))'
..changed element maths from '(img|math)' to '(img|(math,img?))'
..changed element rel-passage from 'category?, rel-claims?' to 'category*, rel-
claims*'
..added element 'figref' to claim-text, dd, li
..added element 'b', 'i', 'u', 'sup', 'sub', 'smallcaps' to crossref
..added attribute 'num' to li
..added attribute 'subname-type' to subname
..added value 'chem', 'table', 'math', 'program-listing', 'flowchart' to attribute
'img-content' of img
..added value 'national-office', 'regional-office' to attribute produced-by of root
element
..removed attribute 'class-type' from nplcit
HT: 16/12/03 incorporated changes from PFCs:
..changed version number from v1.0 to v1.2
..changed table-external from '#PCDATA' to 'EMPTY'
..changed element designation-of-states
  from '(precautionary-designation-statement, exclusion-from-designation?)?'
  to '(precautionary-designation-statement?, exclusion-from-designation?)?'
..added element 'pre' to p content model
..added element 'sup2' and 'sub2' to sup and sub
..added attribute 'lang' and 'class-type' to nplcit
..added attribute 'external-type' to table-external
..added attribute 'figure-labels' to figure
June 2003
..released version number as v1.0
*****

*****
* XML VERSION FOR FILING OF PCT APPLICATIONS: *
* description, claims, abstract, drawings - *
* it may be utilised by other offices as required - *
* but it is NOT recommended to add or change element and *
* attribute names *
* see: http://pcteasy.wipo.int/efiling\_standards/EFPage.htm *
* *
* It is intended for a) Online Filing b) (later) publication, etc *
* within the context of a new version of ST.32 (ST.32X) *
* In developing this DTD we have taken into consideration: *
* - earlier versions of this dtd *
* - ST32 version 3 *
* - Variations of ST.32 in: WIPO, USPTO, MIMOSA, etc *
* - USPTO EFS dtd *
* - Trilateral Common data dictionary *
* - ISO 12083 dtDs, etc *
*****

*****
* SECTION I - DECLARATION, ENT. REFS, ISO sets, etc *
*****

-->
<!--
import character entity set. Download from:
http://pcteasy.wipo.int/efiling\_standards/schemaDocs/wipo.ent

```

```

Note that nsgmls-based parsers (SP, Near and Far Designer, etc.)
may not be able to process this file for reasons described below
in MathML comments.
-->
<!--ENTITY % wipo PUBLIC "-//WIPO//ENTITIES WIPO 1.0//EN" "wipo.ent">
%wipo;-->

<!--
*****
* INCLUDE COMPONENT DTDS (MATHML, OASIS EXCHANGE TABLE MODEL          *
*****
-->
<!-- DTD MathML2: maintained by W3C.  Download from:
      http://www.w3.org/TR/MathML2/DTD-MathML-20010221.zip

      If using nsgmls-based parser (SP, Near and Far Designer, etc.)
      uncomment 'mathml-charent-module' switch below or replace the
      referenced MathML2 DTD with the version downloadable from:
      http://www.w3.org/Math/DTD/dtd-sp.zip

      This notice copied from: http://www.w3.org/Math/DTD/

      "DTD for nsgmls
      Some systems (including the popular nsgmls parser) may not be able
      to process files using 'plane 1' characters which have Unicode
      numbers higher than #xFFFF. The versions of the DTD provided here
      incorporate the modifications mentioned above, but the high
      characters are replaced by the equivalent mchar construct
      <mchar name="..." /> this allows the DTD to be read and for MathML
      files to be validated using such systems."
-->
<!--ENTITY % mathml-charent.module "IGNORE" -->
<!ENTITY % MATHML.prefixed "IGNORE">

<!ENTITY % MATHML.xmlns "">

<!-- import MathML2 dtd -->
<!ENTITY % mathml2 PUBLIC "-//W3C//DTD MathML 2.0//EN" "mathml2.dtd">
%mathml2;

<!-- DTD OASIS Open XML Exchange Table Model.
      Maintained by OASIS; download from:
      http://www.oasis-open.org/specs/soextblx.dtd
      Note that the FPI in soextblx.dtd refers to itself as 'calstblx'.
      That convention has been followed here.
-->
<!-- create content for title element in table -->
<!ENTITY % title "<!ELEMENT title (#PCDATA | b | i | u | sup | sub | smallcaps)* >
">
%title;

<!-- override OASIS Exchange <entry> model -->
<!ENTITY % tbl.entry.mdl "(#PCDATA | b | i | u | sup | sub | smallcaps | br
      | patcit | nplcit | bio-deposit | crossref | img
      | dl | ul | ol | chemistry | maths)* ">

<!-- import OASIS Exchange model -->
<!ENTITY % calstblx PUBLIC "-//OASIS//DTD XML Exchange Table Model 19990315//EN"
      "soextblx.dtd">
%calstblx;
<!--
*****
* SECTION II - DTD
*****

Attributes for demand
id          = unique id for this application - could be file name
country     = st.3 code for application
dtd-version = dtd version number

```

```
lang          = language of application - use ISO639 language code
status        = status of the application; values: new = new application
file          = filename of the whole application
date-produced = YYYYMMDD e.g, 20011230 if desired, 12 characters maximum
ipea         = IPEA office name, country code ST.3
produced-by   = creator of this document

-->
<!ELEMENT wo-published-application (wo-bibliographic-data , abstract* , abstract-
figure* , front-page? , description? , claims? , wo-amended-claims? , amend-
statement? , drawings? , (sequence-list-doc | biological-material-doc | lack-of-
novelty | pct-rule91-1f | priority-claim-considered-not-made | pct-art17.2a | wo-
search-report)* , wo-ocr-text? , wo-xml-application?)>

<!ATTLIST wo-published-application lang          CDATA #REQUIRED
                                dtd-version      CDATA #IMPLIED
                                file             CDATA #IMPLIED
                                produced-by      (applicant |
                                                RO |
                                                ISA |
                                                IPEA |
                                                IB |
                                                DO |
                                                EO |
                                                national-office |
                                                regional-office ) #REQUIRED
                                date-produced    CDATA #IMPLIED
                                office-name      CDATA #IMPLIED
                                status          CDATA #IMPLIED >

<!ELEMENT wo-bibliographic-data (publication-reference? , wo-publication-info? ,
application-reference? , wo-application-info? , wo-amendment-info? , wo-bib-change-
info? , wo-demand-info? , file-reference-id? , invention-title* , parties? ,
designation-of-states? , wo-priority-info? , search-authority? , declaration-info?
, classification-ipc? , classifications-ipcr? , figure-to-publish? , signatories? ,
correspondence-address? , dtext?)>

<!ATTLIST wo-bibliographic-data date-produced CDATA #IMPLIED
                                lang           CDATA #IMPLIED
                                dtd-version    CDATA #IMPLIED
                                file          CDATA #IMPLIED
                                status        CDATA #IMPLIED
                                office-name   CDATA #IMPLIED
                                produced-by   (applicant |
                                                RO |
                                                ISA |
                                                IPEA |
                                                IB |
                                                DO |
                                                EO |
                                                national-office |
                                                regional-office ) #REQUIRED >

<!--
  Later election information
-->
<!ELEMENT later-election (received-at-ib)>

<!ATTLIST later-election  expiration-19months (before | after ) #REQUIRED >

<!--
  PCT/IPEA/401
  The date of receipt of the demand is AFTER the expiration of 19 months from the
  priority date
-->
<!ELEMENT receipt-after-19month EMPTY>
```

```
<!ATTLIST receipt-after-19month informed (yes | no ) #IMPLIED >

<!--
  IPER status information, date of receipt at IB,
  information of new IPER or corrected IPER.
-->
<!ELEMENT iper-status (received-at-ib?)>

<!ATTLIST iper-status iper-status (new | corrected ) #REQUIRED >

<!--
  A signature represented by electronic means
-->
<!ELEMENT electronic-signature (basic-signature | enhanced-signature)>

<!ATTLIST electronic-signature date          CDATA #REQUIRED
                                place-signed CDATA #IMPLIED >

<!--
  A TIFF image of a signature
-->
<!ELEMENT fax-image EMPTY>

<!ATTLIST fax-image file CDATA #REQUIRED >

<!ELEMENT classifications-ipcr (classification-ipcr+)>

<!ATTLIST classifications-ipcr id ID #IMPLIED >

<!--
  International Patent Classification (IPC) data;
-->
<!ELEMENT classification-ipcr ((ipc-version-indicator , classification-level? ,
section , class , subclass , main-group? , subgroup? , symbol-position? ,
classification-value? , action-date? , generating-office? , classification-status?
, classification-data-source?) | text)>

<!ATTLIST classification-ipcr id          ID #IMPLIED
                                sequence CDATA #IMPLIED >

<!--
  International Patent Classification (IPC) data;
  (INID 51, ST.32:B510)
-->
<!ELEMENT classification-ipc (edition , main-classification , further-
classification* , (additional-info | linked-indexing-code-group | unlinked-
indexing-code)* , text?)>

<!ATTLIST classification-ipc id ID #IMPLIED >

<!--
  Further/secondary classification
  (ST.32:B512/B522)
-->
<!ELEMENT further-classification (#PCDATA)>

<!ATTLIST further-classification id          ID #IMPLIED
                                sequence CDATA #IMPLIED >

<!--
  Designated states for declarations
-->
<!ELEMENT designated-states-as-dec (all-designations | all-designations-except-us |
```

```
(regional* , national?))>

<!ATTLIST designated-states-as-dec dec-type (1 | 2 | 3 | 4 | 5 | combined )
#REQUIRED >

<!--
  Information of combined declaration(declaration 1 and 2)
-->
<!ELEMENT combined-declaration EMPTY>

<!ATTLIST combined-declaration quantity CDATA #REQUIRED >

<!--
  Declaration as to non-prejudicial disclosures or exceptions to lack of novelty
  (Rules 4.17(v) and 51bis.1(a)(v))
-->
<!ELEMENT declaration5 EMPTY>

<!ATTLIST declaration5 quantity CDATA #REQUIRED >

<!--
  Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes
  of the designation of the United States of America
-->
<!ELEMENT declaration4 EMPTY>

<!ATTLIST declaration4 quantity CDATA #REQUIRED >

<!--
  Declaration as applicant's entitlement, as at the international filing date, to
  claim the priority of the earlier application, where the applicant is not the
  applicant who filed the earlier application or where the applicant's name has
  changed since the filing of the earlier application
  (Rules 4.17(iii) and 51bis.1(a)(iii))
-->
<!ELEMENT declaration3 EMPTY>

<!ATTLIST declaration3 quantity CDATA #REQUIRED >

<!--
  Declaration as applicant's entitlement, as at the international filing date, to
  apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case
  where the declaration under Rule 4.17(iv) is not appropriate
-->
<!ELEMENT declaration2 EMPTY>

<!ATTLIST declaration2 quantity CDATA #REQUIRED >

<!--
  Declaration as to the identity of the inventor
  (Rules 4.17(i) and 51bis.1(a)(i))
-->
<!ELEMENT declaration1 EMPTY>

<!ATTLIST declaration1 quantity CDATA #REQUIRED >
<!--
-->
<!ELEMENT earlier-search-documents EMPTY>

<!ATTLIST earlier-search-documents results-of-earlier-search
(yes |
no ) #IMPLIED
earlier-application
```

```
(yes |
no ) #IMPLIED
                                translation-of-earlier-application
(yes |
no ) #IMPLIED
                                translation-of-results-of-earlier-search
(yes |
no ) #IMPLIED
                                documents-cited-in-earlier-search-results
(yes |
no ) #IMPLIED
                                available-at-isa
(yes |
no ) #IMPLIED
                                request-ro-to-transmit-to-isa
(yes |
no ) #IMPLIED >
<!--
  Priority claim (PCT Rule 4.10)
  (INID 32/33/34, ST.32:B320/B330/B340)
-->
<!ELEMENT priority-claim (country , doc-number? , date , office-of-filing? ,
(priority-doc-requested | priority-doc-attached | priority-doc-from-library)? ,
restore-rights?)>
<!ATTLIST priority-claim id          ID          #IMPLIED
                        sequence CDATA #REQUIRED
                        kind          (national | regional | international )
#REQUIRED >
<!--
  library-identifier attribute intended as an identifying code for the library
  containing the document ? to be used where offices support the access of documents
  from many such libraries

  action-by attribute would indicate the office requested to retrieve the document
  (for PCT this can be the RO or IB, default IB)

  priority-doc-access-code indicates, when present, the access code that the Office
  (or applicable Offices) should use to obtain the priority document from the
  specified digital library
-->
<!ELEMENT priority-doc-from-library EMPTY>
<!ATTLIST priority-doc-from-library library-identifier      CDATA #IMPLIED
                        action-by          CDATA #IMPLIED
                        priority-doc-access-code CDATA #IMPLIED >
<!--
  PCT Rule 17.1: Obligation to Submit Copy of Earlier
  National or International Application
-->
<!ELEMENT pct-rule17-1 EMPTY>
<!ATTLIST pct-rule17-1 compliance (yes | no ) #REQUIRED >
<!--
  Protection request for the designated office.
-->
```



```
<!ELEMENT protection-request (kind-of-protection , document-id?)>

<!ATTLIST protection-request subset (yes | no ) #IMPLIED >

<!--
  Agent or common representative (Rules 90.1, 90.2)
-->
<!ELEMENT agent (addressbook+)>

<!ATTLIST agent sequence CDATA #REQUIRED
                rep-type (agent | attorney | common-representative )
#REQUIRED >

<!--
  Deceased inventor name
-->
<!ELEMENT deceased-inventor (%name_group;)>

<!ATTLIST deceased-inventor sequence CDATA #IMPLIED
                             lang CDATA #IMPLIED >

<!--
  The individual or entity responsible for creating the matter that protection is
  sought for.
  (ST.32:B721)
-->
<!ELEMENT inventor (addressbook+ , designated-states?)>

<!ATTLIST inventor sequence CDATA #REQUIRED
                  designation (all | all-except-us | us-only | as-
indicated ) #IMPLIED >

<!--
  Applicant information:
  (INID 71, ST.32:B710)

  attributes for applicant
  sequence : sequence number of each applicant
             e.g, sequence="1"
  app-type : applicant type
             app-type="applicant" : the applicant is only applicant
             app-type="applicant-inventor" : the applicant is also inventor
  designation: This person is applicant for the purpose of:
                designation="all" : all designated states
                designation="all-except-us": all designated states except US
                designation="us-only" : US only
                designation="as-indicated" : the states indicated in
                                                designated-states element
                                                under applicant element
-->
<!ELEMENT applicant (addressbook+ , nationality , residence , us-rights* ,
designated-states? , designated-states-as-inventor?)>

<!ATTLIST applicant sequence CDATA #REQUIRED
                    app-type (applicant | applicant-inventor )
#REQUIRED
                    designation (all | all-except-us | us-only | as-
indicated ) #REQUIRED >

<!--
  This person is successor to the rights of an inventor who is deceased, insane, or
  legally incapacitated, for the purposes of the designation of the United States
  of America
-->
<!ELEMENT us-rights (#PCDATA)>
```

```
<!ATTLIST us-rights to-dead-inventor CDATA #REQUIRED
                    kind (heir |
                        heiress |
                        executor |
                        executrix |
                        estate |
                        legal-representative |
                        administrator |
                        administratrix |
                        legal-representatives |
                        heirs |
                        executors |
                        legal-heirs ) #REQUIRED
                    id ID #IMPLIED >

<!--
  ISR status information, date of receipt at IB,
  information of new ISR or corrected ISR.
-->
<!ELEMENT isr-status (received-at-ib?)>

<!ATTLIST isr-status isr-status (new | corrected ) #REQUIRED >

<!--
  Publication reference information: publication number, date, etc
  (INID 11, ST.32:B110)
-->
<!ELEMENT publication-reference (document-id)>

<!ATTLIST publication-reference id ID #IMPLIED >

<!--
  IB XML application
-->
<!ELEMENT wo-xml-application (description , claims , abstract* , wo-amended-claims?
, amend-statement? , drawings?)>

<!ATTLIST wo-xml-application lang CDATA #REQUIRED
                    status CDATA #IMPLIED >

<!--
  Text data made by the OCR system
-->
<!ELEMENT wo-ocr-text (wo-dtext)>

<!ATTLIST wo-ocr-text file CDATA #IMPLIED >

<!--
  IB original dtext, br tag is available.
-->
<!ELEMENT wo-dtext (#PCDATA | br)*>

<!ATTLIST wo-dtext lang CDATA #IMPLIED >

<!--
  Biological material component in PCT publication
-->
<!ELEMENT biological-material-doc ((application-reference? , file-reference-id? ,
indications+) | doc-page+)>

<!ATTLIST biological-material-doc id ID #IMPLIED
                    lang CDATA #IMPLIED
                    status CDATA #IMPLIED >
```



```
<!--
PCT Article 17.2(a):
  "If the International Searching Authority considers
    (i) that the international application relates to a subject matter which
        the International Searching Authority is not required, under the
        Regulations, to search, and in the particular case decides not to
        search, or
    (ii) that the description, claims, or the drawings, fail to comply with the
        prescribed requirements to such an extent that a meaningful search could
        not be carried out, the said Authority shall so declare and shall notify
        the applicant and the International Bureau that no international search
        report will be established."
-->
<!ELEMENT pct-art17.2a (doc-page+ | art17.2a-doc)>

<!ATTLIST pct-art17.2a lang CDATA #IMPLIED
                    id ID #IMPLIED
                    status CDATA #IMPLIED >

<!--
Sequence list document component in PCT publication
-->
<!ELEMENT sequence-list-doc (#PCDATA | doc-page | sequence-list)*>

<!ATTLIST sequence-list-doc id ID #IMPLIED
                    lang CDATA #IMPLIED
                    status CDATA #IMPLIED >

<!--
SEQUENCE LISTING
According to WIPO ST.25: STANDARD FOR THE PRESENTATION OF NUCLEOTIDE AND
AMINO ACID SEQUENCE LISTINGS IN PATENT APPLICATIONS:
  see http://www.wipo.int/scit/en/index.html
  "The sequence listing as defined in paragraph 2(i) shall, where it is filed
  together with the application, be placed at the end of the description
  part of the application. This part shall be entitled Sequence Listing,
  begin on a new page and preferably have independent page numbering.
  The sequence listing forms an integral part of the description; it is therefore
  unnecessary, subject to paragraph 36, to describe the sequences elsewhere
  in the description." Therefore we create here a separate sub-document for
  sequence listings, it should follow any drawings or the claims.
  It should follow the format of Annex C/ST.25 and be an external file
-->
<!ELEMENT sequence-list EMPTY>

<!ATTLIST sequence-list id ID #IMPLIED
                    file CDATA #REQUIRED
                    lang CDATA #IMPLIED
                    carriers (internal-electronic |
                            external-electronic |
                            paper ) #IMPLIED
                    seq-file-type CDATA #FIXED 'ST.25'
                    electronic-format-type (text | other ) #IMPLIED
                    status CDATA #IMPLIED
                    part-of-application (yes | no ) #IMPLIED >

<!--
Amended content of original application
-->
<!ELEMENT wo-amended-claims ((amend-statement? , (amend-body | (delete-object |
((insert-before-object | insert-after-object | replace-object)))+)) , text?)>

<!ATTLIST wo-amended-claims id ID #IMPLIED
                    lang CDATA #REQUIRED
                    claim-type CDATA #IMPLIED
```

```

                                status      CDATA #IMPLIED >

<!--
Replace referenced object with new content ;
e.g.,
  <replace-object id="p02">
    <p id="p01a" num="001a">(new content)</p>
  </replace-object>

-->
<!ELEMENT replace-object (%amend_content;)>

<!ATTLIST replace-object  id          ID          #IMPLIED
                           num         CDATA       #IMPLIED
                           location    CDATA       #IMPLIED >

<!--
Insert new content after referenced object;
e.g.,
  <insert-after-object id="p02">
    <p id="p03" num="003">(new content)</p>
  </insert-after-object>

-->
<!ELEMENT insert-after-object (%amend_content;)>

<!ATTLIST insert-after-object  id          ID          #IMPLIED
                                num         CDATA       #IMPLIED
                                location    CDATA       #IMPLIED >

<!--
Insert new content before referenced object;
e.g.,
  <insert-before-object id="p02">
    <p id="p01a" num="001a">(new content)</p>
  </insert-before-object>

-->
<!ELEMENT insert-before-object (%amend_content;)>

<!ATTLIST insert-before-object  id          ID          #IMPLIED
                                num         CDATA       #IMPLIED
                                location    CDATA       #IMPLIED >

<!--
Delete object from document; e.g., paragraph, claim, etc.
e.g,
  <delete-object id='p06'></delete-object>

-->
<!ELEMENT delete-object EMPTY>

<!ATTLIST delete-object  id          ID          #IMPLIED
                           num         CDATA       #IMPLIED
                           location    CDATA       #IMPLIED >

<!--
Amend entire sections of the application-body

-->
<!ELEMENT amend-body (doc-page+ | (description? , claims? , abstract? ,
drawings?))>

<!ATTLIST amend-body  id          ID          #IMPLIED
                       lang       CDATA       #REQUIRED
                       status     CDATA       #IMPLIED >

<!--
Drawings: PCT Article 7 / Rule 7
Drawings shall be required when they are necessary for the understanding of the
```

```
invention.

Recommended id = 'draw'

-->
<!ELEMENT drawings (doc-page+ | figure+)>

<!ATTLIST drawings id ID #IMPLIED
                  lang CDATA #IMPLIED
                  status CDATA #IMPLIED >

<!--
  A drawing (figure), necessary for the understanding of the invention

  Recommended id = f0001, f0002, etc.

-->
<!ELEMENT figure (img)>

<!ATTLIST figure id ID #IMPLIED
                 num CDATA #REQUIRED
                 figure-labels CDATA #IMPLIED
                 color (color | bw) #IMPLIED>

<!--
  Amendment statement (PCT Article 19.1, PCT Rule 46.4).
  May consist of a statement or an attached file

-->
<!ELEMENT amend-statement (doc-page+ | statement)>

<!ATTLIST amend-statement id ID #IMPLIED
                          lang CDATA #IMPLIED
                          status CDATA #IMPLIED >

<!--
  Claims:
  the claims shall define the matter sought for patent and be supported by the
  description.

  Recommended id = 'claim' or 'claim0001' for multiple claims

-->
<!ELEMENT claims (doc-page+ | claim+)>

<!ATTLIST claims id ID #IMPLIED
                 lang CDATA #IMPLIED
                 claim-type CDATA #IMPLIED
                 status CDATA #IMPLIED >

<!--
  Defines the matter for which protection is sought
  See PCT Rule 6:
  6.1.a: 'the number of claims shall be reasonable in consideration of what is
         being claimed.'
  6.1.b: 'if there are several claims, they shall be numbered consecutively in
         Arabic numerals.'

  Recommended id values
  If parent element is claims and there is only ONE set of claims:
    id = c0001, c0002, etc.;num = 0001, 0002, etc.
  If parent element is amended-claims and there is only ONE set then;
    id = ac0001, ac0002, etc.;num = 0001, 0002, etc.
  If parent element is claims and there are MULTIPLE sets of claims then:
    id = c01.0001, c01.0002, etc.;num = 0001, 0002, etc.
    id = c02.0001, c02.0002, etc.;num = 0001, 0002, etc.
  If parent element is amended-claims and there are MULTIPLE sets of
  amended-claims then:
    id = ac01.0001, ac01.0002, etc.;num = 0001, 0002, etc.
```

```
-->
<!ELEMENT claim (claim-text+)>

<!ATTLIST claim  id          ID          #IMPLIED
                 num        CDATA      #REQUIRED
                 claim-type CDATA      #IMPLIED >

<!--
  Reference to a claim
-->

<!ELEMENT claim-ref (#PCDATA)>

<!ATTLIST claim-ref  idref IDREFS  #REQUIRED >

<!--
  Description:
  The description must disclose the invention in a manner sufficiently clear and
  complete for it to be carried out by a person skilled in the art (Rule 5).

  Recommended id = 'desc'
-->

<!ELEMENT description (doc-page+ | (invention-title? , (technical-field |
background-art | disclosure | summary-of-invention | description-of-drawings |
description-of-embodiments | best-mode | mode-for-invention | industrial-
applicability | reference-signs-list | reference-to-deposited-biological-material |
sequence-list-text | citation-list | (heading* , p+)++))>

<!ATTLIST description  id          ID          #IMPLIED
                      lang        CDATA      #IMPLIED
                      status      CDATA      #IMPLIED >

<!--
-->
<!ELEMENT citation-list (patent-literature | non-patent-literature | (heading* ,
p*)++)>

<!ATTLIST citation-list  id ID          #IMPLIED >
<!--
-->
<!ELEMENT non-patent-literature (heading* , p+)++>

<!ATTLIST non-patent-literature  id ID          #IMPLIED >
<!--
-->
<!ELEMENT patent-literature (heading* , p+)++>

<!ATTLIST patent-literature  id ID          #IMPLIED >

<!--
  Sequence listing free text
  WIPO ST.25:
  "36. Where the sequence listing part of the description contains free text,
  any such free text shall be repeated in the main part of the description
  in the language thereof.
  It is recommended that the free text in the language of the main part of the
  description be put in a specific section of the description called "Sequence
  Listing Free Text".

  Recommended id = 'seqt'
-->

<!ELEMENT sequence-list-text (heading* , p+)++>

<!ATTLIST sequence-list-text  id ID          #IMPLIED >
<!--
-->
<!ELEMENT reference-to-deposited-biological-material (heading* , p+)++>

<!ATTLIST reference-to-deposited-biological-material  id ID          #IMPLIED >
```

```
<!--
-->
<!ELEMENT reference-signs-list (heading* , p+)+>

<!ATTLIST reference-signs-list id ID #IMPLIED >

<!--
Article 33(4): "For purposes of the international preliminary examination,
a claimed invention shall be considered industrially applicable if, according to
its nature, it can be made or used (in the technological sense) in any kind of
industry.

Recommended id = 'inap'
-->
<!ELEMENT industrial-applicability (heading* , p+)+>

<!ATTLIST industrial-applicability id ID #IMPLIED >

<!--
PCT Rule 5.1(a)(vi): "The description shall...indicate explicitly, when it is not
obvious from the description or nature of the invention, the way in which the
invention is capable of exploitation in industry and the way in which it can be
made and used..."

Recommended id = 'mode'
-->
<!ELEMENT mode-for-invention (heading* , p+)+>

<!ATTLIST mode-for-invention id ID #IMPLIED
mode-num CDATA #IMPLIED >

<!--
The best mode contemplated by the applicant for carrying out the invention
claimed.

Recommended id = 'bmod'
-->
<!ELEMENT best-mode (heading* , p+)+>

<!ATTLIST best-mode id ID #IMPLIED >

<!--
-->
<!ELEMENT description-of-embodiments (embodiments-example | (heading* , p*)+)+>

<!ATTLIST description-of-embodiments id ID #IMPLIED >

<!--
-->
<!ELEMENT embodiments-example (heading* , p+)+>

<!ATTLIST embodiments-example id ID #IMPLIED
ex-num CDATA #IMPLIED >

<!--
Brief description of the drawings (Rule 5.1(a)(iv))

Recommended id = 'desd'
-->
<!ELEMENT description-of-drawings (heading* , p+)+>

<!ATTLIST description-of-drawings id ID #IMPLIED >

<!--
-->
<!ELEMENT summary-of-invention (tech-problem | tech-solution | advantageous-effects
| (heading* , p*)+)+>

<!ATTLIST summary-of-invention id ID #IMPLIED >
```



```
<!--
Disclosure of the invention with sub-headings:
  technical problem;
  technical solution;
  advantageous effects (of the invention);

Recommended id = 'disc'

-->
<!ELEMENT disclosure ((tech-problem | tech-solution | advantageous-effects)* |
(heading* , p+)+)>

<!ATTLIST disclosure id ID #IMPLIED >

<!--
  advantageous effects of the invention (PCT Rule 5.1(a)(iii))

Recommended id = 'adve'

-->
<!ELEMENT advantageous-effects (heading* , p+)+>

<!ATTLIST advantageous-effects id ID #IMPLIED >

<!--
  The solution to the problem that the invention purports to solve.
  (PCT Rule 5.1(a)(iii))

-->
<!ELEMENT tech-solution (heading* , p+)+>

<!ATTLIST tech-solution id ID #IMPLIED >

<!--
  The problem the invention purports to solve (Rule 5.1(a)(iii))

-->
<!ELEMENT tech-problem (heading* , p+)+>

<!ATTLIST tech-problem id ID #IMPLIED >

<!--
  Background art, background of the invention.

Recommended id = 'bart'

-->
<!ELEMENT background-art (heading* , p+)+>

<!ATTLIST background-art id ID #IMPLIED >

<!--
  PCT Rule 5.1:
  (a) The description shall first state the title of the invention as appearing
  in the request and shall:
  (i) specify the technical field to which the invention relates

-->
<!ELEMENT technical-field (heading* , p+)+>

<!ATTLIST technical-field id ID #IMPLIED >

<!--
  Heading text; see Rule 5. Recommended id = h0001, h0002, etc.

-->
<!ELEMENT heading (#PCDATA | b | i | u | o | sup | sub | smallcaps)*>

<!ATTLIST heading level (1 | 2 | 3 ) #IMPLIED
```

```
id ID #IMPLIED >

<!--
Title of the Invention:
  (INID 54, ST.32:B540/B542)

Preferably two to seven words when in English or translated into English and
precise. (Rule 4.3)

Recommended id = 'invt'

-->
<!ELEMENT invention-title (#PCDATA | b | i | u | o | sup | sub)*>

<!ATTLIST invention-title id ID #IMPLIED
                           lang CDATA #IMPLIED >

<!--
Front page of the published application

-->
<!ELEMENT front-page (doc-page+)>

<!ATTLIST front-page id ID #IMPLIED
                     lang CDATA #IMPLIED
                     status CDATA #IMPLIED >

<!--
Note: the abstract figure (if there is one) may be the actual image,
e.g.
  <image id='abfig1' file='al.tif' he='99' wi='74' img-format='tiff'></image>
or simply a reference to the figure chosen by the applicant
or the office;

Attribute fig-status values:(taken from form PCT/ISA/210)
  1 = as suggested by the applicant
  2 = because the applicant failed to suggest a figure
  3 = because this figure better characterises the invention
  4 = none of the figures

-->
<!ELEMENT abstract-figure ((fig-number+) | img+)>

<!ATTLIST abstract-figure id ID #IMPLIED
                          fig-status (1 | 2 | 3 | 4) '1'
                          orientation CDATA #IMPLIED
                          lang CDATA #IMPLIED >

<!--
ABSTRACT: PCT Rule 8
  (INID 57, ST.32:B570)
A concise summary of the disclosure, 50-150 words.

Recommended id = 'abst' or 'abst0001' for multiple abstracts

-->
<!ELEMENT abstract (doc-page+ | (abst-problem , abst-solution) | p+)>

<!ATTLIST abstract id ID #IMPLIED
                   lang CDATA #IMPLIED
                   status CDATA #IMPLIED >

<!--
The solution to the alleged problem that the invention purports to solve.

Recommended id = 'abss'

-->
<!ELEMENT abst-solution (p+)>
```

```
<!ATTLIST abst-solution id ID #IMPLIED >

<!--
  The alleged problem that the invention purports to solve

  Recommended id = 'absp'

-->
<!ELEMENT abst-problem (p+)>

<!ATTLIST abst-problem id ID #IMPLIED >

<!--
  Paragraph

  Recommended id = p0001, p0002, etc. num = 0001, 0002, etc.

  Note: paragraphs may occur in sections other than the description and at
  different times eg. for the abstract, in this case use for example "p0001a";
  amended claims: "p0001ac", etc.

-->
<!ELEMENT p (#PCDATA | b | i | u | o | sup | sub | smallcaps | br | pre | dl | ul |
ol | crossref | figref | patcit | nplcit | bio-deposit | img | chemistry | maths |
tables | table-external-doc)*>

<!ATTLIST p id ID #IMPLIED
          num CDATA #REQUIRED >

<!--
  References a stand-alone table authored with the table-external DTD.

-->
<!ELEMENT table-external-doc (#PCDATA)>

<!ATTLIST table-external-doc id ID #IMPLIED
                             file CDATA #REQUIRED
                             lang CDATA #IMPLIED
                             carriers (internal-electronic |
                                       external-electronic |
                                       paper ) #IMPLIED
                             external-type (math |
                                             chemistry |
                                             program-listing |
                                             other ) #IMPLIED
                             status CDATA #IMPLIED >

<!--
  TABLES
  This is image data or coded according to OASIS Exchange model with modified cell
  'entry' content.

  Recommended id = tabl0001, tabl0002, etc.

-->
<!ELEMENT tables (img | table)>

<!ATTLIST tables id ID #IMPLIED
                 num CDATA #REQUIRED >

<!--
  Definition list

  Recommended id = dlis0001, dlis0002, etc.

-->
<!ELEMENT dl (dt , dd)+>

<!ATTLIST dl tsize CDATA #IMPLIED
            compact (compact ) #IMPLIED
```

```

        id      ID      #IMPLIED >

<!--
  Term to be defined

  Recommended id = dtrm0001, dtrm0002, etc.

-->
<!ELEMENT dt (#PCDATA | b | i | u | o | sup | sub | smallcaps)*>

<!ATTLIST dt  id ID      #IMPLIED >

<!--
  Unordered Lists
  list-style may be empty for lists with no bullet or other symbol default
  list-style is 'bullets'

  Recommended id = ulis0001, ulis0002, etc.

-->
<!ELEMENT ul (li+)>

<!ATTLIST ul  id      ID      #IMPLIED
             list-style (bullet | dash | none ) 'bullet'
             compact   (compact ) #IMPLIED >

<!--
  List item

  Recommended id = list0001, list0002, etc.

-->
<!ELEMENT li (#PCDATA | b | i | u | o | sup | sub | smallcaps | br | pre | patcit |
nplcit | bio-deposit | crossref | figref | img | dl | ul | ol | chemistry |
maths)*>

<!ATTLIST li  id  ID      #IMPLIED
             num CDATA #IMPLIED >

<!--
  MATHEMATICS
  This is image data or coded according to mathml, version 2

  Recommended id = math0001, math0002, etc.

-->
<!ELEMENT maths (img | (math , img?))>

<!ATTLIST maths  id  ID      #IMPLIED
                num CDATA #REQUIRED >

<!--
  Chemistry
  Chemical formulae, ring structures, Markush structures, etc.

  For now treat as image data.
  Depending on industry support we may use, e.g., chemML, CML later

  Recommended id = chem0001, chem0002, etc

-->
<!ELEMENT chemistry (img | (chem , img?))>

<!ATTLIST chemistry  id  ID      #IMPLIED
                    num CDATA #REQUIRED >

<!--
  This is a pointer to an external DTD for chemical markup - to be determined.
  For EPO probably CML; http://www.xml-cml.org/

```

```

-->
<!ELEMENT chem EMPTY>

<!ATTLIST chem  id          ID          #IMPLIED
                file        CDATA      #REQUIRED
                chem-type   CDATA      #IMPLIED >

<!--
Ordered Lists:
attribute 'ol-style'

Recommended use:
  1  arabic numbers      1, 2, 3, ...
  a  lower alpha         a, b, c, ...
  A  upper alpha         A, B, C, ...
  i  lower roman         i, ii, iii, ...
  I  upper roman         I, II, III, ...

-->
<!ELEMENT ol (li+)>

<!ATTLIST ol  id          ID          #IMPLIED
              compact     (compact ) #IMPLIED
              ol-style    CDATA      #IMPLIED >

<!--
Image data
Image is used for any kind of image: art work, figures, complex work units
(math, tables, chemistry), etc.

Recommended:
  id          = i0001, i0002, etc.
  he, wi      = "11" - millimeters - height, width;
  file        = file name,location; label - not used;
  alt         = alternate text if image not shown;
  img-content = drawing is the default;
  img-format  = common will be tiff, st33 and st35 in for backward compatibilty
               and, later, publication.
  orientation = orientation of the image (portrait | landscape).
               Default is portrait
  inline      = (yes | no).
               Whether the image is to be presented inline or separated by line
               breaks. Default is no.

-->
<!ELEMENT img EMPTY>

<!ATTLIST img  id          ID          #IMPLIED
              he          CDATA      #REQUIRED
              wi          CDATA      #REQUIRED
              file        CDATA      #REQUIRED
              alt         CDATA      #IMPLIED
              img-content (drawing |
                          photograph |
                          character |
                          dna |
                          undefined |
                          chem |
                          table |
                          math |
                          program-listing |
                          flowchart |
                          graph ) 'drawing'
              img-format  (jpg | tif | st33 | st35 ) #REQUIRED
              orientation (portrait | landscape ) 'portrait'
              inline      (yes | no ) 'no' >

<!--
A reference to a figure;
e.g., "...as shown in <figref idref='f0001'>figure<b>1</b></figref>..."

```

```

-->
<!ELEMENT figref (#PCDATA | b | i | u | o | sup | sub | smallcaps)*>

<!ATTLIST figref  idref IDREFS  #IMPLIED
                 num   CDATA    #IMPLIED >

<!--
  Cross reference to any other element with an identifier (id)
-->

-->
<!ELEMENT crossref (#PCDATA | b | i | u | o | sup | sub | smallcaps)*>

<!ATTLIST crossref  idref IDREF  #REQUIRED >

<!--
  Biological deposit citation (US EFS: biological-deposit)
  (INID 83, ST.32:B830)
  According to PCT Rule 13bis, EPC Rule 28
  This covers all bio data references long and short within the description and/or
  claims

  Recommended id = biod0001, biod0002, etc.
-->

-->
<!ELEMENT bio-deposit (depository , bio-accno , date? , term? , dtext?)>

<!ATTLIST bio-deposit  id   ID      #IMPLIED
                      num  CDATA   #REQUIRED
                      url  CDATA   #IMPLIED
                      dnum CDATA   #IMPLIED >

<!--
  Non-Patent Literature (NPL) CITation;

  Notes:
  This can be free text data without any structure (#PCDATA) which is NOT
  recommended
  or it can be highly structured data which is marked up according to ST.14 and
  ISO 690 layout;

  This part of the DTD has used many different sources for element names and DTD
  structure and reference:
  AACR2 / MARC
  ISO 12083 - Electronic manuscript prep. and markup. DTD
  Association of American Publishers (AAP) Z39.59 DTD
  European Working Group for SGML (EWS) MAJOUR DTD
  SuperJournal Full Article DTD
  www.superjournal.ac.uk/sj
  Elsevier DTD
  Medline DTD (NLM)

  Attributes (recommended):
  id - ncit0001, ncit0002, etc
  num - 0001, 0002
  npltype - The TYPE of citation is office specific (recommended)::
    A - Abstract citation of no specific kind
    B - Book citation
    I - Biological abstract citation
    C - Chemical abstracts citation
    E - Database citation
    D - Derwent citation
    P - Patent cited within NPL group
    J - Patent Abstracts of Japan citation (REC 067)
    S - Serial / Journal / Periodical citation
    W - World Wide Web / Internet search citation
  medium - the type of medium
    e.g., CD (CD-ROM), MT (Magnetic Tape), DISK, ONLINE
  file - file name on local systems eg. XP number in EPO
  url - where possible give full web link to document

```

```
-->
<!ELEMENT nplcit ((text | article | book | online | othercit) , rel-passage*)>

<!ATTLIST nplcit  id          ID          #IMPLIED
                  num         CDATA       #IMPLIED
                  lang        CDATA       #IMPLIED
                  file         CDATA       #IMPLIED
                  npl-type     CDATA       #IMPLIED
                  medium       CDATA       #IMPLIED
                  url           CDATA       #IMPLIED >

<!--
  Reference number (general); for the EPO this is the XP number
-->

<!ELEMENT refno (#PCDATA)>

<!ATTLIST refno  id ID #IMPLIED >

<!--
  Classification code; e.g., ipc, dewey etc.
-->

<!ELEMENT class (#PCDATA)>

<!ATTLIST class  class-type CDATA #IMPLIED >

<!--
  Subordinate responsibility; e.g., editor, translator, etc.
-->

<!ELEMENT subname (%name_group; | addressbook)>

<!ATTLIST subname  subname-type (editor | translator | other-subname-type )
'editor' >

<!--
  Author

  Prime responsibility for the work
  there is no distinguishing between personal and corporate authors
  <author> followed by name or addressbook information
  use the ID attribute if, for example, there is a need to distinguish between
  multiple authors.
  Can also include affiliation details

  Recommended id = auth0001, auth0002, etc.
-->

<!ELEMENT author (%name_group; | addressbook)>

<!ATTLIST author  id ID #IMPLIED >

<!--
  ADDRESSBOOK GROUP:
  Holds name and contact information for individuals/organizations

  The LANG attribute is REQUIRED for certain document types,
  e.g., the JPO PCT Request where names and addresses may be repeated in two
  different languages. If no structure possible use text.
-->

<!ELEMENT addressbook ((%name_group; , address , phone* , fax* , email* , url* ,
ead* , dtext?) | text)>

<!ATTLIST addressbook  id          ID          #IMPLIED
                      lang        CDATA       #IMPLIED >

<!--
```

```

Email address

Attribute:
    email-purpose    reason for which email address is included:
informal            for informal contact only
general             for any type of communication
confirmation        any type of communication, but formal messages followed up
                    by conventional mailing (to the extent offered)
main                where applicant desires this address to be used as primary
                    means of contact as a replacement of the use of conventional
                    post (to the extent that an Office offers this)
                    the default value depends on e-mail policies of the relevant Office.
                    For PCT purposes as at 1 July 2008, no attribute being included is
                    equivalent to 'informal'

-->
<!ELEMENT email (#PCDATA)>

<!ATTLIST email    email-purpose    (informal | general | advance | main ) #IMPLIED >

<!--
PATENT CITATIONS:
(ST.32:B561)
Patent Citation within abstract, description or claims.
For patent citations within Search Report see Search Report DTD

Notes:
Tags arranged according to WIPO ST.14 order.
This can be free text data without any structure (text).

Example:
<patcit id='pcit0001' dnum='US4793675A' dnum-type='publication number'>
  <document-id>
    <country>US</country>
    <doc-number>4793675</doc-number>
    <kind>A</kind>
    <name>Handa</name>
    <date>19881227</date>
  </document-id>
</patcit>

Note:
It is NOT expected that the applicant will create the tagged data
- it could be generated from a 'pull down' data entry form
or generated from internal SR databases

Attributes (recommended):
id    - pcit0001, pcit0002, etc.
num   - 0001, 0002, etc.
dnum  - use full number as one string, eg, "US5401234A";
url   - where possible give full web link to patent
file  - file name eg. if stored on local systems
dnum-type - type of document number
        (e.g., application number, publication number)

-->
<!ELEMENT patcit (text | (document-id , rel-passage*))>

<!ATTLIST patcit  id          ID          #IMPLIED
                  num         CDATA       #IMPLIED
                  dnum        CDATA       #IMPLIED
                  dnum-type   CDATA       #IMPLIED
                  file        CDATA       #IMPLIED
                  url          CDATA       #IMPLIED >

<!--
Document identification refers to patents (and patent applications) only.
See WIPO ST.14

-->

```



```
<!ELEMENT document-id (country , doc-number , kind? , name? , date?)>

<!ATTLIST document-id lang CDATA #IMPLIED >

<!--
Name:
If no distinction or detail can be given.
Also to be used for: personal (natural person) and corporate (legal entity) names
-->
<!ELEMENT name (#PCDATA)>

<!ATTLIST name name-type (legal | natural ) #IMPLIED >

<!--
This element is one method to identify content consisting of text objects that
require preservation (pre) of their whitespace in order to preserve internal
logical relationships.
(e.g., sequence listing fragments, computer program listings)
-->
<!ELEMENT pre (#PCDATA)>

<!ATTLIST pre id ID #IMPLIED
             xml:space (preserve | default ) #IMPLIED
             listing-type (sequence | program-listing | other ) #REQUIRED
>

<!--
Underscore: style - single is default
-->
<!ELEMENT u (#PCDATA | b | i | smallcaps | sup | sub)*>

<!ATTLIST u style (single | double | dash | dots ) 'single' >

<!--
Overscore: style - single is default
-->
<!ELEMENT o (#PCDATA | b | i | smallcaps | sup | sub)*>

<!ATTLIST o style (single |
                 double |
                 dash |
                 dots |
                 leftarrow |
                 rightarrow |
                 leftrightarrow ) 'single' >

<!--
doc-page - DOCUMENT or PAGE

This is primarily to be used when data for the whole or major sections of an
application are in image format OR other formats such as pdf.

Page range attributes are given when required
pp - page range
ppf - first page
ppl - last page (for pdf).
The 'img' may also be used for complete pages, e.g. in drawings

Recommended id = docp0001, docp0002, etc.
Attributes "he" and "wi" mean height and width.

-->
<!ELEMENT doc-page EMPTY>

<!ATTLIST doc-page id ID #IMPLIED
```

```

        he          CDATA #REQUIRED
        wi          CDATA #REQUIRED
        type        (jpg | pdf | tif ) #REQUIRED
        alt         CDATA #IMPLIED
        pp          CDATA #IMPLIED
        ppf         CDATA #IMPLIED
        ppl         CDATA #IMPLIED
        file        CDATA #REQUIRED
        ocr         CDATA #IMPLIED
        color       (color | bw ) #IMPLIED
        orientation (portrait | landscape ) 'portrait' >
<!--
    information for chapter II demand at IB
-->
<!ELEMENT wo-demand-info (ipea? , received-at-ipea? , elected-office? , later-
election? , receipt-after-19month? , considered-not-made? , withdrawn? , iper-
status* , completion-date?)>

<!--
    International Preliminary Examination Authority
-->
<!ELEMENT ipea (country)>

<!--
    Date of receipt by International Preliminary Examination Authority
-->
<!ELEMENT received-at-ipea (date)>

<!ELEMENT elected-office (country* , (region , country+)*)>

<!ELEMENT completion-date (date)>

<!--
    Signatories
-->
<!ELEMENT signatories (signatory+)>

<!--
    PCT/RO/101 Box No. X:
    The signature must be that of the applicant (if there are several applicants, all
    must sign); however, the signature may be that of the agent, or the common
    representative, where a separate power of attorney appointing the agent or the
    common representative, respectively, or a copy of a general power of attorney is
    already in possession of the receiving Office, is furnished...
    (PCT Rules 4.1(d), 4.15, and 90)

    Indicate the capacity of the signer with 'signatory-capacity'
-->
<!ELEMENT signatory (%name_group; , address? , electronic-signature , signatory-
capacity?)>

<!ATTLIST signatory
        id ID #IMPLIED>

<!--
    The capacity in which the person signs
-->
```

```
<!ELEMENT signatory-capacity (#PCDATA)>

<!--
  A PKI / PKCS #7 digital signature data type
-->
<!ELEMENT enhanced-signature (pkcs7)>

<!--
  PKCS7 digital signature
-->
<!ELEMENT pkcs7 EMPTY>

<!--
  A non-PKI electronic signature
-->
<!ELEMENT basic-signature (fax-image | text-string | click-wrap)>

<!--
  A simple 'signature';
  e.g., clicking a button labeled 'accept' or 'I agree'
-->
<!ELEMENT click-wrap EMPTY>

<!--
  A simple text string is to be used as the basic electronic signature;
  e.g., John Doe <text-string>/jd/</text-string>
-->
<!ELEMENT text-string (#PCDATA)>

<!--
  Figure of the drawings which should accompany the abstract
-->
<!ELEMENT figure-to-publish (fig-number+)>

<!--
  Possible sources: human-generated-classification,
  machine-propagated-classification, software-analysis-generated-classification
-->
<!ELEMENT classification-data-source (#PCDATA)>

<!--
  Possible status: original-classification, reclassified, various-classification,
  deleted-classification
-->
<!ELEMENT classification-status (#PCDATA)>

<!--

-->
<!ELEMENT generating-office (country)>
```

```
<!--  
  
-->  
<!ELEMENT action-date (date)>  
  
<!--  
    Possible values: invention, non-invention  
-->  
<!ELEMENT classification-value (#PCDATA)>  
  
<!--  
    Possible positions: first-symbol-position, later-symbol-position.  
-->  
<!ELEMENT symbol-position (#PCDATA)>  
  
<!--  
  
-->  
<!ELEMENT subgroup (#PCDATA)>  
  
<!--  
  
-->  
<!ELEMENT main-group (#PCDATA)>  
  
<!--  
  
-->  
<!ELEMENT subclass (#PCDATA)>  
  
<!--  
  
-->  
<!ELEMENT section (#PCDATA)>  
  
<!--  
    Levels: ipcr-advanced, ipcr-core  
-->  
<!ELEMENT classification-level (#PCDATA)>  
  
<!--  
  
-->  
<!ELEMENT ipc-version-indicator (date)>  
  
<!--  
    Unlinked indexing code.  
    (ST.32:B515/B525)  
-->  
<!ELEMENT unlinked-indexing-code (#PCDATA)>
```

```
<!--
  Linked indexing code.
  (ST.32:B514/B524)
-->
<!ELEMENT linked-indexing-code-group (main-linked-indexing-code , sub-linked-
indexing-code+)>

<!--
  Sub/further Linked Indexing Code.
-->
<!ELEMENT sub-linked-indexing-code (#PCDATA)>

<!--
  Main Linked Indexing Code.
-->
<!ELEMENT main-linked-indexing-code (#PCDATA)>

<!--
  Main classification.
  (ST.32:B511/B521)
-->
<!ELEMENT main-classification (#PCDATA)>

<!--
  Additional information.
  (ST.32:B513)
-->
<!ELEMENT additional-info (p+)>

<!--
  Declaration information including combined declaration
  and desgnated country
-->
<!ELEMENT declaration-info (declaration1? , declaration2? , declaration3? ,
declaration4? , declaration5? , combined-declaration? , designated-states-as-dec*)>

<!--
  Designated states for which indications are made: all except United States
-->
<!ELEMENT all-designations-except-us EMPTY>

<!--
  PCT/RO/101 Box No.VII :International Searching Authority
-->
<!ELEMENT search-authority (isa , earlier-search-request?, earlier-search-
authorization*)>

<!--
  Request to use results of earlier search; reference to that search
-->
<!ELEMENT earlier-search-request (document-id , substantially-equivalent? ,
earlier-search-documents?)+>
```

```
<!--
-->
<!ELEMENT substantially-equivalent EMPTY>

<!--
  International Search Authority; international search to be carried out by
-->
<!ELEMENT isa (country)>

<!--
  information of priority claims and priority document.
-->
<!ELEMENT wo-priority-info (priority-claim , priority-claim-ib-info? ,
incorporation-by-reference?)+>

<!--
  where an element of the international application referred to in Article
  11(1)(iii)(d) or (e) or a part of the description, claims or drawings referred to
  in Rule 20.5(a) is not otherwise contained in this international application but is
  completely contained in an earlier application whose priority is claimed on the
  date on which one or more elements referred to in Article 11(1)(iii) were first
  received by the receiving Office, that element or part is, subject to confirmation
  under Rule 20.6, incorporated by reference in this international application for
  the purposes of Rule 20.6
-->
<!ELEMENT incorporation-by-reference EMPTY>

<!--
  The priority document is attached to the application
-->
<!ELEMENT priority-doc-attached EMPTY>

<!--
  The receiving office is requested to prepare and transmit to the IB a certified
  copy of the earlier application
-->
<!ELEMENT priority-doc-requested EMPTY>

<!--
  This element is made when the receiving Office is requested to restore the
  right of priority.
-->
<!ELEMENT restore-rights EMPTY>

<!--
  Where the earlier application is an ARIPO application, indicate at least one
  country party to the PARIS convention for the protection of industrial property
  or one member of the WTO for which that earlier application was filed.
-->
<!ELEMENT office-of-filing ((region , country?) | country)>

<!--
  Additional priority claim information by IB
```

```
-->
<!ELEMENT priority-claim-ib-info (received-at-ib? , pct-rule17-1? , withdrawn? ,
considered-not-made?)>

<!--
  PCT/RO/101 Box No.V Designation Of States (PCT Rule 4.9)
-->
<!ELEMENT designation-of-states (designation-pct , (precautionary-designation-
statement? , exclusion-from-designation?))>

<!--
  Rule 4.9(b),(c)
  In addition to the designations made above [i.e, designation-of states], the
  applicant also makes under Rule 4.9(b) all other designations which would be
  permitted under the PCT except any designation(s) indicated in the Supplemental
  Box [i.e., exclusion-from-designation] as being excluded form the scope of this
  statement. The applicant declares that those additional designations are
  subject to confirmation and that any designation which is not confirmed before
  the expiration of 15 months from the priority date is to be regarded as
  withdrawn by the applicant at the expiration of that time limit.
-->
<!ELEMENT precautionary-designation-statement (#PCDATA)>

<!--
  State(s) excluded from precautionary designations under Rule 4.9(b)
-->
<!ELEMENT exclusion-from-designation (regional* , national?)>

<!--
  The Contracting States in which protection is desired
  (Rules 4.1(a)(iv) and 4.9(a))
-->
<!ELEMENT designation-pct (regional* , national? , new-designation-country*)>

<!--
  New PCT member country states (e.g., not yet published in WIPO ST.3, joined after
  PCT electronic filing software published)
-->
<!ELEMENT new-designation-country (#PCDATA)>

<!--
  The States for which protection or exclusion (depending upon context) is desired
-->
<!ELEMENT national (country , protection-request*)+>

<!--
  Regional (as opposed to national) protection being sought
-->
<!ELEMENT regional (region , (country , protection-request*)+ , any-other-state?)>

<!--
  Any other state in which protection is being sought
-->
```

```
<!-- any-other-state EMPTY -->

<!--
  Kind of protection; e.g., patent, utility model
-->
<!-- kind-of-protection (#PCDATA) -->

<!--
  PCT/RO/101 Box No.II, III and IV APPLICANTS, FURTHER APPLICANT(S)
  AND/OR (FURTHER) INVENTOR(S)AGENT OR COMMON REPRESENTATIVE;
  OR ADDRESS FOR CORRESPONDENCE (PCT Rule 4.5, 4.6, 4.7, 4.8)
  (INID 70, ST.32:B700)
-->
<!-- parties (applicants , inventors? , correspondence-address? , agents?) -->

<!--
  Information regarding Agents or common representatives
-->
<!-- agents (customer-number | agent+) -->

<!--
  Address used for general correspondence
-->
<!-- correspondence-address (customer-number | addressbook+) -->

<!--
  Customer number for agents by office
-->
<!-- customer-number (#PCDATA) -->

<!--
  Inventors information:
  If the US is designated, all of the inventors must also be named as applicants
  for purposes of that designation.
-->
<!-- inventors (inventor | deceased-inventor)+ -->

<!--
  Applicants information:
  At least one of the applicants named must be a resident or national of a PCT
  Contracting State for which the receiving Office acts.
-->
<!-- applicants (applicant+) -->

<!--
  information of changing of bibliographic data
-->
<!-- wo-bib-change-info (bib-change-request+) -->

<!--
  Bibliographic changing information
  address, name,nationality,residence
-->
```



```
<!ELEMENT bib-change-request (received-at-ib , previous-record)>

<!--
  Previous record of bibliographic in application before changing
-->
<!ELEMENT previous-record (applicant | inventor | deceased-inventor | agent)>

<!--
  Rule 4.6(c):
  "The request may, for different designated states, indicate different persons
  as inventors where, in this respect, the requirements of the national laws of
  the designated States are not the same. In such a case, the request shall
  contain a separate statement for each designated State or group of States in
  which a particular person, or the same person, is to be considered the
  inventor, or in which particular persons, or the same persons, are to be
  considered the inventors."
-->
<!ELEMENT designated-states-as-inventor (country* , (region , country+)*)>

<!--
  Country of residence
-->
<!ELEMENT residence (country)>

<!--
  Country of nationality
-->
<!ELEMENT nationality (country)>

<!--
  WIPO amendment information:
  art 19 amendment, date of receipt at IB
-->
<!ELEMENT wo-amendment-info (received-at-ib)>

<!--
  WIPO application information:
  received-at-ib : date of receipt of record copy by International Bureau
-->
<!ELEMENT wo-application-info (date-of-earliest-priority? , received-at-ib? ,
considered-not-made? , withdrawn?)>

<!--
  Where the international application claims the priority of several earlier
  applications, the filing date of the earliest application whose priority is
  claimed must be indicated as the priority date.
-->
<!ELEMENT date-of-earliest-priority (date)>

<!--
  Demand withdrawn by a notice from applicant
  (PCT Article 37; PCT Rule 90bis.4)
-->
<!ELEMENT withdrawn (date)>
```

```
<!--
  Declaration by the receiving office or IB that priority claim is considered,
  for the purposes of the procedure under the Treaty not to have been made
-->
<!ELEMENT considered-not-made (date , made-by?)>

<!ELEMENT made-by (country* , (region , country+)*>

<!--
  WIPO publication information:
-->
<!ELEMENT wo-publication-info (wo-correction* , wo-bio-material-after-pub? , isr-
status* , pct-pub-info* , wo-pubnum?)>
<!ELEMENT wo-pubnum (#PCDATA)>

<!--
  PCT published pamphlet information
-->
<!ELEMENT pct-pub-info (wo-published-text , pct-art64*)>

<!--
  published text in PCT pamphlet front page.
-->
<!ELEMENT wo-published-text (wo-text-letter-code+)>
<!ELEMENT wo-text-letter-code (#PCDATA)>

<!--
  PCT Article 64: Reservations
-->
<!ELEMENT pct-art64 (date? , document-id?)>

<!--
  a reference to deposited biological material that was received by IB
  after completion of technical preparations for international publication
-->
<!ELEMENT wo-bio-material-after-pub (received-at-ib , relevant-date?)>

<!--
  Relevant date
-->
<!ELEMENT relevant-date (date)>

<!--
  International Bureau receipt date
-->
<!ELEMENT received-at-ib (date)>

<!--
  WO Patent correction information.
```

```
-->
<!ELEMENT wo-correction (document-id? , type-of-correction? , wo-repub-code , wo-
pubnum? , wo-dtext*)>

<!ELEMENT wo-repub-code (#PCDATA)>

<!--
  Type of correction.
  (ST.32:B667)
-->
-->
<!ELEMENT type-of-correction (#PCDATA)>

<!--
  indications relate to the bio-deposit in the application body
-->
-->
<!ELEMENT indications (para-number , (bio-deposit , additional-indication? , (all-
designations | designated-states) , separate-indications?))>

<!--
  Separate furnishing of indications
-->
-->
<!ELEMENT separate-indications (#PCDATA)>

<!--
  Additional indication information for the deposit
-->
-->
<!ELEMENT additional-indication (#PCDATA)>

<!--
  Indications relate to the bio-deposit in the application body at paragraph number
-->
-->
<!ELEMENT para-number (#PCDATA)>

<!--
  Applicant's or agent's file reference, if desired, 12 characters maximum
-->
-->
<!ELEMENT file-reference-id (#PCDATA)>

<!--
  Indication of specific Contracting States in or for which the applicant is
  seeking protection for his invention
  (Rule 4.9(a))
-->
-->
<!ELEMENT designated-states (country* , (region , country+)*)>

<!--
  The region for which protection or exclusion (depending upon context) is desired.
-->
-->
<!ELEMENT region (country)>

<!--
  All designations permitted by the Treaty are made (Rule 4.9(b))
-->
```

```
-->
<!ELEMENT all-designations EMPTY>

<!--
  Method by which prior art was disclosed to the public
-->
<!ELEMENT method-of-disclosure (international-exhibition | publication | abuse |
other)>

<!--
  Other method by which prior art was disclosed to the public
-->
<!ELEMENT other (#PCDATA)>

<!--
  Exceptions to lack of novelty resulting from abuse;
  Rule 51bis.1(a)(v)
-->
<!ELEMENT abuse (#PCDATA)>

<!--
  A publication was used as the method of disclosure
-->
<!ELEMENT publication (#PCDATA)>

<!--
  An international exhibition was used as the method of disclosure
-->
<!ELEMENT international-exhibition (#PCDATA)>

<!--
  Title of what is being disclosed under PCT Rule 51bis.1(a)(v)
-->
<!ELEMENT title-of-disclosure (#PCDATA)>

<!--
  Document (e.g., XML) containing information relating to
  a priority claim considered not made.
-->
<!ELEMENT priority-claim-considered-not-made-doc (#PCDATA)>

<!--
  Document (e.g., XML) containing information relating to
  PCT Rule 91-1f.
-->
<!ELEMENT pct-rule91-1f-doc (#PCDATA)>

<!--
  A document (e.g., XML) containing information relating to
  article 17.2a.
```

```
-->
<!ELEMENT art17.2a-doc (#PCDATA)>

<!--
  Statement concerning amendments (PCT Article 19.1, PCT Rule 46.4)
-->
<!ELEMENT statement (#PCDATA | b | i | u | o | sup | sub)*>

<!--
  The text of the claim; also used for for sub-para indentation
-->
<!ELEMENT claim-text (#PCDATA | claim-text | claim-ref | b | i | u | o | sup | sub
| smallcaps | br | pre | crossref | figref | img | chemistry | maths | tables)*>

<!--
  PCT/RO/101 Box IX: the number of the figure which should accompany the abstract.
  (ST.32:B598)
-->
<!ELEMENT fig-number (#PCDATA)>

<!--
  Definition description
-->
<!ELEMENT dd (#PCDATA | b | i | u | o | sup | sub | smallcaps | br | pre | patcit |
nplcit | bio-deposit | crossref | figref | img | ul | ol | chemistry | maths)*>

<!--
  Identifies the period of time during which the depository must be able to furnish
  samples of the biological material.
-->
<!ELEMENT term (#PCDATA)>

<!--
  Biological accession number:
  (ST.32:B831)
  The identification assigned to the biological material by the depository
-->
<!ELEMENT bio-accno (#PCDATA)>

<!--
  Information regarding the facility storing the biological deposit.
  (ST.32:B832)
-->
<!ELEMENT depository (#PCDATA | address)*>

<!--
  Other citations - free form
-->
<!ELEMENT othercit (#PCDATA | b | i | u | o | sup | sub)*>

<!--
  Online citation
  Revised according to ISO-690-2 - Electronic documents and parts thereof.
-->
```

Please refer to this standard for definitions and examples.
See: <http://www.nlc-bnc.ca/iso/tc46sc9/standard/690-2e.htm#Contents>
The tagging in fact is a mixture of article and book tags together with
specific electronic source tags.
'Online' is taken to mean any kind of electronic documentation:
databases, internet, CD-Roms, DVD, email, etc

EXAMPLES ;

Kirk-Othmer Encyclopedia of Chemical Technology [online].
3rd ed. New York : John Wiley, 1984 [cited 3 January 1990].
Available from: DIALOG Information Services, Palo Alto (Calif.).

```
<nplcit id='ncit1' num='0001' type='E' medium='online'>
  <online>
    <online-title>Kirk-Othmer Encyclopedia of Chemical Technology
    </online-title>
    <edition>3rd ed.</edition>
    <imprint>
      <address>
        <text>New York</text>
      </address>
      <name>John Wiley</name>
      <pubdate>19840000</pubdate>
    </imprint>
    <avail>dialog information services, palo alto (calif.).</avail>
    <datecit>
      <date>19900103</date>
    </datecit>
  </online>
</nplcit>
```

* Article on Internet:

Clark, Carol. On the Threshold of a Brave New World.
In Blueprint of the Body [online].
CNN.com, 2000. [cited 24 August 2000;10:25 EST]. In-depth specials.
Available from: [<http://www.cnn.com/SPECIALS/2000/genome/story/overview/>]

```
<nplcit id='ncit1' num='0002' type='E' medium='online'>
  <online>
    <author>
      <name>Clark, Carol</name>
    </author>
    <online-title>On the Threshold of a Brave New World</online-title>
    <imprint>
      <name>CNN.com, 2000</name>
    </imprint>
    <series>
      <text>In-depth specials</text>
    </series>
    <avail>http://www.cnn.com/SPECIALS/2000/genome/story/</avail>
    <datecit>
      <date>20000824; 10:25 est</date>
    </datecit>
  </online>
</nplcit>
```

* Personal communication (e-mail)

Thacker, Jane. MPEG-21 project stream on digital item identification [online].
Message to: [iso.tc46.sc9@nlc-bnc.ca]. 3 October 2000; 13:33 EST [cited 6
October 2000; 13:10 EST].
Message-ID: [002f01c02d60\$051a64a0\$22a2580c@vaio]. Personal communication.

```
<nplcit id='ncit3' num='0003' type='E' medium='online'>
  <online>
    <author>
      <name>Thacker, Jane</name>
    </author>
    <online-title>MPEG-21 project stream on digital item identification
```

```
</online-title>
<subname>
  <name>Message to: <iso.tc46.sc9@nlc-bnc.ca></name>
</subname>
<pubdate>3 October 2000; 13:33 EST</pubdate>
<notes>Personal communication</notes>
<avail>Message-ID: <002f01c02d60$051a64a0$22a2580c@vaio></avail>
<datecit><date>6 october 2000; 13:10 EST</date></datecit>
</online>
</nplcit>

-->
<!ELEMENT online (text | (author* , online-title* , hosttitle? , subname* ,
edition? , (serial | book)? , imprint? , pubdate? , history? , series? , hostno? ,
location? , notes? , avail , class* , keyword* , cpyrt? , issn? , isbn? , datecit?
, srchterm* , srchdate? , refno* , vid? , ino? , doi? , absno?))>

<!--
  Date of search/retrieval  YYYYMMDD
-->
<!ELEMENT srchdate (date)>

<!--
  Search terms
-->
<!ELEMENT srchterm (#PCDATA)>

<!--
  Date cited - date on which the citation was cited.
  May be different from srchdate below
-->
<!ELEMENT datecit (date)>

<!--
  Availability and access - REQUIRED use for URL, online database, ftp address,
  email, etc.;
  e.g., Available from Internet: http://www.epoline.org
  Available from DIALOG Information Systems, Palo Alto (Calif.)
-->
<!ELEMENT avail (#PCDATA)>

<!--
  Numeration within host document
-->
<!ELEMENT hostno (#PCDATA)>

<!--
  History of the article (not serial)
-->
<!ELEMENT history (text | (received | accepted | revised | misc))>

<!--
  Miscellaneous information relating to the history of the article; see ISO 12083
-->
<!ELEMENT misc (#PCDATA | date)*>
```

```

<!--
  Date article was revised
-->
<!ELEMENT revised (date)>

<!--
  Date article was accepted
-->
<!ELEMENT accepted (date)>

<!--
  Date article was received
-->
<!ELEMENT received (date)>

<!--
  Title of the host document/database
-->
<!ELEMENT hosttitle (#PCDATA)>

<!--
  The title of the electronic resource
-->
<!ELEMENT online-title (#PCDATA)>

<!--
  Article citations within a 'host' document

  After patent citations the most common citations are articles within serials
  (periodicals, magazines), books and electronic (eg. internet) sources.
  This is a very complex and varied area to standardise. The tag set below is drawn
  from a number of sources as is the order of the tags (which in any case can be
  changed depending on the stylesheet used).;

  The order of tags is that of WIPO ST.14 / ISO 690 layout.
  DROP, J.G.  Integrated Circuit Personalization at the Module Level.  IBM Tech.
  Dis. Bull.  October 1974, Vol. 17, No. 5, p. 1344 and 1345.
  [XPnnnnnnnnnnn].

  <nplcit id='ncit1' num='0012' type='S' file='XP1234456'>
    <article>
      <author>
        <name>DROP, J.G.</name>
      </author>
      <atl>Integrated Circuit Personalization at the Module Level</atl>
      <serial>
        <sertitle>IBM Tech. Dis. Bull.</sertitle>
        <pubdate>19741000</pubdate>
        <vid>17</vid>
        <ino>5</ino>
      </serial>
      <location>
        <pp>1344 and 1345</pp>
      </location>
      <refno id='XP1'>XP1234456</refno>
    </article>
  </nplcit>

```

Note: it is NOT expected that the applicant will create the tagged data


```
- it can be generated from a 'pull down' data entry form (eg. in Word) or
generated from internal SR databases

-->
<!ELEMENT article (text | (author* , atl? , subname* , (serial | book) , absno? ,
location? , class* , keyword* , cpyrt? , artid? , refno*))>

<!--
Article unique ID - assigned by a publisher to an article
-->
<!ELEMENT artid (#PCDATA)>

<!--
Book citation
In the order specified by WIPO ST.14 and ISO 690 and AACR2 rules for layout

WALTON, Herrmann. Microwave quantum theory.
London : Sweet and Maxwell, 1973. ISBN 0123456789.
Vol.2, p. 138 to 192.

  <nplcit id='ncit12' num='0013' type='b'>
    <book>
      <author>
        <name>WALTON, Herrman</name>
      </author>
      <book-title>Microwave quantum theory</book-title>
      <imprint>
        <address>
          <text>London</text>
        </address>
        <name>Sweet and Maxwell</name>
        <pubdate>19730000</pubdate>
      </imprint>
      <location>
        <pp>138 to 192</pp>
      </location>
      <isbn>0-1234-568-9</isbn>
    </book>
  </nplcit>

-->
<!ELEMENT book (text | (author* , (book-title+ | conference) , (subtitle? ,
subname* , edition? , imprint? , descrip? , series? , absno? , location* , isbn* ,
pubid? , vid? , bookno? , notes? , class* , keyword* , cpyrt? , refno* , doi? ,
ino? , issn?)))>

<!--
Keyword; e.g., from a Thesaurus or class. scheme
(ST.32:B550)
-->
<!ELEMENT keyword (#PCDATA)>

<!--
Book number
-->
<!ELEMENT bookno (#PCDATA)>

<!--
Location within the cited work
-->
<!ELEMENT location (text | (serpart? , sersect? , chapter? , pp? , column? , para?
```

```
, line?))>

<!--
  Referenced line within cited work
-->
<!ELEMENT line (#PCDATA | linef | line1)*>

<!--
  Cited document line, last
-->
<!ELEMENT line1 (#PCDATA)>

<!--
  Cited document line, first
-->
<!ELEMENT linef (#PCDATA)>

<!--
  Referenced paragraph within cited work
-->
<!ELEMENT para (#PCDATA | paraf | paral)*>

<!--
  Cited paragraph, last
-->
<!ELEMENT paral (#PCDATA)>

<!--
  Cited paragraph, first
-->
<!ELEMENT paraf (#PCDATA)>

<!--
  Cited document column numbers
-->
<!ELEMENT column (#PCDATA | colf | coll)*>

<!--
  Cited document column, last
-->
<!ELEMENT coll (#PCDATA)>

<!--
  Cited document column, first
-->
<!ELEMENT colf (#PCDATA)>

<!--
  Cited document page numbers
-->
```

```
<!ELEMENT pp (#PCDATA | ppf | ppl)*>

<!--
  Cited document page, last
-->
<!ELEMENT ppl (#PCDATA)>

<!--
  Cited document page , first
-->
<!ELEMENT ppf (#PCDATA)>

<!--
  Chapter; e.g., in a book.  Example: Chapter 2
-->
<!ELEMENT chapter (#PCDATA)>

<!--
  Serial section
-->
<!ELEMENT sersect (#PCDATA)>

<!--
  Part within a serial
-->
<!ELEMENT serpart (#PCDATA)>

<!--
  Abstract number
-->
<!ELEMENT absno (#PCDATA)>

<!--
  Series statement
-->
<!ELEMENT series (text | (mst , msn? , issn?))>

<!--
  Monographic series number
-->
<!ELEMENT msn (#PCDATA)>

<!--
  Monographic series title
-->
<!ELEMENT mst (#PCDATA)>

<!--
  Edition statement
  (ST.32:B516)
-->
```

```
-->
<!ELEMENT edition (#PCDATA)>

<!--
  Book subtitle
-->
<!ELEMENT subtitle (#PCDATA)>

<!--
  CONFERENCE GROUP / CITATION
  There is no standard way of citing conference proceedings; date of the conf. may
  come before or after place, for example. The tags are specified in a set order
  where it is not possible or correct then simply use <text>
-->
<!ELEMENT conference (text | (conftitle , confdate? , confno? , confplace? ,
  confsponsor*))>

<!--

-->
<!ELEMENT confdate (date | (sdate , edate))>

<!--
  Conference sponsor
-->
<!ELEMENT confsponsor (#PCDATA | addressbook)*>

<!--
  Conference place
-->
<!ELEMENT confplace (#PCDATA | address)*>

<!--
  Conference number
-->
<!ELEMENT confno (#PCDATA)>

<!--
  Conference title
-->
<!ELEMENT conftitle (#PCDATA)>

<!--
  The title of the cited book
-->
<!ELEMENT book-title (#PCDATA)>

<!--
  Serial citation data:
  This describes the volume or issue as a whole and not a particular article within
  it.
-->
```

```
<!ELEMENT serial (sertitle , alttitle? , subname* , issue? , imprint? , pubdate? ,
descrip? , notes? , isbn? , issn? , pubid? , vid? , ino? , cpyrt? , doi?)>

<!--

-->
<!ELEMENT doi (#PCDATA)>

<!--
  Copyright info.  Copyright of publisher of serial
-->
<!ELEMENT cpyrt (#PCDATA)>

<!--
  Issue number
-->
<!ELEMENT ino (#PCDATA)>

<!--
  Volume id/number
-->
<!ELEMENT vid (#PCDATA)>

<!--
  Publisher's unique id
-->
<!ELEMENT pubid (#PCDATA)>

<!--
  International Standard Book Number
-->
<!ELEMENT isbn (#PCDATA)>

<!--
  International Standard Serial Number
-->
<!ELEMENT issn (#PCDATA)>

<!--
  Notes about the journal; e.g. Continues Journal of XYZ 1910-1998, published in
  French and English, etc.
-->
<!ELEMENT notes (#PCDATA)>

<!--
  Physical description - generally NOT used in citations in pats; e.g., v., 27cm
-->
<!ELEMENT descrip (#PCDATA)>

<!--
  Imprint:
```

```
Publication / creation data
Place of publication : publisher, date(s) of publication usually only date of
publication is used for journal citations

-->
<!ELEMENT imprint (text | (address? , name , pubdate*))>

<!--
  Publication date used in npl citations
-->
<!ELEMENT pubdate (#PCDATA | sdate | edate | time)*>

<!--
  Time; format HHMM
-->
<!ELEMENT time (#PCDATA)>

<!--
  End date used in pubdate
-->
<!ELEMENT edate (#PCDATA)>

<!--
  Start date used in pubdate
-->
<!ELEMENT sdate (#PCDATA)>

<!--
  Issue designation; e.g., Annual, 1971-, 1890-1972
-->
<!ELEMENT issue (#PCDATA)>

<!--
  Alternate title for serial; e.g. BMJ = British Medical Journal
-->
<!ELEMENT alttitle (#PCDATA)>

<!--
  Serial title
-->
<!ELEMENT sertitle (#PCDATA)>

<!--
  Article title
-->
<!ELEMENT at1 (#PCDATA)>

<!--
  Descriptive text
-->
<!ELEMENT dtext (#PCDATA)>
```

```
<!--  
  Universal Resource Locator; e.g. www.wipo.int  
-->  
<!ELEMENT url (#PCDATA)>  
  
<!--  
  Fax number  
-->  
<!ELEMENT fax (#PCDATA)>  
  
<!--  
  Telephone number  
-->  
<!ELEMENT phone (#PCDATA)>  
  
<!--  
  Electronic address use for other than email  
-->  
<!ELEMENT ead (#PCDATA)>  
  
<!--  
  Address components:  
  Address formats differ from country to country  
  If no structure possible use text  
-->  
<!ELEMENT address (%address_group;)>  
  
<!--  
  Postal code or zip code  
-->  
<!ELEMENT postcode (#PCDATA)>  
  
<!--  
  Region of country; e.g., state, province, etc.  
-->  
<!ELEMENT state (#PCDATA)>  
  
<!--  
  County, parish, department, etc (mainly UK, USA)  
-->  
<!ELEMENT county (#PCDATA)>  
  
<!--  
  City or town name  
-->  
<!ELEMENT city (#PCDATA)>  
  
<!--  
  Street may contain house number or name  
-->
```

```
<!ELEMENT street (#PCDATA)>

<!--
  Building information in address; e.g., Hoffman building
-->
<!ELEMENT building (#PCDATA)>

<!--
  Address floor; e.g., 10th
-->
<!ELEMENT address-floor (#PCDATA)>

<!--
  Address room; e.g., Room 55B
-->
<!ELEMENT room (#PCDATA)>

<!--
  Post Office Box number
-->
<!ELEMENT pobox (#PCDATA)>

<!--
  Organizational mail code
-->
<!ELEMENT mailcode (#PCDATA)>

<!--
  Address, fifth line
-->
<!ELEMENT address-5 (#PCDATA)>

<!--
  Address, fourth line
-->
<!ELEMENT address-4 (#PCDATA)>

<!--
  Address, third line
-->
<!ELEMENT address-3 (#PCDATA)>

<!--
  Address, second line
-->
<!ELEMENT address-2 (#PCDATA)>

<!--
  Address, first line
-->
```



```
<!ELEMENT address-1 (#PCDATA)>

<!--
  Registered number
-->
<!ELEMENT registered-number (#PCDATA)>

<!--
  Synonym
-->
<!ELEMENT synonym (#PCDATA)>

<!--
  Department, division, section, etc. name
-->
<!ELEMENT department (#PCDATA)>

<!--
  Organisation name or company name
-->
<!ELEMENT orgname (#PCDATA)>

<!--
  Role; e.g., President, Chairman, etc.
-->
<!ELEMENT role (#PCDATA)>

<!--
  SDOBI : Individual id
-->
<!ELEMENT iid (#PCDATA)>

<!--
  Name suffix (e.g., II, Jr., Dip., Ing., BA, etc.)
-->
<!ELEMENT suffix (#PCDATA)>

<!--
  Middle name(s) or initial(s)
-->
<!ELEMENT middle-name (#PCDATA)>

<!--
  First or given name(s), initial(s)
-->
<!ELEMENT first-name (#PCDATA)>

<!--
  Last, family, surname
-->
```

```
<!ELEMENT last-name (#PCDATA)>

<!--
  Title: e.g., Mr., Mrs., Dr. etc
-->
<!ELEMENT prefix (#PCDATA)>

<!--
  Relevant passage group within patent; most used in search reports
  - use text in abstract, description and claims
-->
<!ELEMENT rel-passage (text | (passage+ , (category , rel-claims?)*))>

<!--
  Relevant claims
-->
<!ELEMENT rel-claims (#PCDATA)>

<!--
  Category
  (ST.32:B563)
-->
<!ELEMENT category (#PCDATA)>

<!--
  Passage within the cited patent literature
-->
<!ELEMENT passage (#PCDATA)>

<!--
  Date: components of a date. Format: YYYYMMDD
-->
<!ELEMENT date (#PCDATA)>

<!--
  Document kind code; e.g., A1
  (INID 13, ST.32:B130)
-->
<!ELEMENT kind (#PCDATA)>

<!--
  The number of the referenced patent (or application) document
-->
<!ELEMENT doc-number (#PCDATA)>

<!--
  Country: use ST.3 country code; e.g. DE, FR, GB, NL, etc.
  Also includes EP, WO
-->
<!ELEMENT country (#PCDATA)>
```

```
<!--
  If no structure is possible, enter text (without markup)
-->
<!ELEMENT text (#PCDATA)>

<!--
  br - break, line break within a paragraph
-->
<!ELEMENT br EMPTY>

<!--
  Bold formatting for text
-->
<!ELEMENT b (#PCDATA | i | u | o | smallcaps | sup | sub)*>

<!--
  Italic formatting for text
-->
<!ELEMENT i (#PCDATA | b | u | o | smallcaps | sup | sub)*>

<!--
  Small capitals
-->
<!ELEMENT smallcaps (#PCDATA | b | u | i | o)*>

<!--
  Subscripted text
-->
<!ELEMENT sub (#PCDATA | b | u | i | o | sup2 | sub2)*>

<!--
  Superscripted text
-->
<!ELEMENT sup (#PCDATA | b | u | i | o | sup2 | sub2)*>

<!--
  Subscripted text
-->
<!ELEMENT sub2 (#PCDATA | b | u | i | o)*>

<!--
  Superscripted text
-->
<!ELEMENT sup2 (#PCDATA | b | u | i | o)*>

<!--
  Authorization to RO to transmit earlier search
-->
<!ELEMENT earlier-search-authorization (document-id )>
<!ATTLIST earlier-search-authorization request-ro-not-transmit
(yes |
```

no) #IMPLIED

applicant-authorizes-ro-transmit

(yes |

no) #IMPLIED >

5.8 Dépôt de modifications et, le cas échéant, de déclarations (articles 19 et 34.2)b)

```
<?xml version='1.0' encoding='UTF-8' ?>

<!ENTITY % name_group "((name | (prefix? , (last-name | orgname) , first-name? ,
middle-name? , suffix? , iid? , role? , orgname? , department? , synonym*)) ,
registered-number?)">

<!ENTITY % address_group "((address-1? , address-2? , address-3? , address-4? ,
address-5? , mailcode? , pobox? , room? , address-floor? , building? , street? ,
city? , county? , state? , postcode? , country) | text)">

<!ENTITY % amend_content "(invention-title | heading+ | p+ | doc-page+ | claim+ |
figure+)">

<!--
*****
* amendment-request v1.6      2017  JULY                               *
*****
* PUBLIC "-//WIPO//DTD AMENDMENT REQUEST 1.6/EN" "amendment-request-v1-6.dtd" *
*****
* https://www.wipo.int/pct-safe/en/resources/1.15/amendment-request-v1-6.dtd *
*****
* contacts:                                                            *
*   WIPO: Yuya USHIDA; yuya.ushida@wipo.int                            *
*****
* revision history                                                    *
*****
Asahi HASEBE incorporated changes from PFCs:
..changed version number from v1.5 to v1.6
..added an attribute "color" to "figure"
SY: 01/04/10 incorporated changes from PFC
..changed version number from v1.4 to v1.5
..changed value of attribute lang of amend-statement from '#REQUIRED' to
'#IMPLIED'(PFC09/006)
..changed value of attribute status of amend-statement from '#REQUIRED' to
'#IMPLIED'(PFC09/006)
MO: 01/01/09 incorporated changes from PFC
..changed version number from v1.3 to v1.4
..added element 'summary-of-invention' to description (PFC08/008)
..added element 'description-of-embodiments' to description (PFC08/008)
..added element 'reference-signs-list' to description (PFC08/008)
..added element 'reference-to-deposited-biological-material' to description
(PFC08/008)
..added element 'citation-list' to description (PFC08/008)
MO: 01/07/08 incorporated changes from PFCs:
..changed version number from v1.2 to v1.3
..added attribute 'email-purpose' to email (PFC08/006)
MO: 01/01/07 incorporated changes from PFCs:
..changed version number from v1.1 to v1.2
..implementation of PFC06/001
..added element 'sup' to u (PFC06/003)
..added element 'sup' to i (PFC06/003)
..added element 'sup' to b (PFC06/003)
..added element 'sub' to u (PFC06/003)
..added element 'sub' to i (PFC06/003)
..added element 'sub' to b (PFC06/003)
..added element 'o' to invention-title, b, i, sup, sup2, sub, sub2, heading, claim-
text,
  p, small-caps, dt, dd, li, crossref, figref, othercit, statement (PFC06/003)
..added element 'address-4' to address (PFC06/005)
..added element 'address-5' to address (PFC06/005)
HT: 14/12/04 incorporated changes from PFCs:
..changed element nplcit from '(text | (article , book , online , othercit)*)' to
'(text | article | book | online | othercit)'
..changed element othercit from '(#PCDATA)' to '(#PCDATA | b | i | u | sup | sub)*'
..changed element rel-passage from (text | (passage+ , category? , rel-claims?)) to
(text | (passage+ , category* , rel-claims*)+)
..changed attribute he, wi of doc-page, img from 'NMOKEN' to 'CDATA'
..changed value of attribute idref of crossref from 'CDATA' to 'IDREF'
```

```

..changed value of attribute tsize of dl from 'NMTOKEN' to 'CDATA'
..changed value of attribute num of patcit, nplcit from '#REQUIRED' to 'IMPLIED'
..changed value of attribute xml:space of pre from '#FIXED 'preserve'' to
'(preserve | default #IMPLIED)'
..changed value name of attribute listing-type of pre from 'software-code' to
'program-listing'
..added element 'pre' to claim-text, dd, li
..added attribute 'id' to addressbook
..added attribute 'chem-type' to chem
..added attribute 'claim-type' to claim, claims
..added attribute 'class-type' to class
..added attribute 'ocr' to doc-page
..added value 'other-subname-type' to attribute 'subname-type' of subname
..removed attribute 'lang', 'status', 'dtd-version' from chem
HT: 20/07/04 incorporated changes from PFCs:
..changed version number from v1.0 to v1.1
..changed element article, online, serial from 'subname?' to 'subname*'
..changed element chemistry from '(img)' to '(img|(chem,img?))'
..changed element maths from '(img|math)' to '(img|(math,img?))'
..changed element rel-passage from 'category?, rel-claims?' to 'category*, rel-
claims*'
..added element 'figref' to claim-text, dd, li
..added element 'b', 'i', 'u', 'sup', 'sub', 'smallcaps' to crossref
..added attribute 'num' to li
..added attribute 'subname-type' to subname
..added value 'chem', 'table', 'math', 'program-listing', 'flowchart' to attribute
img-content of img
..added value 'national-office', 'regional-office' to attribute produced-by of root
element
..removed attribute 'class-type' from nplcit
HT: 16/12/03 incorporated changes from PFCs:
..changed version number from v0.5 to v1.0
..added element 'pre' to p content model
..added element 'sup2' and 'sub2' to sup and sub
..added attribute 'lang' and 'class-type' to nplcit
..added attribute 'external-type' to table-external
..added attribute 'figure-labels' to figure
JD: 03/02/03 revised
..changed version number from v0.4 to v0.5
..added attribute 'file-reference-id' to root
..added attribute 'orientation' to img and doc-page
..added attribute 'inline' to img
..added attribute 'ol-style' to ol
..added attribute 'dnum-type' to patcit
..added TABLE-EXTERNAL to p content model
..added (last-name | orgname) choice to %name_group;
..made postcode optional within address
..removed element 'br' from b, i, smallcaps
2001/12/01
..released version number as v0.4
*****

*****
* SECTION I - DECLARATION, ENT. REFS, ISO sets, etc *
*****

-->
<!--
import character entity set. Download from:
http://pcteasy.wipo.int/efiling_standards/schemaDocs/wipo.ent

Note that nsgmls-based parsers (SP, Near and Far Designer, etc.)
may not be able to process this file for reasons described below
in MathML comments.
-->
<!--ENTITY % wipo PUBLIC "-//WIPO//ENTITIES WIPO 1.0//EN" "wipo.ent">
%wipo;-->

<!--
*****
* INCLUDE COMPONENT DTDS (MATHML, OASIS EXCHANGE TABLE MODEL *

```

```

*****
-->
<!-- DTD MathML2: maintained by W3C.  Download from:
      http://www.w3.org/TR/MathML2/DTD-MathML-20010221.zip

      If using nsgmls-based parser (SP, Near and Far Designer, etc.)
      uncomment 'mathml-charent-module' switch below or replace the
      referenced MathML2 DTD with the version downloadable from:
      http://www.w3.org/Math/DTD/dtd-sp.zip

      This notice copied from: http://www.w3.org/Math/DTD/

      "DTD for nsgmls
      Some systems (including the popular nsgmls parser) may not be able
      to process files using 'plane 1' characters which have Unicode
      numbers higher than #xFFFF. The versions of the DTD provided here
      incorporate the modifications mentioned above, but the high
      characters are replaced by the equivalent mchar construct
      <mchar name="..." /> this allows the DTD to be read and for MathML
      files to be validated using such systems."
-->

<!--ENTITY % mathml-charent.module "IGNORE" -->
<!--ENTITY % MATHML.prefixed "IGNORE">
<!--ENTITY % MATHML.xmlns "">

<!-- import MathML2 dtd -->
<!--ENTITY % mathml2 PUBLIC "-//W3C//DTD MathML 2.0//EN" "mathml2.dtd">
%mathml2;

<!-- DTD OASIS Open XML Exchange Table Model.
      Maintained by OASIS; download from:
      http://www.oasis-open.org/specs/soextblx.dtd
      Note that the FPI in soextblx.dtd refers to itself as 'calstblx'.
      That convention has been followed here.
-->

<!-- create content for title element in table -->
<!--ENTITY % title "<!--ELEMENT title (#PCDATA | b | i | u | sup | sub | smallcaps)* >
">
%title;

<!-- override OASIS Exchange <entry> model -->
<!--ENTITY % tbl.entry.mdl "(#PCDATA | b | i | u | sup | sub | smallcaps | br
| patcit | nplcit | bio-deposit | crossref | img
| dl | ul | ol | chemistry | maths)* ">

<!-- import OASIS Exchange model -->
<!--ENTITY % calstblx PUBLIC "-//OASIS//DTD XML Exchange Table Model 19990315//EN"
"soextblx.dtd">
%calstblx;

<!--
*****
* SECTION II - DTD *
*****
Attributes:
  amend-type      = type of amendment
  lang            = language of application - use ISO639 language code
  dtd-version     = dtd version number
  file           = filename of the whole application
  status         = status of the application; values: new = new application
  date-produced  = date this document was produced
  produced-by    = creator of this document
  file-reference-id = applicant's or agent's file reference, if any.
-->

<!--ELEMENT amendment-request ((amend-statement? , (amend-body | (delete-object |
(insert-before-object | insert-after-object | replace-object))+)) , remarks?)>

<!--ATTLIST amendment-request amend-type (pct-article-34 | pct-

```

```
article-19 ) #REQUIRED
                lang          CDATA #REQUIRED
                dtd-version   CDATA #IMPLIED
                file          CDATA #IMPLIED
                produced-by   (applicant |
                               RO |
                               ISA |
                               IPEA |
                               IB |
                               DO |
                               EO |
                               national-office |
                               regional-office ) #REQUIRED
                date-produced CDATA #IMPLIED
                file-reference-id CDATA #IMPLIED
                status        CDATA #IMPLIED >

<!--
  Replace referenced object with new content ;
  e.g.,
  <replace-object id="p02">
    <p id="p01a" num="001a">(new content)</p>
  </replace-object>
-->
<!ELEMENT replace-object (%amend_content;)>

<!ATTLIST replace-object id      ID      #IMPLIED
                        num      CDATA   #IMPLIED
                        location CDATA   #IMPLIED >

<!--
  Insert new content after referenced object;
  e.g.,
  <insert-after-object id="p02">
    <p id="p03" num="003">(new content)</p>
  </insert-after-object>
-->
<!ELEMENT insert-after-object (%amend_content;)>

<!ATTLIST insert-after-object id      ID      #IMPLIED
                        num      CDATA   #IMPLIED
                        location CDATA   #IMPLIED >

<!--
  Insert new content before referenced object;
  e.g.,
  <insert-before-object id="p02">
    <p id="p01a" num="001a">(new content)</p>
  </insert-before-object>
-->
<!ELEMENT insert-before-object (%amend_content;)>

<!ATTLIST insert-before-object id      ID      #IMPLIED
                        num      CDATA   #IMPLIED
                        location CDATA   #IMPLIED >

<!--
  Delete object from document; e.g., paragraph, claim, etc.
  e.g.,
  <delete-object id='p06'></delete-object>
-->
<!ELEMENT delete-object EMPTY>

<!ATTLIST delete-object id      ID      #IMPLIED
                        num      CDATA   #IMPLIED
                        location CDATA   #IMPLIED >
```



```
<!--
  Amend entire sections of the application-body
-->
<!ELEMENT amend-body (doc-page+ | (description? , claims? , abstract? ,
drawings?))>
<!ATTLIST amend-body id ID #IMPLIED
                    lang CDATA #REQUIRED
                    status CDATA #IMPLIED >
<!--
  Drawings: PCT Article 7 / Rule 7
  Drawings shall be required when they are necessary for the understanding of the
  invention.

  Recommended id = 'draw'
-->
<!ELEMENT drawings (doc-page+ | figure+)>
<!ATTLIST drawings id ID #IMPLIED
                  lang CDATA #IMPLIED
                  status CDATA #IMPLIED >
<!--
  A drawing (figure), necessary for the understanding of the invention

  Recommended id = f0001, f0002, etc.
-->
<!ELEMENT figure (img)>
<!ATTLIST figure id ID #IMPLIED
                num CDATA #REQUIRED
                figure-labels CDATA #IMPLIED
                color (color | bw) #IMPLIED>
<!--
  ABSTRACT: PCT Rule 8
  (INID 57, ST.32:B570)
  A concise summary of the disclosure, 50-150 words.

  Recommended id = 'abst' or 'abst0001' for multiple abstracts
-->
<!ELEMENT abstract (doc-page+ | (abst-problem , abst-solution) | p+)>
<!ATTLIST abstract id ID #IMPLIED
                  lang CDATA #IMPLIED
                  status CDATA #IMPLIED >
<!--
  The solution to the alleged problem that the invention purports to solve.

  Recommended id = 'abss'
-->
<!ELEMENT abst-solution (p+)>
<!ATTLIST abst-solution id ID #IMPLIED >
<!--
  The alleged problem that the invention purports to solve

  Recommended id = 'absp'
-->
<!ELEMENT abst-problem (p+)>
```

```
<!ATTLIST abst-problem id ID #IMPLIED >

<!--
Claims:
the claims shall define the matter sought for patent and be supported by the
description.

Recommended id = 'claim' or 'claim0001' for multiple claims

-->
<!ELEMENT claims (doc-page+ | claim+)>

<!ATTLIST claims id ID #IMPLIED
                lang CDATA #IMPLIED
                claim-type CDATA #IMPLIED
                status CDATA #IMPLIED >

<!--
Defines the matter for which protection is sought
See PCT Rule 6:
6.1.a: 'the number of claims shall be reasonable in consideration of what is
being claimed.'
6.1.b: 'if there are several claims, they shall be numbered consecutively in
Arabic numerals.'

Recommended id values
If parent element is claims and there is only ONE set of claims:
id = c0001, c0002, etc.;num = 0001, 0002, etc.
If parent element is amended-claims and there is only ONE set then:
id = ac0001, ac0002, etc.;num = 0001, 0002, etc.
If parent element is claims and there are MULTIPLE sets of claims then:
id = c01.0001, c01.0002, etc.;num = 0001, 0002, etc.
id = c02.0001, c02.0002, etc.;num = 0001, 0002, etc.
If parent element is amended-claims and there are MULTIPLE sets of
amended-claims then:
id = ac01.0001, ac01.0002, etc.;num = 0001, 0002, etc.

-->
<!ELEMENT claim (claim-text+)>

<!ATTLIST claim id ID #IMPLIED
               num CDATA #REQUIRED
               claim-type CDATA #IMPLIED >

<!--
Reference to a claim

-->
<!ELEMENT claim-ref (#PCDATA)>

<!ATTLIST claim-ref idref IDREFS #REQUIRED >

<!--
Description:
The description must disclose the invention in a manner sufficiently clear and
complete for it to be carried out by a person skilled in the art (Rule 5).

Recommended id = 'desc'

-->
<!ELEMENT description (doc-page+ | (invention-title? , (technical-field |
background-art | disclosure | summary-of-invention | description-of-drawings |
description-of-embodiments | best-mode | mode-for-invention | industrial-
applicability | reference-signs-list | reference-to-deposited-biological-material |
sequence-list-text | citation-list | (heading* , p+)+))>

<!ATTLIST description id ID #IMPLIED
                    lang CDATA #IMPLIED
                    status CDATA #IMPLIED >
```

```
<!--
-->
<!ELEMENT citation-list (patent-literature | non-patent-literature | (heading* ,
p*)+)+>

<!ATTLIST citation-list id ID #IMPLIED >
<!--
-->
<!ELEMENT non-patent-literature (heading* , p+)+>

<!ATTLIST non-patent-literature id ID #IMPLIED >
<!--
-->
<!ELEMENT patent-literature (heading* , p+)+>

<!ATTLIST patent-literature id ID #IMPLIED >

<!--
Sequence listing free text
WIPO ST.25:
"36. Where the sequence listing part of the description contains free text,
any such free text shall be repeated in the main part of the description
in the language thereof.
It is recommended that the free text in the language of the main part of the
description be put in a specific section of the description called "Sequence
Listing Free Text".

Recommended id = 'seqt'

-->
<!ELEMENT sequence-list-text (heading* , p+)+>

<!ATTLIST sequence-list-text id ID #IMPLIED >
<!--
-->
<!ELEMENT reference-to-deposited-biological-material (heading* , p+)+>

<!ATTLIST reference-to-deposited-biological-material id ID #IMPLIED >
<!--
-->
<!ELEMENT reference-signs-list (heading* , p+)+>

<!ATTLIST reference-signs-list id ID #IMPLIED >

<!--
Article 33(4): "For purposes of the international preliminary examination,
a claimed invention shall be considered industrially applicable if, according to
its nature, it can be made or used (in the technological sense) in any kind of
industry.

Recommended id = 'inap'

-->
<!ELEMENT industrial-applicability (heading* , p+)+>

<!ATTLIST industrial-applicability id ID #IMPLIED >

<!--
PCT Rule 5.1(a)(vi): "The description shall...indicate explicitly, when it is not
obvious from the description or nature of the invention, the way in which the
invention is capable of exploitation in industry and the way in which it can be
made and used..."

Recommended id = 'mode'

-->
<!ELEMENT mode-for-invention (heading* , p+)+>

<!ATTLIST mode-for-invention id ID #IMPLIED
mode-num CDATA #IMPLIED >
```

```
<!--  
  The best mode contemplated by the applicant for carrying out the invention  
  claimed.  
  
  Recommended id = 'bmod'  
  
-->  
<!ELEMENT best-mode (heading* , p+)+>  
  
<!ATTLIST best-mode id ID #IMPLIED >  
<!--  
-->  
<!ELEMENT description-of-embodiments (embodiments-example | (heading* , p*)+)+>  
  
<!ATTLIST description-of-embodiments id ID #IMPLIED >  
<!--  
-->  
<!ELEMENT embodiments-example (heading* , p+)+>  
  
<!ATTLIST embodiments-example id ID #IMPLIED  
                                ex-num CDATA #IMPLIED >  
  
<!--  
  Brief description of the drawings (Rule 5.1(a)(iv)  
  
  Recommended id = 'desd'  
  
-->  
<!ELEMENT description-of-drawings (heading* , p+)+>  
  
<!ATTLIST description-of-drawings id ID #IMPLIED >  
<!--  
-->  
<!ELEMENT summary-of-invention (tech-problem | tech-solution | advantageous-effects  
| (heading* , p*)+)+>  
  
<!ATTLIST summary-of-invention id ID #IMPLIED >  
  
<!--  
  Disclosure of the invention with sub-headings:  
    technical problem;  
    technical solution;  
    advantageous effects (of the invention);  
  
  Recommended id = 'disc'  
  
-->  
<!ELEMENT disclosure ((tech-problem | tech-solution | advantageous-effects)* |  
(heading* , p+)+)>  
  
<!ATTLIST disclosure id ID #IMPLIED >  
  
<!--  
  advantageous effects of the invention (PCT Rule 5.1(a)(iii)  
  
  Recommended id = 'adve'  
  
-->  
<!ELEMENT advantageous-effects (heading* , p+)+>  
  
<!ATTLIST advantageous-effects id ID #IMPLIED >  
  
<!--  
  The solution to the problem that the invention purports to solve.  
  (PCT Rule 5.1(a)(iii)  
  
-->  
<!ELEMENT tech-solution (heading* , p+)+>
```

```
<!ATTLIST tech-solution id ID #IMPLIED >

<!--
  The problem the invention purports to solve (Rule 5.1(a)(iii)
-->
<!ELEMENT tech-problem (heading* , p+)+>

<!ATTLIST tech-problem id ID #IMPLIED >

<!--
  Background art, background of the invention.

  Recommended id = 'bart'
-->
<!ELEMENT background-art (heading* , p+)+>

<!ATTLIST background-art id ID #IMPLIED >

<!--
  PCT Rule 5.1:
  (a) The description shall first state the title of the invention as appearing
      in the request and shall:
      (i) specify the technical field to which the invention relates
-->
<!ELEMENT technical-field (heading* , p+)+>

<!ATTLIST technical-field id ID #IMPLIED >

<!--
  Paragraph

  Recommended id = p0001, p0002, etc. num = 0001, 0002, etc.

  Note: paragraphs may occur in sections other than the description and at
  different times eg. for the abstract, in this case use for example "p0001a";
  amended claims: "p0001ac", etc.
-->
<!ELEMENT p (#PCDATA | b | i | u | o | sup | sub | smallcaps | br | pre | dl | ul |
ol | crossref | figref | patcit | nplcit | bio-deposit | img | chemistry | maths |
tables | table-external-doc)*>

<!ATTLIST p id ID #IMPLIED
           num CDATA #REQUIRED >

<!--
  References a stand-alone table authored with the table-external DTD.
-->
<!ELEMENT table-external-doc (#PCDATA)>

<!ATTLIST table-external-doc id ID #IMPLIED
                             file CDATA #REQUIRED
                             lang CDATA #IMPLIED
                             carriers (internal-electronic |
                                     external-electronic |
                                     paper ) #IMPLIED
                             external-type (math |
                                             chemistry |
                                             program-listing |
                                             other ) #IMPLIED
                             status CDATA #IMPLIED >

<!--
  TABLES
  This is image data or coded according to OASIS Exchange model with modified cell
  'entry' content.
-->
```

```
Recommended id = tabl0001, tabl0002, etc.

-->
<!ELEMENT tables (img | table)>

<!ATTLIST tables id ID #IMPLIED
                 num CDATA #REQUIRED >

<!--
Definition list

Recommended id = ddis0001, ddis0002, etc.

-->
<!ELEMENT dl (dt , dd)+>

<!ATTLIST dl tsize CDATA #IMPLIED
             compact (compact ) #IMPLIED
             id ID #IMPLIED >

<!--
Term to be defined

Recommended id = dtrm0001, dtrm0002, etc.

-->
<!ELEMENT dt (#PCDATA | b | i | u | o | sup | sub | smallcaps)*>

<!ATTLIST dt id ID #IMPLIED >

<!--
Unordered Lists
list-style may be empty for lists with no bullet or other symbol default
list-style is 'bullets'

Recommended id = ulis0001, ulis0002, etc.

-->
<!ELEMENT ul (li+)>

<!ATTLIST ul id ID #IMPLIED
             list-style (bullet | dash | none ) 'bullet'
             compact (compact ) #IMPLIED >

<!--
List item

Recommended id = list0001, list0002, etc.

-->
<!ELEMENT li (#PCDATA | b | i | u | o | sup | sub | smallcaps | br | pre | patcit |
nplcit | bio-deposit | crossref | figref | img | dl | ul | ol | chemistry |
maths)*>

<!ATTLIST li id ID #IMPLIED
             num CDATA #IMPLIED >

<!--
MATHEMATICS
This is image data or coded according to mathml, version 2

Recommended id = math0001, math0002, etc.

-->
<!ELEMENT maths (img | (math , img?))>

<!ATTLIST maths id ID #IMPLIED
                num CDATA #REQUIRED >
```

```

<!--
Chemistry
Chemical formulae, ring structures, Markush structures, etc.

For now treat as image data.
Depending on industry support we may use, e.g., chemML, CML later

Recommended id = chem0001, chem0002, etc

-->
<!ELEMENT chemistry (img | (chem , img?))>

<!ATTLIST chemistry id ID #IMPLIED
                    num CDATA #REQUIRED >

<!--
This is a pointer to an external DTD for chemical markup - to be determined.
For EPO probably CML; http://www.xml-cml.org/

-->
<!ELEMENT chem EMPTY>

<!ATTLIST chem id ID #IMPLIED
              file CDATA #REQUIRED
              chem-type CDATA #IMPLIED >

<!--
Ordered Lists:
attribute 'ol-style'

Recommended use:
  l arabic numbers      1, 2, 3, ...
  a lower alpha        a, b, c, ...
  A upper alpha        A, B, C, ...
  i lower roman        i, ii, iii, ...
  I upper roman        I, II, III, ...

-->
<!ELEMENT ol (li+)>

<!ATTLIST ol id ID #IMPLIED
            compact (compact) #IMPLIED
            ol-style CDATA #IMPLIED >

<!--
Image data
Image is used for any kind of image: art work, figures, complex work units
(math, tables, chemistry), etc.

Recommended:
  id = i0001, i0002, etc.
  he, wi = "11" - milimeters - height, width;
  file = file name,location; label - not used;
  alt = alternate text if image not shown;
  img-content = drawing is the default;
  img-format = common will be tiff, st33 and st35 in for backward compatibilty
              and, later, publication.
  orientation = orientation of the image (portrait | landscape).
              Default is portrait
  inline = (yes | no).
           Whether the image is to be presented inline or separated by line
           breaks. Default is no.

-->
<!ELEMENT img EMPTY>

<!ATTLIST img id ID #IMPLIED
             he CDATA #REQUIRED
             wi CDATA #REQUIRED
             file CDATA #REQUIRED

```

```

        alt          CDATA  #IMPLIED
        img-content  (drawing |
                    photograph |
                    character |
                    dna |
                    undefined |
                    chem |
                    table |
                    math |
                    program-listing |
                    flowchart |
                    graph ) 'drawing'
        img-format   (jpg | tif | st33 | st35 ) #REQUIRED
        orientation  (portrait | landscape ) 'portrait'
        inline       (yes | no ) 'no' >

<!--
  A reference to a figure;
  e.g., "...as shown in <figref idref='f0001'>figure<b>1</b></figref>..."
-->
<!ELEMENT figref (#PCDATA | b | i | u | o | sup | sub | smallcaps)*>
<!ATTLIST figref  idref IDREFS  #IMPLIED
                num   CDATA    #IMPLIED >

<!--
  Cross reference to any other element with an identifier (id)
-->
<!ELEMENT crossref (#PCDATA | b | i | u | o | sup | sub | smallcaps)*>
<!ATTLIST crossref  idref IDREF  #REQUIRED >

<!--
  Biological deposit citation (US EFS: biological-deposit)
  (INID 83, ST.32:B830)
  According to PCT Rule 13bis, EPC Rule 28
  This covers all bio data references long and short within the description and/or
  claims

  Recommended id = biod0001, biod0002, etc.
-->
<!ELEMENT bio-deposit (depository , bio-accno , date? , term? , dtext?)>
<!ATTLIST bio-deposit  id   ID      #IMPLIED
                    num   CDATA    #REQUIRED
                    url   CDATA    #IMPLIED
                    dnum  CDATA    #IMPLIED >

<!--
  Non-Patent Literature (NPL) CITation;

  Notes:
  This can be free text data without any structure (#PCDATA) which is NOT
  recommended
  or it can be highly structured data which is marked up according to ST.14 and
  ISO 690 layout;

  This part of the DTD has used many different sources for element names and DTD
  structure and reference:
  AACR2 / MARC
  ISO 12083 - Electronic manuscript prep. and markup. DTD
  Association of American Publishers (AAP) Z39.59 DTD
  European Working Group for SGML (EWS) MAJOUR DTD
  SuperJournal Full Article DTD
  www.superjournal.ac.uk/sj
  Elsevier DTD
  Medline DTD (NLM)

```



```
Attributes (recommended):
  id - ncit0001, ncit0002, etc
  num - 0001, 0002
  npltype - The TYPE of citation is office specific (recommended)::
    A - Abstract citation of no specific kind
    B - Book citation
    I - Biological abstract citation
    C - Chemical abstracts citation
    E - Database citation
    D - Derwent citation
    P - Patent cited within NPL group
    J - Patent Abstracts of Japan citation (REC 067)
    S - Serial / Journal / Periodical citation
    W - World Wide Web / Internet search citation
  medium - the type of medium
    e.g., CD (CD-ROM), MT (Magnetic Tape), DISK, ONLINE
  file - file name on local systems eg. XP number in EPO
  url - where possible give full web link to document

-->
<!ELEMENT nplcit ((text | article | book | online | othercit) , rel-passage*)>

<!ATTLIST nplcit  id          ID          #IMPLIED
                  num        CDATA       #IMPLIED
                  lang       CDATA       #IMPLIED
                  file       CDATA       #IMPLIED
                  npl-type   CDATA       #IMPLIED
                  medium     CDATA       #IMPLIED
                  url        CDATA       #IMPLIED >

<!--
  Reference number (general); for the EPO this is the XP number
-->
<!ELEMENT refno (#PCDATA)>

<!ATTLIST refno  id ID #IMPLIED >

<!--
  Classification code; e.g., ipc, dewey etc.
-->
<!ELEMENT class (#PCDATA)>

<!ATTLIST class  class-type CDATA #IMPLIED >

<!--
  Subordinate responsibility; e.g., editor, translator, etc.
-->
<!ELEMENT subname (%name_group; | addressbook)>

<!ATTLIST subname  subname-type  (editor | translator | other-subname-type )
'editor' >

<!--
  Author

  Prime responsibility for the work
  there is no distinguishing between personal and corporate authors
  <author> followed by name or addressbook information
  use the ID attribute if, for example, there is a need to distinguish between
  multiple authors.
  Can also include affiliation details

  Recommended id = auth0001, auth0002, etc.
-->
<!ELEMENT author (%name_group; | addressbook)>
```

```
<!ATTLIST author id ID #IMPLIED >

<!--
ADDRESSBOOK GROUP:
Holds name and contact information for individuals/organizations

The LANG attribute is REQUIRED for certain document types,
e.g., the JPO PCT Request where names and addresses may be repeated in two
different languages. If no structure possible use text.
-->
<!ELEMENT addressbook ((%name_group; , address , phone* , fax* , email* , url* ,
ead* , dtext?) | text)>

<!ATTLIST addressbook id ID #IMPLIED
                    lang CDATA #IMPLIED >

<!--
Email address

Attribute:
    email-purpose    reason for which email address is included:
informal            for informal contact only
general             for any type of communication
confirmation        any type of communication, but formal messages followed up
                    by conventional mailing (to the extent offered)
main                where applicant desires this address to be used as primary
                    means of contact as a replacement of the use of conventional
                    post (to the extent that an Office offers this)
                    the default value depends on e-mail policies of the relevant Office.
                    For PCT purposes as at 1 July 2008, no attribute being included is
                    equivalent to 'informal'
-->
<!ELEMENT email (#PCDATA)>

<!ATTLIST email email-purpose (informal | general | advance | main ) #IMPLIED >

<!--
PATENT CITATIONS:
(ST.32:B561)
Patent Citation within abstract, description or claims.
For patent citations within Search Report see Search Report DTD

Notes:
Tags arranged according to WIPO ST.14 order.
This can be free text data without any structure (text).

Example:
<patcit id='pcit0001' dnum='US4793675A' dnum-type='publication number'>
  <document-id>
    <country>US</country>
    <doc-number>4793675</doc-number>
    <kind>A</kind>
    <name>Handa</name>
    <date>19881227</date>
  </document-id>
</patcit>

Note:
It is NOT expected that the applicant will create the tagged data
- it could be generated from a 'pull down' data entry form
or generated from internal SR databases

Attributes (recommended):
id - pcit0001, pcit0002, etc.
num - 0001, 0002, etc.
dnum - use full number as one string, eg, "US5401234A";
url - where possible give full web link to patent
```

```

file - file name eg. if stored on local systems
dnum-type - type of document number
           (e.g., application number, publication number)

-->
<!ELEMENT patcit (text | (document-id , rel-passage*))>

<!ATTLIST patcit  id      ID      #IMPLIED
                  num     CDATA   #IMPLIED
                  dnum    CDATA   #IMPLIED
                  dnum-type CDATA  #IMPLIED
                  file     CDATA  #IMPLIED
                  url      CDATA  #IMPLIED >

<!--
Document identification refers to patents (and patent applications) only.
See WIPO ST.14
-->

<!ELEMENT document-id (country , doc-number , kind? , name? , date?)>

<!ATTLIST document-id  lang CDATA  #IMPLIED >

<!--
Name:
If no distinction or detail can be given.
Also to be used for: personal (natural person) and corporate (legal entity) names
-->

<!ELEMENT name (#PCDATA)>

<!ATTLIST name  name-type  (legal | natural ) #IMPLIED >

<!--
This element is one method to identify content consisting of text objects that
require preservation (pre) of their whitespace in order to preserve internal
logical relationships.
(e.g., sequence listing fragments, computer program listings)
-->

<!ELEMENT pre (#PCDATA)>

<!ATTLIST pre  id      ID      #IMPLIED
              xml:space (preserve | default ) #IMPLIED
              listing-type (sequence | program-listing | other ) #REQUIRED
>

<!--
Heading text; see Rule 5.  Recommended id = h0001, h0002, etc.
-->

<!ELEMENT heading (#PCDATA | b | i | u | o | sup | sub | smallcaps)*>

<!ATTLIST heading  level  (1 | 2 | 3 ) #IMPLIED
                  id     ID      #IMPLIED >

<!--
Title of the Invention:
(INID 54, ST.32:B540/B542)

Preferably two to seven words when in English or translated into English and
precise. (Rule 4.3)

Recommended id = 'invt'
-->

<!ELEMENT invention-title (#PCDATA | b | i | u | o | sup | sub)*>

<!ATTLIST invention-title  id      ID      #IMPLIED
                          lang CDATA  #IMPLIED >

```

```
<!--
  Amendment statement (PCT Article 19.1, PCT Rule 46.4).
  May consist of a statement or an attached file
-->
<!ELEMENT amend-statement (doc-page+ | statement)>

<!ATTLIST amend-statement  id      ID      #IMPLIED
                             lang    CDATA   #IMPLIED
                             status  CDATA   #IMPLIED >

<!--
  Underscore: style - single is default
-->
<!ELEMENT u (#PCDATA | b | i | smallcaps | sup | sub)*>

<!ATTLIST u  style  (single | double | dash | dots ) 'single' >

<!--
  Overscore: style - single is default
-->
<!ELEMENT o (#PCDATA | b | i | smallcaps | sup | sub)*>

<!ATTLIST o  style  (single |
                    double |
                    dash |
                    dots |
                    leftarrow |
                    rightarrow |
                    leftrightarrow ) 'single' >

<!--
  doc-page - DOCument or PAGE

  This is primarily to be used when data for the whole or major sections of an
  application are in image format OR other formats such as pdf.

  Page range attributes are given when required
  pp - page range
  ppf - first page
  ppl - last page (for pdf).
  The 'img' may also be used for complete pages, e.g. in drawings

  Recommended id = docp0001, docp0002, etc.
  Attributes "he" and "wi" mean height and width.
-->
<!ELEMENT doc-page EMPTY>

<!ATTLIST doc-page  id      ID      #IMPLIED
                    he      CDATA   #REQUIRED
                    wi      CDATA   #REQUIRED
                    type     (jpg | pdf | tif ) #REQUIRED
                    alt      CDATA   #IMPLIED
                    pp       CDATA   #IMPLIED
                    ppf      CDATA   #IMPLIED
                    ppl      CDATA   #IMPLIED
                    file     CDATA   #REQUIRED
                    ocr      CDATA   #IMPLIED
                    color    (color | bw ) #IMPLIED
                    orientation (portrait | landscape ) 'portrait' >

<!--
  Remarks section
-->
```

```
<!ELEMENT remarks (p+)>

<!--
  The text of the claim; also used for for sub-para indentation
-->
<!ELEMENT claim-text (#PCDATA | claim-text | claim-ref | b | i | u | o | sup | sub
| smallcaps | br | pre | crossref | figref | img | chemistry | maths)*>

<!--
  Definition description
-->
<!ELEMENT dd (#PCDATA | b | i | u | o | sup | sub | smallcaps | br | pre | patcit |
nplcit | bio-deposit | crossref | figref | img | ul | ol | chemistry | maths)*>

<!--
  Identifies the period of time during which the depository must be able to furnish
  samples of the biological material.
-->
<!ELEMENT term (#PCDATA)>

<!--
  Biological accession number:
  (ST.32:B831)
  The identification assigned to the biological material by the depository
-->
<!ELEMENT bio-accno (#PCDATA)>

<!--
  Information regarding the facility storing the biological deposit.
  (ST.32:B832)
-->
<!ELEMENT depository (#PCDATA | address)*>

<!--
  Other citations - free form
-->
<!ELEMENT othercit (#PCDATA | b | i | u | o | sup | sub)*>

<!--
  Online citation
  Revised according to ISO-690-2 - Electronic documents and parts thereof.
  Please refer to this standard for definitions and examples.
  See: http://www.nlc-bnc.ca/iso/tc46sc9/standard/690-2e.htm#Contents
  The tagging in fact is a mixture of article and book tags together with
  specific electronic source tags.
  'Online' is taken to mean any kind of electronic documentation:
  databases, internet, CD-Roms, DVD, email, etc

  EXAMPLES: ;

  Kirk-Othmer Encyclopedia of Chemical Technology [online].
  3rd ed. New York : John Wiley, 1984 [cited 3 January 1990].
  Available from: DIALOG Information Services, Palo Alto (Calif.).

  <nplcit id='ncit1' num='0001' type='E' medium='online'>
  <online>
  <online-title>Kirk-Othmer Encyclopedia of Chemical Technology
```

```
</online-title>
<edition>3rd ed.</edition>
<imprint>
  <address>
    <text>New York</text>
  </address>
  <name>John Wiley</name>
  <pubdate>19840000</pubdate>
</imprint>
<avail>dialog information services, palo alto (calif.).</avail>
<datecit>
  <date>19900103</date>
</datecit>
</online>
</nplcit>
```

* Article on Internet:

Clark, Carol. On the Threshold of a Brave New World.
In Blueprint of the Body [online].
CNN.com, 2000. [cited 24 August 2000;10:25 EST]. In-depth specials.
Available from: [http://www.cnn.com/SPECIALS/2000/genome/story/overview/]

```
<nplcit id='ncit1' num='0002' type='E' medium='online'>
<online>
  <author>
    <name>Clark, Carol</name>
  </author>
  <online-title>On the Threshold of a Brave New World</online-title>
  <imprint>
    <name>CNN.com, 2000</name>
  </imprint>
  <series>
    <text>In-depth specials</text>
  </series>
  <avail>http://www.cnn.com/SPECIALS/2000/genome/story/</avail>
  <datecit>
    <date>20000824; 10:25 est</date>
  </datecit>
</online>
</nplcit>
```

* Personal communication (e-mail)

Thacker, Jane. MPEG-21 project stream on digital item identification [online].
Message to: [iso.tc46.sc9@nlc-bnc.ca]. 3 October 2000; 13:33 EST [cited 6
October 2000; 13:10 EST].
Message-ID: [002f01c02d60\$051a64a0\$22a2580c@vaio]. Personal communication.

```
<nplcit id='ncit3' num='0003' type='E' medium='online'>
<online>
  <author>
    <name>Thacker, Jane</name>
  </author>
  <online-title>MPEG-21 project stream on digital item identification
</online-title>
  <subname>
    <name>Message to: <iso.tc46.sc9@nlc-bnc.ca></name>
  </subname>
  <pubdate>3 October 2000; 13:33 EST</pubdate>
  <notes>Personal communication</notes>
  <avail>Message-ID: <002f01c02d60$051a64a0$22a2580c@vaio></avail>
  <datecit><date>6 october 2000; 13:10 EST</date></datecit>
</online>
</nplcit>
```

-->

```
<!ELEMENT online (text | (author* , online-title* , hosttitle? , subname* ,
edition? , (serial | book)? , imprint? , pubdate? , history? , series? , hostno? ,
location? , notes? , avail , class* , keyword* , cpyrt? , issn? , isbn? , datecit?
, srchterm* , srchdate? , refno* , vid? , ino? , doi? , absno?))>
```

```
<!--  
  Date of search/retrieval  YYYYMMDD  
-->  
<!ELEMENT srchdate (date)>  
  
<!--  
  Search terms  
-->  
<!ELEMENT srchterm (#PCDATA)>  
  
<!--  
  Date cited - date on which the citation was cited.  
  May be different from srchdate below  
-->  
<!ELEMENT datecit (date)>  
  
<!--  
  Availability and access - REQUIRED use for URL, online database, ftp address,  
  email, etc.;  
  e.g., Available from Internet: http://www.epoline.org  
  Available from DIALOG Information Systems, Palo Alto (Calif.)  
-->  
<!ELEMENT avail (#PCDATA)>  
  
<!--  
  Numeration within host document  
-->  
<!ELEMENT hostno (#PCDATA)>  
  
<!--  
  History of the article (not serial)  
-->  
<!ELEMENT history (text | (received | accepted | revised | misc))>  
  
<!--  
  Miscellaneous information relating to the history of the article; see ISO 12083  
-->  
<!ELEMENT misc (#PCDATA | date)*>  
  
<!--  
  Date article was revised  
-->  
<!ELEMENT revised (date)>  
  
<!--  
  Date article was accepted  
-->  
<!ELEMENT accepted (date)>  
  
<!--
```

```
Date article was received

-->
<!ELEMENT received (date)>

<!--
  Title of the host document/database
-->
<!ELEMENT hosttitle (#PCDATA)>

<!--
  The title of the electronic resource
-->
<!ELEMENT online-title (#PCDATA)>

<!--
  Article citations within a 'host' document

  After patent citations the most common citations are articles within serials
  (periodicals, magazines), books and electronic (eg. internet) sources.
  This is a very complex and varied area to standardise. The tag set below is drawn
  from a number of sources as is the order of the tags (which in any case can be
  changed depending on the stylesheet used).;

  The order of tags is that of WIPO ST.14 / ISO 690 layout.
  DROP, J.G. Integrated Circuit Personalization at the Module Level. IBM Tech.
  Dis. Bull. October 1974, Vol. 17, No. 5, p. 1344 and 1345.
  [XPnnnnnnnnnn].

  <nplcit id='ncit1' num='0012' type='S' file='XP1234456'>
    <article>
      <author>
        <name>DROP, J.G.</name>
      </author>
      <atl>Integrated Circuit Personalization at the Module Level</atl>
      <serial>
        <sertitle>IBM Tech. Dis. Bull.</sertitle>
        <pubdate>19741000</pubdate>
        <vid>17</vid>
        <ino>5</ino>
      </serial>
      <location>
        <pp>1344 and 1345</pp>
      </location>
      <refno id='XP1'>XP1234456</refno>
    </article>
  </nplcit>

  Note: it is NOT expected that the applicant will create the tagged data
  - it can be generated from a 'pull down' data entry form (eg. in Word) or
  generated from internal SR databases

-->
<!ELEMENT article (text | (author* , atl? , subname* , (serial | book) , absno? ,
location? , class* , keyword* , cpyrt? , artid? , refno*))>

<!--
  Article unique ID - assigned by a publisher to an article
-->
<!ELEMENT artid (#PCDATA)>

<!--
```


Book citation

In the order specified by WIPO ST.14 and ISO 690 and AACR2 rules for layout

WALTON, Herrmann. Microwave quantum theory.
London : Sweet and Maxwell, 1973. ISBN 0123456789.
Vol.2, p. 138 to 192.

```

<nplcit id='ncit12' num='0013' type='b'>
  <book>
    <author>
      <name>WALTON, Herrman</name>
    </author>
    <book-title>Microwave quantum theory</book-title>
    <imprint>
      <address>
        <text>London</text>
      </address>
      <name>Sweet and Maxwell</name>
      <pubdate>19730000</pubdate>
    </imprint>
    <location>
      <pp>138 to 192</pp>
    </location>
    <isbn>0-1234-568-9</isbn>
  </book>
</nplcit>

-->
<!ELEMENT book (text | (author* , (book-title+ | conference) , (subtitle? ,
subname* , edition? , imprint? , descrip? , series? , absno? , location* , isbn* ,
pubid? , vid? , bookno? , notes? , class* , keyword* , cpyrt? , refno* , doi? ,
ino? , issn?)))>

<!--
  Keyword; e.g., from a Thesaurus or class. scheme
  (ST.32:B550)
-->
<!ELEMENT keyword (#PCDATA)>

<!--
  Book number
-->
<!ELEMENT bookno (#PCDATA)>

<!--
  Location within the cited work
-->
<!ELEMENT location (text | (serpart? , sersect? , chapter? , pp? , column? , para?
, line?))>

<!--
  Referenced line within cited work
-->
<!ELEMENT line (#PCDATA | linef | line1)*>

<!--
  Cited document line, last
-->
<!ELEMENT line1 (#PCDATA)>

```

```
<!--  
  Cited document line, first  
-->  
<!ELEMENT linef (#PCDATA)>  
  
<!--  
  Referenced paragraph within cited work  
-->  
<!ELEMENT para (#PCDATA | paraf | paral)*>  
  
<!--  
  Cited paragraph, last  
-->  
<!ELEMENT paral (#PCDATA)>  
  
<!--  
  Cited paragraph, first  
-->  
<!ELEMENT paraf (#PCDATA)>  
  
<!--  
  Cited document column numbers  
-->  
<!ELEMENT column (#PCDATA | colf | coll)*>  
  
<!--  
  Cited document column, last  
-->  
<!ELEMENT coll (#PCDATA)>  
  
<!--  
  Cited document column, first  
-->  
<!ELEMENT colf (#PCDATA)>  
  
<!--  
  Cited document page numbers  
-->  
<!ELEMENT pp (#PCDATA | ppf | ppl)*>  
  
<!--  
  Cited document page, last  
-->  
<!ELEMENT ppl (#PCDATA)>  
  
<!--  
  Cited document page , first  
-->  
<!ELEMENT ppf (#PCDATA)>
```

```
<!--  
  Chapter; e.g., in a book.  Example: Chapter 2  
-->  
<!ELEMENT chapter (#PCDATA)>  
  
<!--  
  Serial section  
-->  
<!ELEMENT sersect (#PCDATA)>  
  
<!--  
  Part within a serial  
-->  
<!ELEMENT serpart (#PCDATA)>  
  
<!--  
  Abstract number  
-->  
<!ELEMENT absno (#PCDATA)>  
  
<!--  
  Series statement  
-->  
<!ELEMENT series (text | (mst , msn? , issn?))>  
  
<!--  
  Monographic series number  
-->  
<!ELEMENT msn (#PCDATA)>  
  
<!--  
  Monographic series title  
-->  
<!ELEMENT mst (#PCDATA)>  
  
<!--  
  Edition statement  
  (ST.32:B516)  
-->  
<!ELEMENT edition (#PCDATA)>  
  
<!--  
  Book subtitle  
-->  
<!ELEMENT subtitle (#PCDATA)>  
  
<!--  
  CONFERENCE GROUP / CITATION  
  There is no standard way of citing conference proceedings; date of the conf. may  
  come before or after place, for example. The tags are specified in a set order  
  where it is not possible or correct then simply use <text>
```

```
-->
<!ELEMENT conference (text | (conftitle , confdate? , confno? , confplace? ,
confsponsor*))>

<!--

-->
<!ELEMENT confdate (date | (sdate , edate))>

<!--
  Conference sponsor
-->
<!ELEMENT confsponsor (#PCDATA | addressbook)*>

<!--
  Conference place
-->
<!ELEMENT confplace (#PCDATA | address)*>

<!--
  Conference number
-->
<!ELEMENT confno (#PCDATA)>

<!--
  Conference title
-->
<!ELEMENT conftitle (#PCDATA)>

<!--
  The title of the cited book
-->
<!ELEMENT book-title (#PCDATA)>

<!--
  Serial citation data:
  This describes the volume or issue as a whole and not a particular article within
  it.
-->
<!ELEMENT serial (sertitle , alttitle? , subname* , issue? , imprint? , pubdate? ,
descrip? , notes? , isbn? , issn? , pubid? , vid? , ino? , cpyrt? , doi?)>

<!--

-->
<!ELEMENT doi (#PCDATA)>

<!--
  Copyright info. Copyright of publisher of serial
-->
<!ELEMENT cpyrt (#PCDATA)>
```

```
<!--  
  Issue number  
-->  
<!ELEMENT ino (#PCDATA)>  
  
<!--  
  Volume id/number  
-->  
<!ELEMENT vid (#PCDATA)>  
  
<!--  
  Publisher's unique id  
-->  
<!ELEMENT pubid (#PCDATA)>  
  
<!--  
  International Standard Book Number  
-->  
<!ELEMENT isbn (#PCDATA)>  
  
<!--  
  International Standard Serial Number  
-->  
<!ELEMENT issn (#PCDATA)>  
  
<!--  
  Notes about the journal; e.g. Continues Journal of XYZ 1910-1998, published in  
  French and English, etc.  
-->  
<!ELEMENT notes (#PCDATA)>  
  
<!--  
  Physical description - generally NOT used in citations in pats; e.g., v., 27cm  
-->  
<!ELEMENT descrip (#PCDATA)>  
  
<!--  
  Imprint:  
  Publication / creation data  
  Place of publication : publisher, date(s) of publication usually only date of  
  publication is used for journal citations  
-->  
<!ELEMENT imprint (text | (address? , name , pubdate*))>  
  
<!--  
  Publication date used in npl citations  
-->  
<!ELEMENT pubdate (#PCDATA | sdate | edate | time)*>  
  
<!--
```

```
Time; format HHMM

-->
<!ELEMENT time (#PCDATA)>

<!--
  End date used in pubdate
-->
<!ELEMENT edate (#PCDATA)>

<!--
  Start date used in pubdate
-->
<!ELEMENT sdate (#PCDATA)>

<!--
  Issue designation; e.g., Annual, 1971-, 1890-1972
-->
<!ELEMENT issue (#PCDATA)>

<!--
  Alternate title for serial; e.g. BMJ = British Medical Journal
-->
<!ELEMENT alttitle (#PCDATA)>

<!--
  Serial title
-->
<!ELEMENT sertitle (#PCDATA)>

<!--
  Article title
-->
<!ELEMENT atl (#PCDATA)>

<!--
  Descriptive text
-->
<!ELEMENT dtext (#PCDATA)>

<!--
  Universal Resource Locator; e.g. www.wipo.int
-->
<!ELEMENT url (#PCDATA)>

<!--
  Fax number
-->
<!ELEMENT fax (#PCDATA)>

<!--
```

```
Telephone number

-->
<!ELEMENT phone (#PCDATA)>

<!--
  Electronic address use for other than email
-->
<!ELEMENT ead (#PCDATA)>

<!--
  Address components:
  Address formats differ from country to country
  If no structure possible use text
-->
<!ELEMENT address (%address_group;)>

<!--
  Postal code or zip code
-->
<!ELEMENT postcode (#PCDATA)>

<!--
  Region of country; e.g., state, province, etc.
-->
<!ELEMENT state (#PCDATA)>

<!--
  County, parish, department, etc (mainly UK, USA)
-->
<!ELEMENT county (#PCDATA)>

<!--
  City or town name
-->
<!ELEMENT city (#PCDATA)>

<!--
  Street may contain house number or name
-->
<!ELEMENT street (#PCDATA)>

<!--
  Building information in address; e.g., Hoffman building
-->
<!ELEMENT building (#PCDATA)>

<!--
  Address floor; e.g., 10th
-->
<!ELEMENT address-floor (#PCDATA)>
```

```
<!--  
  Address room; e.g., Room 55B  
-->  
<!ELEMENT room (#PCDATA)>  
  
<!--  
  Post Office Box number  
-->  
<!ELEMENT pobox (#PCDATA)>  
  
<!--  
  Organizational mail code  
-->  
<!ELEMENT mailcode (#PCDATA)>  
  
<!--  
  Address, fifth line  
-->  
<!ELEMENT address-5 (#PCDATA)>  
  
<!--  
  Address, fourth line  
-->  
<!ELEMENT address-4 (#PCDATA)>  
  
<!--  
  Address, third line  
-->  
<!ELEMENT address-3 (#PCDATA)>  
  
<!--  
  Address, second line  
-->  
<!ELEMENT address-2 (#PCDATA)>  
  
<!--  
  Address, first line  
-->  
<!ELEMENT address-1 (#PCDATA)>  
  
<!--  
  Registered number  
-->  
<!ELEMENT registered-number (#PCDATA)>  
  
<!--  
  Synonym  
-->  
<!ELEMENT synonym (#PCDATA)>
```



```
<!--  
  Department, division, section, etc. name  
-->  
<!ELEMENT department (#PCDATA)>  
  
<!--  
  Organisation name or company name  
-->  
<!ELEMENT orgname (#PCDATA)>  
  
<!--  
  Role; e.g., President, Chairman, etc.  
-->  
<!ELEMENT role (#PCDATA)>  
  
<!--  
  SDOBI : Individual id  
-->  
<!ELEMENT iid (#PCDATA)>  
  
<!--  
  Name suffix (e.g., II, Jr., Dip., Ing., BA, etc.)  
-->  
<!ELEMENT suffix (#PCDATA)>  
  
<!--  
  Middle name(s) or initial(s)  
-->  
<!ELEMENT middle-name (#PCDATA)>  
  
<!--  
  First or given name(s), initial(s)  
-->  
<!ELEMENT first-name (#PCDATA)>  
  
<!--  
  Last, family, surname  
-->  
<!ELEMENT last-name (#PCDATA)>  
  
<!--  
  Title: e.g., Mr., Mrs., Dr. etc  
-->  
<!ELEMENT prefix (#PCDATA)>  
  
<!--  
  Relevant passage group within patent; most used in search reports  
  - use text in abstract, description and claims  
-->  
<!ELEMENT rel-passage (text | (passage+ , (category , rel-claims?)*))>
```

```
<!--  
  Relevant claims  
-->  
<!ELEMENT rel-claims (#PCDATA)>  
  
<!--  
  Category  
  (ST.32:B563)  
-->  
<!ELEMENT category (#PCDATA)>  
  
<!--  
  Passage within the cited patent literature  
-->  
<!ELEMENT passage (#PCDATA)>  
  
<!--  
  Date: components of a date.  Format: YYYYMMDD  
-->  
<!ELEMENT date (#PCDATA)>  
  
<!--  
  Document kind code; e.g., A1  
  (INID 13, ST.32:B130)  
-->  
<!ELEMENT kind (#PCDATA)>  
  
<!--  
  The number of the referenced patent (or application) document  
-->  
<!ELEMENT doc-number (#PCDATA)>  
  
<!--  
  Country: use ST.3 country code; e.g. DE, FR, GB, NL, etc.  
  Also includes EP, WO  
-->  
<!ELEMENT country (#PCDATA)>  
  
<!--  
  If no structure is possible, enter text (without markup)  
-->  
<!ELEMENT text (#PCDATA)>  
  
<!--  
  br - break, line break within a paragraph  
-->  
<!ELEMENT br EMPTY>  
  
<!--  
  Statement concerning amendments (PCT Article 19.1, PCT Rule 46.4)
```

```
-->
<!ELEMENT statement (#PCDATA | b | i | u | o | sup | sub)*>

<!--
  Bold formatting for text
-->
<!ELEMENT b (#PCDATA | i | u | o | smallcaps | sup | sub)*>

<!--
  Italic formatting for text
-->
<!ELEMENT i (#PCDATA | b | u | o | smallcaps | sup | sub)*>

<!--
  Small capitals
-->
<!ELEMENT smallcaps (#PCDATA | b | u | i | o)*>

<!--
  Subscripted text
-->
<!ELEMENT sub (#PCDATA | b | u | i | o | sup2 | sub2)*>

<!--
  Superscripted text
-->
<!ELEMENT sup (#PCDATA | b | u | i | o | sup2 | sub2)*>

<!--
  Subscripted text
-->
<!ELEMENT sub2 (#PCDATA | b | u | i | o)*>

<!--
  Superscripted text
-->
<!ELEMENT sup2 (#PCDATA | b | u | i | o)*>
```

5.9 Rapport de recherche internationale

```
<?xml version='1.0' encoding='UTF-8' ?>

<!ENTITY % name_group "((name | (prefix? , (last-name | orgname) , first-name? ,
middle-name? , first-last-name? , second-last-name? , suffix? , iid? , role? ,
orgname? , department? , synonym*)) , registered-number?)">

<!ENTITY % address_group "((address-1? , address-2? , address-3? , address-4? ,
address-5? , mailcode? , pobox? , room? , address-floor? , building? , street? ,
city? , county? , state? , postcode? , country) | text)">

<!--
```

```

*****
* search-report (International Search Report) v2.0      JULY 2017      *
*****
* PUBLIC "-//WIPO//DTD SEARCH REPORT 2.0//EN" "search-report-v2-0.dtd" *
*****
* https://www.wipo.int/pct-safe/en/resources/1.15/search-report-v2-0.dtd *
*****
* contacts:
*   WIPO: Yuya USHIDA; yuya.ushida@wipo.int
*****
* revision history
*****
Asahi HASEBE: 01/07/17 incorporated changes from PFCs:
.. changed version number from v1.2 to 2.0
.. updated elements/attributes for ISR and ISA203
SY: 26/08/10 incorporated changes from PFCs:
..changed version number from v1.2 to v1.21
..For test only (PFC10/002, PFC10/003)
MO: 01/07/08 incorporated changes from PFCs:
..changed version number from v1.1 to v1.2
..added element 'earlier-search' to srep-for-pub (PFC08/003)
..added attribute 'email-purpose' to email (PFC08/006)
MO: 01/01/07 incorporated changes from PFCs:
..changed version number from v1.0 to v1.1
..implementation of PFC06/001
..added element 'sup' to u (PFC06/003)
..added element 'sup' to i (PFC06/003)
..added element 'sup' to b (PFC06/003)
..added element 'sub' to u (PFC06/003)
..added element 'sub' to i (PFC06/003)
..added element 'sub' to b (PFC06/003)
..added element 'o' to invention-title, b, i, sup, sup2, sub, sub2, heading, claim-
text,
  p, small-caps, dt, dd, li, crossref, figref, othercit, statement (PFC06/003)
..added element 'address-4' to address (PFC06/005)
..added element 'address-5' to address (PFC06/005)
January 2005
..released version number as v1.0
*****

*****
* SECTION I - DECLARATION, ENT. REFS, ISO sets, etc      *
*****
-->
<!--
import character entity set. Download from:
http://pcteasy.wipo.int/efiling_standards/schemaDocs/wipo.ent

Note that nsgmls-based parsers (SP, Near and Far Designer, etc.)
may not be able to process this file for reasons described below
in MathML comments.
-->
<!--ENTITY % wipo PUBLIC "-//WIPO//ENTITIES WIPO 1.0//EN" "wipo.ent">
%wipo;-->

<!--
*****
* INCLUDE COMPONENT DTDS (MATHML, OASIS EXCHANGE TABLE MODEL      *
*****
-->
<!-- DTD MathML2: maintained by W3C. Download from:
http://www.w3.org/TR/MathML2/DTD-MathML-20010221.zip

If using nsgmls-based parser (SP, Near and Far Designer, etc.)
uncomment 'mathml-charent-module' switch below or replace the
referenced MathML2 DTD with the version downloadable from:
http://www.w3.org/Math/DTD/dtd-sp.zip

This notice copied from: http://www.w3.org/Math/DTD/

```

```

"DTD for nsgmls
  Some systems (including the popular nsgmls parser) may not be able
  to process files using 'plane 1' characters which have Unicode
  numbers higher than #xFFFF. The versions of the DTD provided here
  incorporate the modifications mentioned above, but the high
  characters are replaced by the equivalent mchar construct
  <mchar name="..." /> this allows the DTD to be read and for MathML
  files to be validated using such systems."
-->

<!--ENTITY % mathml-charent.module "IGNORE" -->
<!ENTITY % MATHML.prefixed "IGNORE">
<!ENTITY % MATHML.xmlns "">

<!-- import MathML2 dtd -->
<!ENTITY % mathml2 PUBLIC "-//W3C//DTD MathML 2.0//EN" "mathml2.dtd">
%mathml2;

<!-- DTD OASIS Open XML Exchange Table Model.
  Maintained by OASIS; download from:
  http://www.oasis-open.org/specs/soextblx.dtd
  Note that the FPI in soextblx.dtd refers to itself as 'calstblx'.
  That convention has been followed here.
-->
<!-- create content for title element in table -->
<!ENTITY % title "<!ELEMENT title (#PCDATA | b | i | u | sup | sub | smallcaps)* >
">
%title;

<!-- override OASIS Exchange <entry> model -->
<!ENTITY % tbl.entry.mdl "(#PCDATA | b | i | u | sup | sub | smallcaps | br
| patcit | nplcit | bio-deposit | crossref | img
| dl | ul | ol | chemistry | maths)* ">

<!-- import OASIS Exchange model -->
<!ENTITY % calstblx PUBLIC "-//OASIS//DTD XML Exchange Table Model 19990315//EN"
"soextblx.dtd">
%calstblx;

<!--
*****
* SECTION II - DTD
*****

Notes:

This DTD is intended to process stand-alone search reports (SR) sent to the
applicant - use search-report-data when included in patent-doc.: xx-patent-
document.dtd
Namely the ISR (PCT) and the EPO SR.

This DTD is based on:
Form PCT/ISA/201 Jan. 2004 (International-type SR)
Form PCT/ISA/210 Jan. 2004 (main SR)
Form PCT/ISA/220 Jan. 2004 (transmittal)
Form PCT/ISA/237 Jan. 2004 (written opinion)

Some stylesheet info. has been put in in most places according to the NEW ISR
layout - it needs more detailed instructions and will need changing for the
published ISR as part of the PCT pamphlet.

It is recommended to use the new layout and not the "box" layout of current paper
forms.

Attributes:
id =
file = filename of the whole application
lang = language of application - use ISO639 language code
status = status of the application; values: new = new application
date-produced = YYYYMMDD e.g, 20011230 if desired, 12 characters maximum

```

```

search-type = type of search expected values are:
              isr for International Search Report
              sirs for Supplementary International Search Report
              international-type for international type search report
              national for national search-reports
              national-supplementary for supplementary national search reports
srep-type    = type of search with detailed office specific values allowed
srep-office  = Searching office, country code ST.3
dtd-version  = dtd version number
form-version = form version number. e.g. "201501"

-->
<!ELEMENT search-report (doc-page+ | (srep-info? , srep-for-pub? , office-specific-
srep-data*))>

<!ATTLIST search-report id          ID          #REQUIRED
                        file         CDATA     #REQUIRED
                        lang         CDATA     #IMPLIED
                        status       CDATA     #IMPLIED
                        date-produced CDATA     #REQUIRED
                        search-type   (international-type |
                                      isr |
                                      sirs |
                                      national |
                                      national-supplementary ) #IMPLIED
                        srep-type     CDATA     #IMPLIED
                        srep-office   CDATA     #REQUIRED
                        dtd-version   CDATA     #IMPLIED
                        form-version  CDATA     #IMPLIED >

<!--
Office is the ST.3 country code, including the regional authorities.
Office-dtd is the file which contains the DTD for the office-specific
bibliographic elements.
ALTERNATIVELY elemnt names may be grouped directly under this element.
- add the two letter ST.3 code.

-->
<!ELEMENT office-specific-srep-data EMPTY>

<!ATTLIST office-specific-srep-data office   CDATA #REQUIRED
                                     office-dtd CDATA #REQUIRED
                                     file      CDATA #REQUIRED
                                     id        ID   #IMPLIED
                                     lang      CDATA #IMPLIED
                                     status    CDATA #IMPLIED >

<!--
-->
<!--

Earlier search document referenced in search report

-->
<!ELEMENT srep-earlier-search (document-id)>

<!ATTLIST srep-earlier-search id ID #IMPLIED >

<!--
Patent family member.
(ST.32:B345)

-->
<!ELEMENT patent-family (priority-application , (family-member+ | text))>

<!ATTLIST patent-family id ID #IMPLIED >

<!--
Form PCT/ISA/2003 (April 2005)

```

If no search is to be carried out the search examiner will complete Form PCT/ISA/203
(Declaration of Non-Establishment of International Search Report),
see PCT INTERNATIONAL SEARCH AND PRELIMINARY EXAMINATION GUIDELINES, 9.03.

Where the subject matter of all claims constitutes a subject excluded from the search

where no meaningful search is possible for all of the claimed subject matter, a declaration

of non-establishment of the international search report is issued pursuant to Article 17(2)(a) on Form PCT/ISA/203,
see PCT INTERNATIONAL SEARCH AND PRELIMINARY EXAMINATION GUIDELINES, paragraph 9.40.

The phase attribute contains the code of the procedure, e.g. PCT, EP, US, ... and permits the reuse of the present DTD in national phases. Its values has been defaulted to PCT.

```
-->
<!ELEMENT srep-declaration ((srep-earlier-declaration* , srep-declaration-subject-
matter? , srep-declaration-compliance? , srep-declaration-sequence-listing? ,
additional-info?) | (heading? , p+)+)>
```

```
<!ATTLIST srep-declaration phase CDATA 'PCT' >
```

```
<!--
```

Form PCT/ISA/203 (April 2005)
Points 3. and 4. of Form PCT/ISA/203 (April 2005) indicate deficiencies of the international application related to sequence listings which are subject to the issuance of the declaration under Article 17(2)(a) for non compliance with Rules 13ter.1(c) and (d), namely:

- * The late furnishing or the non compliance with Annex C of the Administrative Instruction of a paper or an electronic sequence-listing is indicated by the paper and electronic attribute respectively;
- * The late furnishing or the non compliance with Annex C-bis of the Administrative Instruction of tables related to a sequence-listing is indicated by the table attribute;
- * The late payment of the furnishing fees is indicated with the late-furnishing-fee attribute.

```
-->
```

```
<!ELEMENT srep-declaration-sequence-listing EMPTY>
```

```
<!ATTLIST srep-declaration-sequence-listing paper (yes | no )
#IMPLIED
electronic (yes | no )
#IMPLIED
late-furnishing-fee (yes | no )
#IMPLIED
table (yes | no )
#IMPLIED >
```

```
<!--
```

Form PCT/ISA/203 (April 2005)
Point 2. of Form PCT/ISA/203 (April 2005) indicates which part(s) of the international application are subject to the issuance of the declaration under Article 17(2)(a).

```
-->
```

```
<!ELEMENT srep-declaration-compliance EMPTY>
```

```
<!ATTLIST srep-declaration-compliance description (yes | no ) #IMPLIED
claims (yes | no ) #IMPLIED
drawings (yes | no ) #IMPLIED >
```

```
<!--
```

Form PCT/ISA/203 (April 2005)
When it has been established that the subject-matter of the international application falls into one of the exceptions set out in Rule 39, point 1. of Form PCT/ISA/203 (April 2005) is

```

completed by selecting the exception.
Each attribute refers to a specific type of subject-matter excluded in Rule 39
(PCT International Search and Preliminary Examination Guidelines, chapter 9).

-->
<!ELEMENT srep-declaration-subject-matter EMPTY>

<!ATTLIST srep-declaration-subject-matter scientific-theories      (yes | no )
#IMPLIED
                                         mathematic-theories      (yes | no )
#IMPLIED
                                         plant-varieties          (yes | no )
#IMPLIED
                                         animal-varieties         (yes | no )
#IMPLIED
                                         bio-processes            (yes | no )
#IMPLIED
                                         business                 (yes | no )
#IMPLIED
                                         mental-act               (yes | no )
#IMPLIED
                                         games                    (yes | no )
#IMPLIED
                                         treatment-human          (yes | no )
#IMPLIED
                                         treatment-animal         (yes | no )
#IMPLIED
                                         diagnostic-methods       (yes | no )
#IMPLIED
                                         presentation-information (yes | no )
#IMPLIED
                                         computer-program         (yes | no )
#IMPLIED >

<!--
The International Searching Authority (ISA/_____)
has made a declaration under Article 17(2)(a) and has
not established an international search report
(see Form PCT/ISA/203 dated _____
(day/month/year)), (Rule 45bis.5(e)).
-->

<!ELEMENT srep-earlier-declaration EMPTY>

<!ATTLIST srep-earlier-declaration taken-into-account      (yes | no | not-
available ) 'yes'
                                         idref                IDREF #IMPLIED >

<!--

-->
<!ELEMENT limitation-of-search (text? , claims-searched* , claims-searched-
incompletely* , claims-not-searched* , reason-limited-search*)>

<!ATTLIST limitation-of-search sequence      CDATA #IMPLIED
                                         reason-type CDATA #IMPLIED >

<!--
Heading text identifying the parts of the description (see PCT Rule 5.1(c),
PCT/AI section 204). Recommended id = h0001, h0002, etc. The attribute level
defines a hierarchic level and may be associated with a style. Otherwise the
formatting tags may be used to highlight the heading text.
-->
<!ELEMENT heading (#PCDATA | b | i | u | o | sup | sub | smallcaps)*>

<!ATTLIST heading level      (1 | 2 | 3 ) #IMPLIED
id      ID #IMPLIED >

<!--*****

```


CITATIONS

Grouping tag for patent literature (patcit)
or non-patent literature (nplcit) plus data related to those citations.

Recommended id='cit0001', 'cit0002', etc.
For the SR: id='sr-cit0001', 'sr-cit0002'
For the WO: id='wo-cit0001'

@reference

Identification given by the party to the document, e.g. A1.

@exam-reference

Identification given by the search or examining division to the document,
e.g. D1.

@has-equivalent :

The expected usage of this attribute is that it will only be present in the
circumstances where the examiner explicitly
chooses to express the fact that the cited document has no equivalent document /
patent family members in the
rendered search report citation; in other words the attribute when present and
having the value "no" will result in the text
"No patent family" or "No equivalent documents" in the relevant language being
displayed on the search report.

-->

<!ELEMENT citation ((patcit | nplcit) , (rel-passage* , category* , rel-claims*)* ,
corresponding-docs* , classification-ipc? , classifications-
ipcr? , classification-national? , doi?)>

<!ATTLIST citation id ID #IMPLIED
cited-phase (application |
search |
international-search-report |
supplementary-international-search-report |
international-type-search-report |
national-search-report |
supplementary-national-search-report |
examination |
international-examination |
national-examination |
opposition |
limitation) #IMPLIED
cited-by (applicant | examiner | opponent | third-
party) #IMPLIED
reference CDATA #IMPLIED
exam-reference CDATA #IMPLIED
has-equivalent (yes | no) #IMPLIED >

<!--

Domestic or national classification.
(INID 52, ST.32:B520)

@scheme-name:

This attribute is used when it is necessary to distinguish between different
classification schemes
which may be in use at the same Office. In general, abbreviated forms should be
used where they
are widely recognized, for example scheme-name="CPC" for the Cooperative Patent
Classification.

-->

<!ELEMENT classification-national (country , edition? , main-classification ,
further-classification* , (additional-info | linked-indexing-code-group | unlinked-
indexing-code)* , text?)>

<!ATTLIST classification-national id ID #IMPLIED
scheme-name CDATA #IMPLIED>

```
<!ELEMENT classifications-ipcr (classification-ipcr+)>

<!ATTLIST classifications-ipcr id ID #IMPLIED >

<!--
  International Patent Classification (IPC) data;
-->
<!ELEMENT classification-ipcr ((ipc-version-indicator , classification-level? ,
section , class , subclass , main-group? , subgroup? , symbol-position? ,
classification-value? , action-date? , generating-office? , classification-status?
, classification-data-source?) | text)>

<!ATTLIST classification-ipcr id ID #IMPLIED
sequence CDATA #IMPLIED >

<!--
  International Patent Classification (IPC) data;
  (INID 51, ST.32:B510)
-->
<!ELEMENT classification-ipc (edition , main-classification , further-
classification* , (additional-info | linked-indexing-code-group | unlinked-
indexing-code)* , text?)>

<!ATTLIST classification-ipc id ID #IMPLIED >

<!--
  Further/secondary classification
  (ST.32:B512/B522)
-->
<!ELEMENT further-classification (#PCDATA)>

<!ATTLIST further-classification id ID #IMPLIED
sequence CDATA #IMPLIED >

<!--
  Stylesheet (for new layout) generates (for PCT) at the beginning:

  PATENT COOPERATION TREATY (PCT)
  INTERNATIONAL SEARCH REPORT (ISR) - PART 1 (PCT Articles 18 and Rules 43 and 44).
  SUPPLEMENTARY INTERNATIONAL SEARCH REPORT (SISR) - PART 1 (PCT Rule 45bis)

  FOR FURTHER ACTION see Notification of Transmittal of ISR (Form PCT/ISA/220)
  as well as, where applicable, abstract information below.
  **This will need modifying depending on styttesheet and output required **

  SREP - INFO DETAILS
  This is a repetition of data found elsewhere but we put it here also for
  convenience, formatting, etc
  The order has changed from the paper form.

  PCT covers Forms: 201, 210, 220
  EPO - covers Form 1507
-->
<!ELEMENT srep-info (doc-page+ | (correspondence-address? , file-reference-id? ,
application-reference+ , date-of-earliest-priority? , applicant-name , srep-
established? , srep-protest-fees? , srep-request-date? , srep-request-number? ,
srep-prior-art-docs* , srep-basis? , srep-claims-info? , srep-unity-of-invention? ,
srep-invention-title? , srep-abstract? , srep-figure-to-publish? , srep-info-admin
, srep-other-info? , srep-request-received-date? , earlier-searches? , text*))>

<!ATTLIST srep-info total-page-count CDATA #IMPLIED >

<!--
  Information relevant to a previous search-report on which is referred to by the
  present search-report.
-->
```

```
-->
<!ELEMENT earlier-search (application-reference? , date-search-completed?)>

<!ATTLIST earlier-search id ID #IMPLIED
                           office CDATA #REQUIRED
                           srep-type (international-type |
                                       isr |
                                       sivr |
                                       national |
                                       national-supplementary )
#REQUIRED
                           declaration-of-no-search (yes | no | not-
determined ) #REQUIRED >

<!ELEMENT srep-information (#PCDATA)>

<!ATTLIST srep-information srep-code CDATA #IMPLIED >

<!--
  A signature represented by electronic means
-->
<!ELEMENT electronic-signature (basic-signature | enhanced-signature)>

<!ATTLIST electronic-signature date CDATA #REQUIRED
                                place-signed CDATA #IMPLIED >

<!--
  A TIFF image of a signature
-->
<!ELEMENT fax-image EMPTY>

<!ATTLIST fax-image file CDATA #REQUIRED >

<!--
  Abstract Drawing

  The figure of the drawings to be published with the abstract is:
  Figure No.
  followed by text of attribute value:
  by-applicant = as suggested by the applicant.
  none-suggested = selected by the examiner because the applicant failed to
suggest a figure.
  by-examiner = selected by the examiner because this figure better characterizes
the invention.

  or:

  none = None of the figures is to be published with the abstract
  (Old PCT/ISA/210- 6 a and b)
-->
<!ELEMENT srep-figure-to-publish (figure-to-publish?)>

<!ATTLIST srep-figure-to-publish figinfo (by-applicant |
                                           none-suggested |
                                           by-examiner |
                                           none ) #REQUIRED >

<!--
  Abstract
  (followed by:)
  The text is approved as submitted by the applicant [attribute "yes" (default)]
  (or)
  The text has been established according to Rule 38.2(b), ]by this ISA as it
  appears below. The applicant may, within one month from the date of mailing of
  this ISR, submit comments to this ISA.
-->
```



```

<!--
Paragraph

Recommended id = p0001, p0002, etc. num = 0001, 0002, etc.

Note: paragraphs may occur in sections other than the description and at
different times eg. for the abstract, in this case use for example "p0001a";
amended claims: "p0001ac", etc.

-->
<!ELEMENT p (#PCDATA | b | i | u | o | sup | sub | smallcaps | br | pre | dl | ul |
ol | crossref | figref | patcit | nplcit | bio-deposit | img | chemistry | maths |
tables | table-external-doc)*>

<!ATTLIST p id ID #IMPLIED
num CDATA #REQUIRED >

<!--
References a stand-alone table authored with the table-external DTD.

-->
<!ELEMENT table-external-doc (#PCDATA)>

<!ATTLIST table-external-doc id ID #IMPLIED
file CDATA #REQUIRED
lang CDATA #IMPLIED
carriers (internal-electronic |
external-electronic |
paper ) #IMPLIED
external-type (math |
chemistry |
program-listing |
other ) #IMPLIED
status CDATA #IMPLIED >

<!--
TABLES
This is image data or coded according to OASIS Exchange model with modified cell
'entry' content.

Recommended id = tabl0001, tabl0002, etc.

-->
<!ELEMENT tables (img | table)>

<!ATTLIST tables id ID #IMPLIED
num CDATA #REQUIRED >

<!--
Definition list

Recommended id = dlis0001, dlis0002, etc.

-->
<!ELEMENT dl (dt , dd)+>

<!ATTLIST dl tsize CDATA #IMPLIED
compact (compact ) #IMPLIED
id ID #IMPLIED >

<!--
Term to be defined

Recommended id = dtrm0001, dtrm0002, etc.

-->
<!ELEMENT dt (#PCDATA | b | i | u | o | sup | sub | smallcaps)*>

<!ATTLIST dt id ID #IMPLIED >

```

```
<!--
Unordered Lists
  list-style may be empty for lists with no bullet or other symbol default
  list-style is 'bullets'

Recommended id = ulis0001, ulis0002, etc.

-->
<!ELEMENT ul (li+)>

<!ATTLIST ul  id          ID          #IMPLIED
              list-style  (bullet | dash | none ) 'bullet'
              compact     (compact ) #IMPLIED >

<!--
List item

Recommended id = list0001, list0002, etc.

-->
<!ELEMENT li (#PCDATA | b | i | u | o | sup | sub | smallcaps | br | pre | patcit |
nplcit | bio-deposit | crossref | figref | img | dl | ul | ol | chemistry |
maths)*>

<!ATTLIST li  id  ID          #IMPLIED
              num CDATA #IMPLIED >

<!--
MATHEMATICS
This is image data or coded according to mathml, version 2

Recommended id = math0001, math0002, etc.

-->
<!ELEMENT maths (img | formula-text | (math , img?))>

<!ATTLIST maths  id  ID          #IMPLIED
                 num CDATA #REQUIRED >

<!--
Chemistry
Chemical formulae, ring structures, Markush structures, etc.

For now treat as image data.
Depending on industry support we may use, e.g., chemML, CML later

Recommended id = chem0001, chem0002, etc

-->
<!ELEMENT chemistry (img | formula-text | (chem , img?))>

<!ATTLIST chemistry  id  ID          #IMPLIED
                     num CDATA #REQUIRED >

<!--
This is a pointer to an external DTD for chemical markup - to be determined.
For EPO probably CML; http://www.xml-cml.org/

-->
<!ELEMENT chem EMPTY>

<!ATTLIST chem  id          ID          #IMPLIED
                file       CDATA #REQUIRED
                chem-type  CDATA #IMPLIED >

<!--
Ordered Lists:
attribute 'ol-style'

Recommended use:
```



```
1 arabic numbers 1, 2, 3, ...
a lower alpha a, b, c, ...
A upper alpha A, B, C, ...
i lower roman i, ii, iii, ...
I upper roman I, II, III, ...

-->
<!ELEMENT ol (li+)>

<!ATTLIST ol id ID #IMPLIED
            compact (compact ) #IMPLIED
            ol-style CDATA #IMPLIED >

<!--
Image data
Image is used for any kind of image: art work, figures, complex work units
(math, tables, chemistry), etc.

Recommended:
id = i0001, i0002, etc.
he, wi = "11" - milimeters - height, width;
file = file name,location; label - not used;
alt = alternate text if image not shown;
img-content = drawing is the default;
img-format = common will be tiff, st33 and st35 in for backward compatibilty
and, later, publication.
orientation = orientation of the image (portrait | landscape).
Default is portrait
inline = (yes | no).
Whether the image is to be presented inline or separated by line
breaks. Default is no.

-->
<!ELEMENT img EMPTY>

<!ATTLIST img id ID #IMPLIED
            he CDATA #REQUIRED
            wi CDATA #REQUIRED
            file CDATA #REQUIRED
            alt CDATA #IMPLIED
            img-content (drawing |
                        photograph |
                        character |
                        dna |
                        undefined |
                        chem |
                        table |
                        math |
                        program-listing |
                        flowchart |
                        graph ) 'drawing'
            img-format (jpg | tif | st33 | st35 ) #REQUIRED
            orientation (portrait | landscape ) 'portrait'
            inline (yes | no ) 'no' >

<!--
A reference to a figure;
e.g., "...as shown in <figref idref='f0001'>figure<b>1</b></figref>..."

-->
<!ELEMENT figref (#PCDATA | b | i | u | o | sup | sub | smallcaps)*>

<!ATTLIST figref idref IDREFS #IMPLIED
                num CDATA #IMPLIED >

<!--
Cross reference to any other element with an identifier (id)

-->
<!ELEMENT crossref (#PCDATA | b | i | u | o | sup | sub | smallcaps)*>
```

```
<!ATTLIST crossref idref IDREF #REQUIRED >

<!--
Biological deposit citation (US EFS: biological-deposit)
(INID 83, ST.32:B830)
According to PCT Rule 13bis, EPC Rule 28
This covers all bio data references long and short within the description and/or
claims

Recommended id = biod0001, biod0002, etc.

-->
<!ELEMENT bio-deposit (depository , bio-accno , date? , term? , dtext?)>

<!ATTLIST bio-deposit id ID #IMPLIED
                    num CDATA #REQUIRED
                    url CDATA #IMPLIED
                    dnum CDATA #IMPLIED >

<!--
Non-Patent Literature (NPL) CITation;

Notes:
This can be free text data without any structure (#PCDATA) which is NOT
recommended
or it can be highly structured data which is marked up according to ST.14 and
ISO 690 layout;

This part of the DTD has used many different sources for element names and DTD
structure and reference:
AACR2 / MARC
ISO 12083 - Electronic manuscript prep. and markup. DTD
Association of American Publishers (AAP) Z39.59 DTD
European Working Group for SGML (EWS) MAJOUR DTD
SuperJournal Full Article DTD
www.superjournal.ac.uk/sj
Elsevier DTD
Medline DTD (NLM)

Attributes (recommended):
id - ncit0001, ncit0002, etc
num - 0001, 0002
npltype - The TYPE of citation is office specific (recommended):;
A - Abstract citation of no specific kind
B - Book citation
I - Biological abstract citation
C - Chemical abstracts citation
E - Database citation
D - Derwent citation
P - Patent cited within NPL group
J - Patent Abstracts of Japan citation (REC 067)
S - Serial / Journal / Periodical citation
W - World Wide Web / Internet search citation
medium - the type of medium
e.g., CD (CD-ROM), MT (Magnetic Tape), DISK, ONLINE
file - file name on local systems eg. XP number in EPO
url - where possible give full web link to document

-->
<!ELEMENT nplcit ((text | article | book | online | othercit) , rel-passage*)>

<!ATTLIST nplcit id ID #IMPLIED
                num CDATA #IMPLIED
                lang CDATA #IMPLIED
                file CDATA #IMPLIED
                npl-type CDATA #IMPLIED
                medium CDATA #IMPLIED
                url CDATA #IMPLIED >
```

```
<!--
  Reference number (general); for the EPO this is the XP number
-->
<!ELEMENT refno (#PCDATA)>

<!ATTLIST refno  id ID  #IMPLIED >

<!--
  Classification code; e.g., ipc, dewey etc.
-->
<!ELEMENT class (#PCDATA)>

<!ATTLIST class  class-type CDATA  #IMPLIED >

<!--
  Subordinate responsibility;  e.g., editor, translator, etc.
-->
<!ELEMENT subname (%name_group; | addressbook)>

<!ATTLIST subname  subname-type  (editor | translator | other-subname-type )
'editor' >

<!--
  Author

  Prime responsibility for the work
  there is no distinguishing between personal and corporate authors
  <author> followed by name or addressbook information
  use the ID attribute if, for example, there is a need to distinguish between
  multiple authors.
  Can also include affiliation details

  Recommended id = auth0001, auth0002, etc.
-->
<!ELEMENT author (%name_group; | addressbook)>

<!ATTLIST author  id ID  #IMPLIED >

<!--
  PATENT CITATIONS:
  (ST.32:B561)
  Patent Citation within abstract, description or claims.
  For patent citations within Search Report see Search Report DTD

  Notes:
  Tags arranged according to WIPO ST.14 order.
  This can be free text data without any structure (text).

  Example:
  <patcit id='pcit0001' dnum='US4793675A' dnum-type='publication number'>
    <document-id>
      <country>US</country>
      <doc-number>4793675</doc-number>
      <kind>A</kind>
      <name>Handa</name>
      <date>19881227</date>
    </document-id>
  </patcit>

  Note:
  It is NOT expected that the applicant will create the tagged data
  - it could be generated from a 'pull down' data entry form
  or generated from internal SR databases

  Attributes (recommended):
  id - pcit0001, pcit0002, etc.
```



```
search |
examination |
lang
international-type-search |
international-preliminary-
entry-regional-phase |
priority-document |
national-search |
national-examination |
opposition ) #IMPLIED
CDATA #IMPLIED >
<!--
This part preceded by - on old PCT/ISA/210 :
This international search report has been prepared by this ISA and is transmitted
to the applicant according to Article 18.
A copy is being transmitted to the International Bureau.

This international search report consists of a total of _____ sheets.
It is also accompanied by a copy of each prior art document cited in this report.
(This text will need modification for electronic transmission of the SR).

If the attribute value is "yes" then the prior art may accompany the SR as paper,
image data, or xml (application-body) data

-->
<!ELEMENT srep-prior-art-docs (doc-page | prior-art-xml-doc)*>
<!ATTLIST srep-prior-art-docs prior-art (yes | no ) #REQUIRED >
<!--
XML version prior art document, if any
To be checked may be application-body.

-->
<!ELEMENT prior-art-xml-doc EMPTY>
<!ATTLIST prior-art-xml-doc id ID #IMPLIED
file CDATA #REQUIRED
lang CDATA #IMPLIED
carriers (internal-electronic |
external-electronic |
paper ) #IMPLIED
status CDATA #IMPLIED >
<!--
With regard to the protest against payment of (an) additional fee(s)
under Rule 40.2, the applicant is notified that:

if yes:
the protest together with the decision thereon has been transmitted to the
International Bureau together with the applicant s request to forward the texts
of both the protest and the decision thereon to the designated Offices.

if no:
no decision has been made yet on the protest; the applicant will be notified
as soon as a decision is made.

-
Stylesheet note: this data is followed by Reminders and Notes (if printed)
otherwise put a link in to the relevant text.

-->
<!ELEMENT srep-protest-fees EMPTY>
<!ATTLIST srep-protest-fees srep-protest (yes | no ) 'yes' >
<!--
Form PCT/ISA/220 (January 2004)

If yes:
The applicant is hereby notified that the international search report and the
```

written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 740 14 35

if no:

The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

```
-->
<!ELEMENT srep-established EMPTY>

<!ATTLIST srep-established srep-established (yes | no ) 'yes' >

<!--
Application reference information: application number, country
(INID 21, ST.32:B210)
-->
<!ELEMENT application-reference (document-id)>

<!ATTLIST application-reference id ID #IMPLIED
                                appl-type CDATA #IMPLIED >

<!--
Document identification refers to patents (and patent applications) only.
See WIPO ST.14
-->
<!ELEMENT document-id (country , doc-number , kind? , name? , date?)>

<!ATTLIST document-id lang CDATA #IMPLIED >

<!--
ADDRESSBOOK GROUP:
Holds name and contact information for individuals/organizations

The LANG attribute is REQUIRED for certain document types,
e.g., the JPO PCT Request where names and addresses may be repeated in two
different languages. If no structure possible use text.
-->
<!ELEMENT addressbook ((%name_group; , address , phone* , fax* , email* , url* ,
ead* , dtext?) | text)>

<!ATTLIST addressbook id ID #IMPLIED
                    lang CDATA #IMPLIED >

<!--
Email address

Attribute:
email-purpose reason for which email address is included:
informal for informal contact only
general for any type of communication
confirmation any type of communication, but formal messages followed up
by conventional mailing (to the extent offered)
main where applicant desires this address to be used as primary
means of contact as a replacement of the use of conventional
post (to the extent that an Office offers this)
the default value depends on e-mail policies of the relevant Office.
For PCT purposes as at 1 July 2008, no attribute being included is
```

```

equivalent to 'informal'

-->
<!ELEMENT email (#PCDATA)>

<!ATTLIST email  email-purpose  (informal | general | advance | main ) #IMPLIED >

<!--
Name:
If no distinction or detail can be given.
Also to be used for: personal (natural person) and corporate (legal entity) names
-->
<!ELEMENT name (#PCDATA)>

<!ATTLIST name  name-type  (legal | natural ) #IMPLIED >

<!--
doc-page - DOCUMENT or PAGE

This is primarily to be used when data for the whole or major sections of an
application are in image format OR other formats such as pdf.

Page range attributes are given when required
  pp - page range
  ppf - first page
  ppl - last page (for pdf).
The 'img' may also be used for complete pages, e.g. in drawings

Recommended id = docp0001, docp0002, etc.
Attributes "he" and "wi" mean height and width.

-->
<!ELEMENT doc-page EMPTY>

<!ATTLIST doc-page  id          ID          #IMPLIED
                    he          CDATA       #REQUIRED
                    wi          CDATA       #REQUIRED
                    type        (jpg | pdf | tif ) #REQUIRED
                    alt         CDATA       #IMPLIED
                    pp          CDATA       #IMPLIED
                    ppf         CDATA       #IMPLIED
                    ppl         CDATA       #IMPLIED
                    file        CDATA       #REQUIRED
                    ocr         CDATA       #IMPLIED
                    color       (color | bw ) #IMPLIED
                    orientation (portrait | landscape ) 'portrait' >

<!--
SECTION III OF DTD
The actual search report - start a new page

The Heading is:
  <B>INTERNATIONAL SEARCH REPORT (ISR) - PART 2</B>
  <HR></HR>
Repeat international application number (?)
  IPC, FIELDS and DATABASES SEARCHED
  CLASSIFICATION OF SUBJECT MATTER

-->
<!ELEMENT srep-for-pub (doc-page+ | (classification-ipc? , classifications-ipcr? ,
classification-national? , srep-fields-searched , srep-citations , srep-incomplete-
search? , srep-declaration? , srep-admin? , srep-patent-family? , srep-earlier-
search* , sirs-scope?))>

<!--
Explanations with regard to the citations and/or the scope of the search (Rule

```

```
45bis.7(e)(ii))

-->
<!ELEMENT sirs-scope (heading* , p+)>

<!--
This is the old 210 (patent family annex)
Patent family information according to WIPO ST.14
For EP SR can be used for Annex to the EP SR.(Form P0459)
-->
<!ELEMENT srep-patent-family (text? , patent-family+)>

<!--
Patent family.
(ST.32:B345)
-->
<!ELEMENT family-member (document-id, rel-passage?)>

<!--
Priority application number.
(INID 31, ST.32:B310)

This element normally represents a priority application.
However, under <patent-family> this element may be used to represent a patent
document
which is cited in the search report, which may not necessarily be a priority
application which
links the family members.
-->
<!ELEMENT priority-application (document-id)>

<!--
SR - ADMINISTRATIVE DETAILS
example layout:

ISA/Examiner: EPO
DE LAERE, Ann
PB 5818, Patentlaan 2
NL 2280 HV Rijswijk
Tel. +31 - 70 340 2040
Fax. +31 - 70 340 3016
Search completed: 10 August 1992
ISR mailed: 24 August 1992

** End of ISR **
-->
<!ELEMENT srep-admin (examiners? , srep-office? , date-search-completed , date-
search-report-mailed?)>

<!--
Persons acting on the document.
(ST.32:B745)
-->
<!ELEMENT examiners (primary-examiner? , assistant-examiner? , authorized-
officer?)>

<!--
Assistant Examiner.
(ST.32:B747)
```



```
-->
<!ELEMENT assistant-examiner (%name_group; , electronic-signature?)>

<!--
  Primary Examiner.
  (ST.32:B746)
-->
<!ELEMENT primary-examiner (%name_group; , electronic-signature?)>

<!--
  The element is to process EPO SR FORM 1503 - partial SR.
  e.g., EP 99305342
-->
<!ELEMENT srep-incomplete-search (text | limitation-of-search+)>

<!ELEMENT reason-limited-search (heading? , p+)>

<!ELEMENT claims-not-searched (#PCDATA)>

<!ELEMENT claims-searched-incompletely (#PCDATA)>

<!ELEMENT claims-searched (#PCDATA)>

<!--
  CITATIONS GROUP

  Stylesheet:DOCUMENTS CONSIDERED TO BE RELEVANT
  (Citation, any relevant passage (*), followed by category and claim number(s))
-->
<!ELEMENT srep-citations (text | citation+)>

<!--
  Patent family and corresponding-docs
-->
<!ELEMENT corresponding-docs ((patcit | nplcit) , (rel-passage* , category* , rel-claims*)*)>

<!--
  FIELDS SEARCHED (old B. box)
-->
<!ELEMENT srep-fields-searched (minimum-documentation , other-documentation* , database-searched?)>

<!--
  Database(s) searched
-->
<!ELEMENT database-searched (text | nplcit)>

<!--
  Documentation searched other than minimum documentation
-->
```

```
<!ELEMENT other-documentation (#PCDATA)>

<!--
  Minimum documentation searched
-->
<!ELEMENT minimum-documentation (classification-ipc? , classifications-ipcr? ,
classification-national?)>

<!--
  Possible sources: human-generated-classification,
  machine-propagated-classification, software-analysis-generated-classification
-->
<!ELEMENT classification-data-source (#PCDATA)>

<!--
  Possible status: original-classification, reclassified, various-classification,
  deleted-classification
-->
<!ELEMENT classification-status (#PCDATA)>

<!--

-->
<!ELEMENT generating-office (country)>

<!--

-->
<!ELEMENT action-date (date)>

<!--
  Possible values: invention, non-invention
-->
<!ELEMENT classification-value (#PCDATA)>

<!--
  Possible positions: first-symbol-position, later-symbol-position.
-->
<!ELEMENT symbol-position (#PCDATA)>

<!--

-->
<!ELEMENT subgroup (#PCDATA)>

<!--

-->
<!ELEMENT main-group (#PCDATA)>

<!--
```

```
-->
<!ELEMENT subclass (#PCDATA)>

<!--

-->
<!ELEMENT section (#PCDATA)>

<!--
  Levels: ipcr-advanced, ipcr-core
-->
<!ELEMENT classification-level (#PCDATA)>

<!--

-->
<!ELEMENT ipc-version-indicator (date)>

<!--
  Unlinked indexing code.
  (ST.32:B515/B525)
-->
<!ELEMENT unlinked-indexing-code (#PCDATA)>

<!--
  Linked indexing code.
  (ST.32:B514/B524)
-->
<!ELEMENT linked-indexing-code-group (main-linked-indexing-code , sub-linked-
indexing-code+)>

<!--
  Sub/further Linked Indexing Code.
-->
<!ELEMENT sub-linked-indexing-code (#PCDATA)>

<!--
  Main Linked Indexing Code.
-->
<!ELEMENT main-linked-indexing-code (#PCDATA)>

<!--
  Main classification.
  (ST.32:B511/B521)
-->
<!ELEMENT main-classification (#PCDATA)>

<!--
  Grouping tag referencing all previous to which a (supplementary) international
  search report refers to.
```

```
-->
<!ELEMENT earlier-searches (earlier-search+)>

<!--
  Date of completion of search report.
  (ST.32:B565)
-->
<!ELEMENT date-search-completed (date)>

<!--
  Date of reception of the request for (supplementary) search
-->
<!ELEMENT srep-request-received-date (date)>

<!--
  This is a place marker since there may be other information added at a later
  stage which has not been foreseen.
-->
<!ELEMENT srep-other-info (srep-information+)>

<!ELEMENT srep-info-admin (authorized-officer? , srep-office? , date-search-report-
mailed? , date-opinion-completed?)>

<!--

-->
<!ELEMENT date-opinion-completed (date)>

<!--
  Date of mailing of search report.
  (ST.32:B566)
-->
<!ELEMENT date-search-report-mailed (date)>

<!--
  International Search Authority; international search to be carried out by
-->
<!ELEMENT srep-office (addressbook)>

<!--
  Authorized Officer.
-->
<!ELEMENT authorized-officer (%name_group; , phone? , fax? , email? , electronic-
signature?)>

<!--
  A PKI / PKCS #7 digital signature data type
-->
<!ELEMENT enhanced-signature (pkcs7)>

<!--
  PKCS7 digital signature
```

```
-->
<!ELEMENT pkcs7 EMPTY>

<!--
  A non-PKI electronic signature
-->
<!ELEMENT basic-signature (fax-image | text-string | click-wrap)>

<!--
  A simple 'signature';
  e.g., clicking a button labeled 'accept' or 'I agree'
-->
<!ELEMENT click-wrap EMPTY>

<!--
  A simple text string is to be used as the basic electronic signature;
  e.g., John Doe <text-string>/jd/</text-string>
-->
<!ELEMENT text-string (#PCDATA)>

<!--
  The total amount due for each fee group;
  e.g., search fees, transmittal fees, etc.
-->
<!ELEMENT amount-total (#PCDATA)>

<!--
  Figure of the drawings which should accompany the abstract
-->
<!ELEMENT figure-to-publish (fig-number+)>

<!--
  PCT/RO/101 Box IX: the number of the figure which should accompany the abstract.
  (ST.32:B598)
-->
<!ELEMENT fig-number (#PCDATA)>

<!ELEMENT srep-search-fees (srep-fee-1? , srep-fee-2? , srep-fee-3? , srep-fee-4?)>

<!--
  No required additional search fees were timely paid by the applicant.
  Consequently, this ISR is restricted to the invention first mentioned in the
  claims; it is covered by claim number(s):
-->
<!ELEMENT srep-fee-4 (claim-num+)>

<!--
  As only some of the required additional search fees were timely paid by the
  applicant, this ISR covers only those claims for which fees were paid,
  specifically claim number(s):
-->
<!ELEMENT srep-fee-3 (claim-num+)>
```

```
<!--
  As all searchable claims could be searched without effort justifying an
  additional fee, this ISA did not invite payment of any additional fees.
-->
<!ELEMENT srep-fee-2 EMPTY>

<!--
  As all required additional search fees were timely paid by the applicant,
  this ISR covers all searchable claims.
-->
<!ELEMENT srep-fee-1 EMPTY>

<!--
  (Old PCT/ISA/210 - Box No. II)
  Observations where certain claims were found unsearchable

  This ISR has not been established in respect of certain claims
  under Article 17(2)(a) for the following reasons.
  The reasons for which sets of claims were not searched will be provided with an
  element srep-claims-not-searched for each set.
-->
<!ELEMENT srep-claims-info (srep-claims-not-searched*)>

<!--
  Remarks on these claims
-->
<!ELEMENT claim-remark (p+)>

<!--
  Claim numbers
-->
<!ELEMENT claim-num (#PCDATA)>

<!--
  PCT/ISA/210 Box 1::Basis of the Report
-->
<!ELEMENT srep-basis (translation-of-appl , sequence-list-basis? , srep-
rectification-of-obvious-mistake? , srep-earlier-search-or-declaration-
considered*)>

<!--
  This supplementary international search report has
  been established taking into account the rectification
  of an obvious mistake notified to this Authority under Rule 91
  (Rules 43.6bis(a) and 45bis.7(c)).
-->
<!ELEMENT srep-rectification-of-obvious-mistake EMPTY>

<!--
  A sequence listing and/or any related table(s) - see Supplemental Box Relating
  to Sequence Listing.
-->
```

```
<!ELEMENT sequence-list-basis (material-of-sequence-list , presentation-of-
statements? , additional-info?)>

<!--
(PCT/ISA/210 Box No. I Nucleotide and/or amino acid sequence(s)

(Continuation of item1.b of the first sheet))
  1. With regard to any nucleotide and/or amino acid sequence disclosed in the
    international application and necessary to the claimed invention,
    the international search was carried out on the basis of:

(PCT/ISA/237 Box No. I Basis of this opinion)
  2. With regard to any nucleotide and/or amino acid sequence disclosed in the
    international application and necessary to the claimed invention,
    this opinion has been established on the basis of:

(PCT/IPEA/409 Supplemental Box Relating to Sequence Listing)
  1. With regard to any nucleotide and/or amino acid sequence disclosed in the
    international application and necessary to the claimed invention,
    this report was established on the basis of:

(PCT/IPEA/408 Supplemental Box Relating to Sequence Listing)
  1. With regard to any nucleotide and/or amino acid sequence disclosed in the
    international application and necessary to the claimed invention,
    this opinion was established on the basis of:

-->
<!ELEMENT material-of-sequence-list (sequence-listing-material-type , sequence-
listing-material-format , sequence-listing-filing-time)>

<!--
  Additional information.
  (ST.32:B513)

-->
<!ELEMENT additional-info (p+)>

<!--
  Definition description

-->
<!ELEMENT dd (#PCDATA | b | i | u | o | sup | sub | smallcaps | br | pre | patcit |
nplcit | bio-deposit | crossref | figref | img | ul | ol | chemistry | maths)*>

<!--
  This is for a simple mathematical or chemical formulae.

-->
<!ELEMENT formula-text (#PCDATA | b | i | u | o | sup | sub | smallcaps)*>

<!--
  Identifies the period of time during which the depository must be able to furnish
  samples of the biological material.

-->
<!ELEMENT term (#PCDATA)>

<!--
  Biological accession number:
  (ST.32:B831)
  The identification assigned to the biological material by the depository

-->
<!ELEMENT bio-accno (#PCDATA)>
```

```
<!--
  Information regarding the facility storing the biological deposit.
  (ST.32:B832)

-->
<!ELEMENT depositary (#PCDATA | address)*>

<!--
  Other citations - free form

-->
<!ELEMENT othercit (#PCDATA | b | i | u | o | sup | sub)*>

<!--
  Online citation
  Revised according to ISO-690-2 - Electronic documents and parts thereof.
  Please refer to this standard for definitions and examples.
  See: http://www.nlc-bnc.ca/iso/tc46sc9/standard/690-2e.htm#Contents
  The tagging in fact is a mixture of article and book tags together with
  specific electronic source tags.
  'Online' is taken to mean any kind of electronic documentation:
  databases, internet, CD-Roms, DVD, email, etc

EXAMPLES:;

  Kirk-Othmer Encyclopedia of Chemical Technology [online].
  3rd ed. New York : John Wiley, 1984 [cited 3 January 1990].
  Available from: DIALOG Information Services, Palo Alto (Calif.).

  <nplcit id='ncit1' num='0001' type='E' medium='online'>
    <online>
      <online-title>Kirk-Othmer Encyclopedia of Chemical Technology
      </online-title>
      <edition>3rd ed.</edition>
      <imprint>
        <address>
          <text>New York</text>
        </address>
        <name>John Wiley</name>
        <pubdate>19840000</pubdate>
      </imprint>
      <avail>dialog information services, palo alto (calif.).</avail>
      <datecit>
        <date>19900103</date>
      </datecit>
    </online>
  </nplcit>

* Article on Internet:
  Clark, Carol. On the Threshold of a Brave New World.
  In Blueprint of the Body [online].
  CNN.com, 2000. [cited 24 August 2000;10:25 EST]. In-depth specials.
  Available from: [http://www.cnn.com/SPECIALS/2000/genome/story/overview/]

  <nplcit id='ncit1' num='0002' type='E' medium='online'>
    <online>
      <author>
        <name>Clark, Carol</name>
      </author>
      <online-title>On the Threshold of a Brave New World</online-title>
      <imprint>
        <name>CNN.com, 2000</name>
      </imprint>
      <series>
        <text>In-depth specials</text>
      </series>
    </online>
  </nplcit>
```



```
<avail>http://www.cnn.com/SPECIALS/2000/genome/story/</avail>
<datecit>
  <date>20000824; 10:25 est</date>
</datecit>
</online>
</nplcit>
```

* Personal communication (e-mail)

Thacker, Jane. MPEG-21 project stream on digital item identification [online].
Message to: [iso.tc46.sc9@nlc-bnc.ca]. 3 October 2000; 13:33 EST [cited 6
October 2000; 13:10 EST].
Message-ID: [002f01c02d60\$051a64a0\$22a2580c@vaio]. Personal communication.

```
<nplcit id='ncit3' num='0003' type='E' medium='online'>
  <online>
    <author>
      <name>Thacker, Jane</name>
    </author>
    <online-title>MPEG-21 project stream on digital item identification
    </online-title>
    <subname>
      <name>Message to: <iso.tc46.sc9@nlc-bnc.ca></name>
    </subname>
    <pubdate>3 October 2000; 13:33 EST</pubdate>
    <notes>Personal communication</notes>
    <avail>Message-ID: <002f01c02d60$051a64a0$22a2580c@vaio></avail>
    <datecit><date>6 october 2000; 13:10 EST</date></datecit>
  </online>
</nplcit>
```

-->

```
<!ELEMENT online (text | (author* , online-title* , hosttitle? , subname* ,
edition? , (serial | book)? , imprint? , pubdate? , vid? , ino? , history? ,
series? , hostno? , absno? , location? , notes? , avail* , class* , keyword* ,
cpyrt? , doi? , issn? , isbn? , datecit? , srchterm* , srchdate? , refno*))>
```

<!--

Date of search/retrieval YYYYMMDD

-->

```
<!ELEMENT srchdate (date)>
```

<!--

Search terms

-->

```
<!ELEMENT srchterm (#PCDATA)>
```

<!--

Date cited - date on which the citation was cited.
May be different from srchdate below

-->

```
<!ELEMENT datecit (date)>
```

<!--

Availability and access - REQUIRED use for URL, online database, ftp address,
email, etc. ;
e.g., Available from Internet: <http://www.epoline.org>
Available from DIALOG Information Systems, Palo Alto (Calif.)

-->

```
<!ELEMENT avail (#PCDATA)>
```

```
<!--
  Numeration within host document
-->
<!ELEMENT hostno (#PCDATA)>

<!--
  History of the article (not serial)
-->
<!ELEMENT history (text | (received | accepted | revised | misc))>

<!--
  Miscellaneous information relating to the history of the article; see ISO 12083
-->
<!ELEMENT misc (#PCDATA | date)*>

<!--
  Date article was revised
-->
<!ELEMENT revised (date)>

<!--
  Date article was accepted
-->
<!ELEMENT accepted (date)>

<!--
  Date article was received
-->
<!ELEMENT received (date)>

<!--
  Title of the host document/database
-->
<!ELEMENT hosttitle (#PCDATA)>

<!--
  The title of the electronic resource
-->
<!ELEMENT online-title (#PCDATA)>

<!--
  Article citations within a 'host' document

  After patent citations the most common citations are articles within serials
  (periodicals, magazines), books and electronic (eg. internet) sources.
  This is a very complex and varied area to standardise. The tag set below is drawn
  from a number of sources as is the order of the tags (which in any case can be
  changed depending on the stylesheet used).;

  The order of tags is that of WIPO ST.14 / ISO 690 layout.
  DROP, J.G.  Integrated Circuit Personalization at the Module Level. IBM Tech.
  Dis. Bull.  October 1974, Vol. 17, No. 5, p. 1344 and 1345.
  [XPnnnnnnnnnnn].
```

```
<nplcit id='ncit1' num='0012' type='S' file='XP1234456'>
  <article>
    <author>
      <name>DROP, J.G.</name>
    </author>
    <atl>Integrated Circuit Personalization at the Module Level</atl>
    <serial>
      <sertitle>IBM Tech. Dis. Bull.</sertitle>
      <pubdate>19741000</pubdate>
      <vid>17</vid>
      <ino>5</ino>
    </serial>
    <location>
      <pp>1344 and 1345</pp>
    </location>
    <refno id='XP1'>XP1234456</refno>
  </article>
</nplcit>
```

Note: it is NOT expected that the applicant will create the tagged data
- it can be generated from a 'pull down' data entry form (eg. in Word) or
generated from internal SR databases

```
-->
<!ELEMENT article (text | (author* , atl? , subname* , (serial | book) , absno? ,
location? , class* , keyword* , cpyrt? , artid? , refno*))>
```

```
<!--
  Article unique ID - assigned by a publisher to an article
-->
```

```
-->
<!ELEMENT artid (#PCDATA)>
```

```
<!--
  Book citation
  In the order specified by WIPO ST.14 and ISO 690 and AACR2 rules for layout
-->
```

WALTON, Herrmann. Microwave quantum theory.
London : Sweet and Maxwell, 1973. ISBN 0123456789.
Vol.2, p. 138 to 192.

```
<nplcit id='ncit12' num='0013' type='b'>
  <book>
    <author>
      <name>WALTON, Herrman</name>
    </author>
    <book-title>Microwave quantum theory</book-title>
    <imprint>
      <address>
        <text>London</text>
      </address>
      <name>Sweet and Maxwell</name>
      <pubdate>19730000</pubdate>
    </imprint>
    <location>
      <pp>138 to 192</pp>
    </location>
    <isbn>0-1234-568-9</isbn>
  </book>
</nplcit>
```

```
-->
<!ELEMENT book (text | (author* , (book-title+ | conference) , (subtitle? ,
subname* , edition? , imprint? , vid? , ino? , descrip? , series? , notes? , absno?
, location* , pubid? , bookno? , class* , keyword* , cpyrt? , doi? , issn? , isbn*
, refno*))>
```

```
<!--  
  Keyword; e.g., from a Thesaurus or class. scheme  
  (ST.32:B550)  
  
-->  
<!ELEMENT keyword (#PCDATA)>  
  
<!--  
  Book number  
  
-->  
<!ELEMENT bookno (#PCDATA)>  
  
<!--  
  Location within the cited work  
  
-->  
<!ELEMENT location (text | (serpart? , sersect? , chapter? , pp? , column? , para?  
, line?))>  
  
<!--  
  Referenced line within cited work  
  
-->  
<!ELEMENT line (#PCDATA | linef | line1)*>  
  
<!--  
  Cited document line, last  
  
-->  
<!ELEMENT line1 (#PCDATA)>  
  
<!--  
  Cited document line, first  
  
-->  
<!ELEMENT linef (#PCDATA)>  
  
<!--  
  Referenced paragraph within cited work  
  
-->  
<!ELEMENT para (#PCDATA | paraf | paral)*>  
  
<!--  
  Cited paragraph, last  
  
-->  
<!ELEMENT paral (#PCDATA)>  
  
<!--  
  Cited paragraph, first  
  
-->  
<!ELEMENT paraf (#PCDATA)>  
  
<!--  
  Cited document column numbers  
  
-->  
<!ELEMENT column (#PCDATA | colf | coll)*>
```

```
<!--  
  Cited document column, last  
-->  
<!ELEMENT coll (#PCDATA)>  
  
<!--  
  Cited document column, first  
-->  
<!ELEMENT colf (#PCDATA)>  
  
<!--  
  Cited document page numbers  
-->  
<!ELEMENT pp (#PCDATA | ppf | ppl)*>  
  
<!--  
  Cited document page, last  
-->  
<!ELEMENT ppl (#PCDATA)>  
  
<!--  
  Cited document page , first  
-->  
<!ELEMENT ppf (#PCDATA)>  
  
<!--  
  Chapter; e.g., in a book.  Example: Chapter 2  
-->  
<!ELEMENT chapter (#PCDATA)>  
  
<!--  
  Serial section  
-->  
<!ELEMENT sersect (#PCDATA)>  
  
<!--  
  Part within a serial  
-->  
<!ELEMENT serpart (#PCDATA)>  
  
<!--  
  Abstract number  
-->  
<!ELEMENT absno (#PCDATA)>  
  
<!--  
  Series statement  
-->  
<!ELEMENT series (text | (mst , msn? , issn?))>
```

```
<!--  
  Monographic series number  
-->  
<!ELEMENT msn (#PCDATA)>  
  
<!--  
  Monographic series title  
-->  
<!ELEMENT mst (#PCDATA)>  
  
<!--  
  Edition statement  
  (ST.32:B516)  
-->  
<!ELEMENT edition (#PCDATA)>  
  
<!--  
  Book subtitle  
-->  
<!ELEMENT subtitle (#PCDATA)>  
  
<!--  
  CONFERENCE GROUP / CITATION  
  There is no standard way of citing conference proceedings; date of the conf. may  
  come before or after place, for example. The tags are specified in a set order  
  where it is not possible or correct then simply use <text>  
-->  
<!ELEMENT conference (text | (conftitle , confdate? , confno? , confplace? ,  
  confsponsor*))>  
  
<!--  
-->  
<!ELEMENT confdate (date | (sdate , edate))>  
  
<!--  
  Conference sponsor  
-->  
<!ELEMENT confsponsor (#PCDATA | addressbook)*>  
  
<!--  
  Conference place  
-->  
<!ELEMENT confplace (#PCDATA | address)*>  
  
<!--  
  Conference number  
-->  
<!ELEMENT confno (#PCDATA)>
```

```
<!--  
  Conference title  
-->  
<!ELEMENT conftitle (#PCDATA)>  
  
<!--  
  The title of the cited book  
-->  
<!ELEMENT book-title (#PCDATA)>  
  
<!--  
  Serial citation data:  
  This describes the volume or issue as a whole and not a particular article within  
  it.  
-->  
<!ELEMENT serial (sertitle , alttitle? , subname* , issue? , imprint? , pubdate? ,  
descrip? , notes? , pubid? , vid? , ino? , doi? , issn? , isbn? , cpyrt?)>  
  
<!--  
  Copyright info. Copyright of publisher of serial  
-->  
<!ELEMENT cpyrt (#PCDATA)>  
  
<!--  
  International Standard Book Number  
-->  
<!ELEMENT isbn (#PCDATA)>  
  
<!--  
  International Standard Serial Number  
-->  
<!ELEMENT issn (#PCDATA)>  
  
<!--  
  
-->  
<!ELEMENT doi (#PCDATA)>  
  
<!--  
  Issue number  
-->  
<!ELEMENT ino (#PCDATA)>  
  
<!--  
  Volume id/number  
-->  
<!ELEMENT vid (#PCDATA)>  
  
<!--  
  Publisher's unique id  
-->
```

```
<!ELEMENT pubid (#PCDATA)>

<!--
  Notes about the journal; e.g. Continues Journal of XYZ 1910-1998, published in
  French and English, etc.
-->
<!ELEMENT notes (#PCDATA)>

<!--
  Physical description - generally NOT used in citations in pats; e.g., v., 27cm
-->
<!ELEMENT descrip (#PCDATA)>

<!--
  Imprint:
  Publication / creation data
  Place of publication : publisher, date(s) of publication usually only date of
  publication is used for journal citations
-->
<!ELEMENT imprint (text | (address? , name , pubdate*))>

<!--
  Publication date used in npl citations
-->
<!ELEMENT pubdate (#PCDATA | sdate | edate | time)*>

<!--
  Time; format HHMM
-->
<!ELEMENT time (#PCDATA)>

<!--
  End date used in pubdate
-->
<!ELEMENT edate (#PCDATA)>

<!--
  Start date used in pubdate
-->
<!ELEMENT sdate (#PCDATA)>

<!--
  Issue designation; e.g., Annual, 1971-, 1890-1972
-->
<!ELEMENT issue (#PCDATA)>

<!--
  Alternate title for serial; e.g. BMJ = British Medical Journal
-->
<!ELEMENT alttitle (#PCDATA)>
```



```
<!--
  Serial title
-->
<!ELEMENT sertitle (#PCDATA)>

<!--
  Article title
-->
<!ELEMENT atl (#PCDATA)>

<!--
  Relevant passage group within patent; most used in search reports
  - use text in abstract, description and claims
-->
<!ELEMENT rel-passage (text | (passage+ , (category , rel-claims?)*))>

<!--
  Relevant claims
-->
<!ELEMENT rel-claims (#PCDATA)>

<!--
  Category
  (ST.32:B563)
-->
<!ELEMENT category (#PCDATA)>

<!--
  Passage within the cited patent literature
-->
<!ELEMENT passage (#PCDATA)>

<!--
  br - break, line break within a paragraph
-->
<!ELEMENT br EMPTY>

<!--
  Bold formatting for text
-->
<!ELEMENT b (#PCDATA | i | u | o | smallcaps | sup | sub)*>

<!--
  Italic formatting for text
-->
<!ELEMENT i (#PCDATA | b | u | o | smallcaps | sup | sub)*>

<!--
  Small capitals
-->
<!ELEMENT smallcaps (#PCDATA | b | u | i | o)*>
```

```
<!--
  Subscripted text
-->
<!ELEMENT sub (#PCDATA | b | u | i | o | sup2 | sub2)*>

<!--
  Superscripted text
-->
<!ELEMENT sup (#PCDATA | b | u | i | o | sup2 | sub2)*>

<!--
  Subscripted text
-->
<!ELEMENT sub2 (#PCDATA | b | u | i | o)*>

<!--
  Superscripted text
-->
<!ELEMENT sup2 (#PCDATA | b | u | i | o)*>

<!--
(PCT/ISA/210 and PCT/ISA/237 )
  In addition, in the case that more than one version or copy of a sequence
  listing and/or table relating thereto has been filed or furnished,
  the required statements that the information in the subsequent or additional
  copies is identical to that in the application as filed or does not go beyond
  the application as filed, as appropriate, were furnished.

(PCT/IPEA/409 and PCT/IPEA/408 )
  In addition, in the case that more than one version or copy of a sequence
  listing and/or table(s) relating thereto has been filed or furnished,
  the required statements that the information in the subsequent or additional
  copies is identical to that in the application as filed or does not go beyond
  the application as filed, as appropriate, were furnished.
-->
<!ELEMENT presentation-of-statements EMPTY>

<!--
  Search request number eg. on PCT Form 201.
-->
<!ELEMENT srep-request-number (#PCDATA)>

<!--
  Date of request for search eg. on PCT Form 201
-->
<!ELEMENT srep-request-date (date)>

<!--
  The name of the applicant (without address information)
  (ST.32:B711)
-->
<!ELEMENT applicant-name (%name_group;)>
```

```
<!--
  Where the international application claims the priority of several earlier
  applications, the filing date of the earliest application whose priority is
  claimed must be indicated as the priority date.
-->
<!ELEMENT date-of-earliest-priority (date)>

<!--
  Date: components of a date.  Format: YYYYMMDD
-->
<!ELEMENT date (#PCDATA)>

<!--
  Document kind code; e.g., A1
  (INID 13, ST.32:B130)
-->
<!ELEMENT kind (#PCDATA)>

<!--
  The number of the referenced patent (or application) document
-->
<!ELEMENT doc-number (#PCDATA)>

<!--
  Applicant's or agent's file reference, if desired, 12 characters maximum
-->
<!ELEMENT file-reference-id (#PCDATA)>

<!--
  Address used for general correspondence
-->
<!ELEMENT correspondence-address (customer-number | addressbook+)>

<!--
  Customer number for agents by office
-->
<!ELEMENT customer-number (#PCDATA)>

<!--
  Descriptive text
-->
<!ELEMENT dtext (#PCDATA)>

<!--
  Universal Resource Locator; e.g. www.wipo.int
-->
<!ELEMENT url (#PCDATA)>

<!--
  Fax number
```

```
-->
<!ELEMENT fax (#PCDATA)>

<!--
  Telephone number
-->
<!ELEMENT phone (#PCDATA)>

<!--
  Electronic address use for other than email
-->
<!ELEMENT ead (#PCDATA)>

<!--
  Address components:
  Address formats differ from country to country
  If no structure possible use text
-->
<!ELEMENT address (%address_group;)>

<!--
  If no structure is possible, enter text (without markup)
-->
<!ELEMENT text (#PCDATA)>

<!--
  Country: use ST.3 country code; e.g. DE, FR, GB, NL, etc.
  Also includes EP, WO
-->
<!ELEMENT country (#PCDATA)>

<!--
  Postal code or zip code
-->
<!ELEMENT postcode (#PCDATA)>

<!--
  Region of country; e.g., state, province, etc.
-->
<!ELEMENT state (#PCDATA)>

<!--
  County, parish, department, etc (mainly UK, USA)
-->
<!ELEMENT county (#PCDATA)>

<!--
  City or town name
-->
<!ELEMENT city (#PCDATA)>
```

```
<!--  
  Street may contain house number or name  
-->  
<!ELEMENT street (#PCDATA)>  
  
<!--  
  Building information in address; e.g., Hoffman building  
-->  
<!ELEMENT building (#PCDATA)>  
  
<!--  
  Address floor; e.g., 10th  
-->  
<!ELEMENT address-floor (#PCDATA)>  
  
<!--  
  Address room; e.g., Room 55B  
-->  
<!ELEMENT room (#PCDATA)>  
  
<!--  
  Post Office Box number  
-->  
<!ELEMENT pobox (#PCDATA)>  
  
<!--  
  Organizational mail code  
-->  
<!ELEMENT mailcode (#PCDATA)>  
  
<!--  
  Address, fifth line  
-->  
<!ELEMENT address-5 (#PCDATA)>  
  
<!--  
  Address, fourth line  
-->  
<!ELEMENT address-4 (#PCDATA)>  
  
<!--  
  Address, third line  
-->  
<!ELEMENT address-3 (#PCDATA)>  
  
<!--  
  Address, second line  
-->  
<!ELEMENT address-2 (#PCDATA)>
```

```
<!--  
  Address, first line  
-->  
<!ELEMENT address-1 (#PCDATA)>  
  
<!--  
  Registered number  
-->  
<!ELEMENT registered-number (#PCDATA)>  
  
<!--  
  Synonym  
-->  
<!ELEMENT synonym (#PCDATA)>  
  
<!--  
  Department, division, section, etc. name  
-->  
<!ELEMENT department (#PCDATA)>  
  
<!--  
  Organisation name or company name  
-->  
<!ELEMENT orgname (#PCDATA)>  
  
<!--  
  Role; e.g., President, Chairman, etc.  
-->  
<!ELEMENT role (#PCDATA)>  
  
<!--  
  SDOBI : Individual id  
-->  
<!ELEMENT iid (#PCDATA)>  
  
<!--  
  Name suffix (e.g., II, Jr., Dip., Ing., BA, etc.)  
-->  
<!ELEMENT suffix (#PCDATA)>  
  
<!--  
  Second last name (mother's family surname), for some countries (such as Spain) is  
  legally mandatory.  
-->  
<!ELEMENT second-last-name (#PCDATA)>  
  
<!--  
  First last name (father's family surname), for some countries (such as Spain) is  
  legally mandatory.  
-->  
<!ELEMENT first-last-name (#PCDATA)>
```

```
<!--  
  Middle name(s) or initial(s)  
-->  
<!ELEMENT middle-name (#PCDATA)>  
  
<!--  
  First or given name(s), initial(s)  
-->  
<!ELEMENT first-name (#PCDATA)>  
  
<!--  
  Last, family, surname  
-->  
<!ELEMENT last-name (#PCDATA)>  
  
<!--  
  Title: e.g., Mr., Mrs., Dr. etc  
-->  
<!ELEMENT prefix (#PCDATA)>
```

5.10 Rapport préliminaire international sur la brevetabilité

```
<?xml version='1.0' encoding='UTF-8' ?>  
  
<!ENTITY % name_group "((name | (prefix? , (last-name | orgname) , first-name? ,  
middle-name? , suffix? , iid? , role? , orgname? , department? , synonym*)) ,  
registered-number?)">  
  
<!ENTITY % address_group "((address-1? , address-2? , address-3? , address-4? ,  
address-5? , mailcode? , pobox? , room? , address-floor? , building? , street? ,  
city? , county? , state? , postcode? , country) | text)">  
  
<!--  
*****  
* IPRP (International Preliminary Report on Patentability) v1.2 2012 JULY *  
*****  
* PUBLIC "-//WIPO//DTD IPRP 1.2//EN" "iprp-v1-2.dtd" *  
*****  
* https://www.wipo.int/pct-safe/en/resources/1.15/iprp-v1-2.dtd *  
*****  
* contacts: *  
* WIPO: Yuya USHIDA; yuya.ushida@wipo.int *  
*****  
* revision history *  
*****  
MO: 01/07/08 incorporated changes from PFCs:  
..changed version number from v1.1 to v1.2  
..added attribute 'email-purpose' to email (PFC08/006)  
MO: 01/01/07 incorporated changes from PFCs:  
..changed version number from v1.0 to v1.1  
..implementation of PFC06/001  
..added element 'sup' to u (PFC06/003)  
..added element 'sup' to i (PFC06/003)  
..added element 'sup' to b (PFC06/003)  
..added element 'sub' to u (PFC06/003)  
..added element 'sub' to i (PFC06/003)  
..added element 'sub' to b (PFC06/003)
```

```

..added element 'o' to invention-title, b, i, sup, sup2, sub, sub2, heading, claim-
text,
  p, small-caps, dt, dd, li, crossref, figref, othercit, statement (PFC06/003)
..added element 'address-4' to address (PFC06/005)
..added element 'address-5' to address (PFC06/005)
2005/01/01
..released version number as v1.0
*****

*****
* SECTION I - DECLARATION, ENT. REFS, ISO sets, etc *
*****

-->
<!--
import character entity set. Download from:
http://pcteasy.wipo.int/efiling_standards/schemaDocs/wipo.ent

Note that nsgmls-based parsers (SP, Near and Far Designer, etc.)
may not be able to process this file for reasons described below
in MathML comments.
-->
<!--ENTITY % wipo PUBLIC "-//WIPO//ENTITIES WIPO 1.0//EN" "wipo.ent">
%wipo;-->

<!--
*****
* INCLUDE COMPONENT DTDS (MATHML, OASIS EXCHANGE TABLE MODEL *
*****
-->
<!-- DTD MathML2: maintained by W3C. Download from:
http://www.w3.org/TR/MathML2/DTD-MathML-20010221.zip

If using nsgmls-based parser (SP, Near and Far Designer, etc.)
uncomment 'mathml-charent-module' switch below or replace the
referenced MathML2 DTD with the version downloadable from:
http://www.w3.org/Math/DTD/dtd-sp.zip

This notice copied from: http://www.w3.org/Math/DTD/

"DTD for nsgmls
Some systems (including the popular nsgmls parser) may not be able
to process files using 'plane 1' characters which have Unicode
numbers higher than #xFFFF. The versions of the DTD provided here
incorporate the modifications mentioned above, but the high
characters are replaced by the equivalent mchar construct
<mchar name=".." /> this allows the DTD to be read and for MathML
files to be validated using such systems."
-->

<!--ENTITY % mathml-charent.module "IGNORE" -->
<!ENTITY % MATHML.prefixed "IGNORE">
<!ENTITY % MATHML.xmlns "">

<!-- import MathML2 dtd -->
<!ENTITY % mathml2 PUBLIC "-//W3C//DTD MathML 2.0//EN" "mathml2.dtd">
%mathml2;

<!-- DTD OASIS Open XML Exchange Table Model.
Maintained by OASIS; download from:
http://www.oasis-open.org/specs/soextblx.dtd
Note that the FPI in soextblx.dtd refers to itself as 'calstblx'.
That convention has been followed here.
-->
<!-- create content for title element in table -->
<!ENTITY % title "<!ELEMENT title (#PCDATA | b | i | u | sup | sub | smallcaps)* >
">
%title;

<!-- override OASIS Exchange <entry> model -->
<!ENTITY % tbl.entry.mdl "(#PCDATA | b | i | u | sup | sub | smallcaps | br

```



```

| patcit | nplcit | bio-deposit | crossref | img
| dl | ul | ol | chemistry | maths)* ">

<!-- import OASIS Exchange model -->
<!ENTITY % calstblx PUBLIC "-//OASIS//DTD XML Exchange Table Model 19990315//EN"
"soextblx.dtd">

%calstblx;

<!--
*****
* SECTION II - DTD
*****

This DTD is based on WIPO PCT IPEA Form 409
INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
and
Form PCT/IPEA/416 (January 2004)

NOTIFICATION OF TRANSMITTAL OF
INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)
* see: http://www.wipo.int/pct/en/forms/ipea/index.htm
*****
Notes:

Attributes:
  id          = unique id
  lang        = language of application - use ISO639 language code
  dtd-version = dtd version number
  file        = filename of the whole application
  status      = status of the application; values: new = new application
  iprp-office = WIPO ST.3 code for application
  date-produced = YYYYMMDD e.g, 20011230

-->
<!ELEMENT iprp (doc-page+ | (iprp-info , iprp-written-opinion? , iprp-annex* , pct-
art34* , office-specific-iprp-data*))>

<!ATTLIST iprp lang          CDATA #IMPLIED
               dtd-version  CDATA #IMPLIED
               file          CDATA #IMPLIED
               status        CDATA #IMPLIED
               date-produced CDATA #IMPLIED
               iprp-office   CDATA #REQUIRED
               id            IDREF #IMPLIED >

<!--
Office is the ST.3 country code, including the regional authorities.
Office-dtd is the file which contains the DTD for the office-specific elements.

-->
<!ELEMENT office-specific-iprp-data EMPTY>

<!ATTLIST office-specific-iprp-data office CDATA #REQUIRED
               office-dtd CDATA #REQUIRED
               file        CDATA #REQUIRED
               id          ID   #IMPLIED
               lang        CDATA #IMPLIED
               status      CDATA #IMPLIED >

<!ELEMENT pct-art34-doc EMPTY>

<!ATTLIST pct-art34-doc file CDATA #REQUIRED
               lang        CDATA #IMPLIED
               status      CDATA #IMPLIED
               carriers     (internal-electronic |
                           external-electronic |
                           paper ) #IMPLIED
               file-type   (xml | pdf | txt | tif | zip | jpg )
#REQUIRED >

```

```
<!ELEMENT iprp-annex-doc EMPTY>

<!ATTLIST iprp-annex-doc file          CDATA #REQUIRED
                        lang            CDATA #IMPLIED
                        status          CDATA #IMPLIED
                        carriers        (internal-electronic |
                                        external-electronic |
                                        paper ) #IMPLIED
                        file-type       (xml | pdf | txt | tif | zip | jpg )
#REQUIRED >

<!--
PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (ISA)
(PCT Rule 43bis.1)
DRAFT FORM PCT/ISA/237)

(The following data is taken from srep-info area):

- Correspondence address
- Date of mailing (day/month/year)
- Applicant s or agent s file reference
- International application No.
- International filing date (day/month/year)
- Priority date (day/month/year)
- International Patent Classification (IPC) or both national classification and
  IPC
- Applicant name

(followed by the text:)

FOR FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will,
except in certain cases where this Authority does not also act as International
Preliminary Examining Authority, be considered to be a written opinion of the
International Preliminary Examining Authority. In this case, the applicant is
invited to submit to the International Preliminary Examining Authority a written
reply together, where appropriate, with amendments before the expiration of
3 months from the date of mailing of Form PCT/ISA/220 or before the expiration
of 22 months from the priority date, whichever expires later.

-->
<!ELEMENT iprp-written-opinion (doc-page+ | (basis-of-iprp-opinion , priority-
opinion? , non-establishment-of-opinion? , unity-of-invention? , pct-rule66-2-
statement , opinion-citations , defect-in-application? , observation-on-
application? , text*))>

<!ATTLIST iprp-written-opinion consideration-srep-opinion      (yes | no )
#REQUIRED
                        final-date          CDATA #REQUIRED
                        number-of-times      CDATA #REQUIRED >

<!--
(PCT/ISA/237 - Box II) - Priority

-->
<!ELEMENT priority-opinion (earlier-appl? , claim-invalid? , additional-info?)>

<!ATTLIST priority-opinion valid CDATA #IMPLIED >

<!--
Form PCT/IPEA/409
IPRP identification information group element

-->
<!ELEMENT iprp-info (correspondence-address? , file-reference-id? , application-
reference+ , date-of-earliest-priority? , classification-ipc? , classification-
national? , applicant-name , iprp-sheet-of-annexes , iprp-admin? , iprp-basis ,
iprp-priority? , non-establishment-of-opinion? , iprp-unity-of-invention , pct-
```

```
art35-2-statement , iprp-citations? , defect-in-application? , observation-on-
application? , text*)>

<!ATTLIST iprp-info total-page-count CDATA #IMPLIED >

<!--
Rule 70.10: Any published application ... shall be accompanied by ...
its claimed priority date (if any).
In respect of the priority date of any such document, the report may indicate
that, in the opinion of the International Preliminary Examining Authority,
such date has not been validly claimed.
-->
<!ELEMENT priority-date (#PCDATA)>

<!ATTLIST priority-date priority-valid (yes | no ) 'yes' >

<!--
Reference to other documents, either patent literature (patcit)
or non-patent literature (nplcit)

Recommended id = 'cit0001', 'cit0002', etc.
-->
<!ELEMENT citation ((patcit | nplcit) , (rel-passage* , category* , rel-claims*)* ,
corresponding-docs* , classification-ipc? , classifications-ipcr? , classification-
national? , doi?)>

<!ATTLIST citation id ID #IMPLIED
srep-phase CDATA #IMPLIED >

<!ELEMENT classifications-ipcr (classification-ipcr+)>

<!ATTLIST classifications-ipcr id ID #IMPLIED >

<!--
International Patent Classification (IPC) data;
-->
<!ELEMENT classification-ipcr ((ipc-version-indicator , classification-level? ,
section , class , subclass , main-group? , subgroup? , symbol-position? ,
classification-value? , action-date? , generating-office? , classification-
status? , classification-data-source?) | text)>

<!ATTLIST classification-ipcr id ID #IMPLIED
sequence CDATA #IMPLIED >

<!--
(PCT/ISA/237 ) - Box No. IV Lack of unity of invention

(3) This Authority considers that the requirement of unity of invention in
accordance with Rule 13.1, 13.2 and 13.3 is

complied with
not complied with for the following reasons
-->
<!ELEMENT compliance-unity-invention (p*)>

<!ATTLIST compliance-unity-invention unity-complied (yes | no ) #REQUIRED >

<!--
In response to the invitation (Form PCT/ISA/206) to pay additional fees the
applicant has:

Attribute values:

(PCT/ISA/237 )
1 = paid additional fees
2 = paid additional fees under protest
```

```
3 = not paid additional fees
4 = not used

(PCT/IPEA/409 and PCT/IPEA/408 )
1 = restricted the claims
2 = paid additional fees
3 = paid additional fees under protest
4 = neither restricted nor paid additional fees

-->
<!ELEMENT invitation-pay-additional-fees EMPTY>

<!ATTLIST invitation-pay-additional-fees  unity-fee-code  (1 | 2 | 3 | 4 | 5 )
#REQUIRED >

<!--
(PCT/ISA/237 and PCT/IPEA/408 )
The tables related to the nucleotide and/or amino acid sequence listing, if in
computer readable form only, do not comply with the technical requirements
provided for in Annex C-bis of the Administrative Instructions.

(PCT/IPEA/409 )
The tables related to the nucleotide and/or amino acid sequence listing do not
comply with the technical requirements provided for in Annex C-bis of the
Administrative Instructions in that the computer readable form:

-->
<!ELEMENT annex-c-bis EMPTY>

<!ATTLIST annex-c-bis  e-tables-missing  (yes | no ) #REQUIRED
                        format-error      (yes | no ) #REQUIRED >

<!--
The nucleotide and/or amino acid sequence listing does not comply with the
standard provided for in Annex C of the Administrative Instructions in that:

-->
<!ELEMENT annex-c EMPTY>

<!ATTLIST annex-c  e-tables-missing  (yes | no ) #REQUIRED
                    format-error      (yes | no ) #REQUIRED
                    no-payment        (yes | no ) #REQUIRED >

<!--
(PCT/ISA/237 - Box II)

Priority

1. The following document has not yet been furnished:

Attribute value:
1 = copy of the earlier application whose priority has been claimed
   (Rules 43bis.1 and 66.7(a)).
2 = translation of the earlier application whose priority has been claimed
   (Rules 43bis.1 and 66.7(b)).

Consequently it has not been possible to consider the validity of the priority
claim. This opinion has nevertheless been established on the assumption that the
relevant date is the claimed priority date.

-->
<!ELEMENT earlier-appl EMPTY>

<!ATTLIST earlier-appl  prio-code  (1 | 2 ) #REQUIRED >

<!--
1. With regard to the language, this report is based on the international
application in the language in which it was filed, unless otherwise indicated
under this item.
```

This report is based on translations from the original language into the following language _____ , which is the language of a translation furnished for the purposes of:

international search (under Rules 12.3 and 23.1(b))
 publication of the international application (under Rule 12.4)
 international preliminary examination (under Rules 55.2 and/or 55.3)

-->

<!ELEMENT basis-language-for-examination EMPTY>

<!ATTLIST basis-language-for-examination lang CDATA #REQUIRED
 examin-lang (originally-filed |
 publication |
 translation-isa |
 translation-iprp)

'originally-filed' >

<!--

c. time of filing/furnishing

-->

<!ELEMENT sequence-listing-filing-time (#PCDATA)>

<!ATTLIST sequence-listing-filing-time in-application (yes | no)
 #REQUIRED
 together-with-application (yes | no)
 #REQUIRED
 furnished-for-search (yes | no)
 #REQUIRED
 amendment (yes | no)
 #IMPLIED >

<!--

b. format of material

-->

<!ELEMENT sequence-listing-material-format EMPTY>

<!ATTLIST sequence-listing-material-format paper (yes | no) #REQUIRED
 electronic (yes | no) 'yes' >

<!--

a. type of material

-->

<!ELEMENT sequence-listing-material-type EMPTY>

<!ATTLIST sequence-listing-material-type sequence-listing (yes | no) 'yes'
 table (yes | no)
 #REQUIRED >

<!--

The drawings:

pages _____

as originally filed/furnished pages* _____

received by this Authority on _____

pages* _____

received by this Authority on _____

-->

<!ELEMENT iprp-basis-drawings (text | (rel-pages+ | rel-figures+))>

<!ATTLIST iprp-basis-drawings basis (originally-filed |
 with-demand |
 with-letter) #REQUIRED
 date-letter-received CDATA #IMPLIED >

<!--

The claims:

```

pages _____
as originally filed/furnished pages* _____
as amended (together with any statement) under Article 19 pages* _____
received by this Authority on _____
pages* _____
received by this Authority on _____

-->
<!ELEMENT iprp-basis-claims (text | claim-num+)>

<!ATTLIST iprp-basis-claims basis (originally-filed |
                                   under-art19 |
                                   with-demand |
                                   with-letter ) #REQUIRED
                                   date-letter-received CDATA #IMPLIED >

<!--
The description:
  pages _____
  as originally filed/furnished pages* _____
  received by this Authority on _____
  pages* _____
  received by this Authority on _____

-->
<!ELEMENT iprp-basis-description (text | (rel-pages | rel-para)+)>

<!ATTLIST iprp-basis-description basis (originally-filed |
                                       with-demand |
                                       with-letter ) #REQUIRED
                                       date-letter-received CDATA #IMPLIED >

<!--
A signature represented by electronic means

-->
<!ELEMENT electronic-signature (basic-signature | enhanced-signature)>

<!ATTLIST electronic-signature date CDATA #REQUIRED
                               place-signed CDATA #IMPLIED >

<!--
A TIFF image of a signature

-->
<!ELEMENT fax-image EMPTY>

<!ATTLIST fax-image file CDATA #REQUIRED >

<!--
2. This REPORT consists of a total of _____ sheets, including this
   cover sheet.

-->
<!ELEMENT iprp-sheet-of-annexes (iprp-annexes-sheet? , iprp-annexes-electronic-
carrier?)>

<!ATTLIST iprp-sheet-of-annexes page-count CDATA #IMPLIED >

<!--
A total of (indicate type and number of electronic carrier(s)) _____ ,
containing a sequence listing and/or tables related thereto, in computer readable
form only, as indicated in the Supplemental Box Relating to Sequence Listing
(see Section 802 of the Administrative Instructions).

-->
<!ELEMENT iprp-annexes-electronic-carrier EMPTY>

<!ATTLIST iprp-annexes-electronic-carrier quantity CDATA #IMPLIED >

```



```

                                paper ) #IMPLIED
external-type                (math |
                                chemistry |
                                program-listing |
                                other ) #IMPLIED
status                       CDATA #IMPLIED >

<!--
TABLES
This is image data or coded according to OASIS Exchange model with modified cell
'entry' content.

Recommended id = tabl0001, tabl0002, etc.

-->
<!ELEMENT tables (img | table)>

<!ATTLIST tables  id ID      #IMPLIED
                  num CDATA  #REQUIRED >

<!--
Definition list

Recommended id = dlis0001, dlis0002, etc.

-->
<!ELEMENT dl (dt , dd)+>

<!ATTLIST dl  tsize CDATA #IMPLIED
             compact (compact ) #IMPLIED
             id ID      #IMPLIED >

<!--
Term to be defined

Recommended id = dtrm0001, dtrm0002, etc.

-->
<!ELEMENT dt (#PCDATA | b | i | u | o | sup | sub | smallcaps)*>

<!ATTLIST dt  id ID #IMPLIED >

<!--
Unordered Lists
list-style may be empty for lists with no bullet or other symbol default
list-style is 'bullets'

Recommended id = ulis0001, ulis0002, etc.

-->
<!ELEMENT ul (li+)>

<!ATTLIST ul  id ID #IMPLIED
             list-style (bullet | dash | none ) 'bullet'
             compact (compact ) #IMPLIED >

<!--
List item

Recommended id = list0001, list0002, etc.

-->
<!ELEMENT li (#PCDATA | b | i | u | o | sup | sub | smallcaps | br | pre | patcit |
nplcit | bio-deposit | crossref | figref | img | dl | ul | ol | chemistry |
maths)*>

<!ATTLIST li  id ID      #IMPLIED
             num CDATA  #IMPLIED >

<!--

```



```

MATHEMATICS
This is image data or coded according to mathml, version 2

Recommended id = math0001, math0002, etc.

-->
<!ELEMENT maths (img | (math , img?))>

<!ATTLIST maths  id  ID      #IMPLIED
                 num CDATA  #REQUIRED >

<!--
Chemistry
Chemical formulae, ring structures, Markush structures, etc.

For now treat as image data.
Depending on industry support we may use, e.g., chemML, CML later

Recommended id = chem0001, chem0002, etc

-->
<!ELEMENT chemistry (img | (chem , img?))>

<!ATTLIST chemistry  id  ID      #IMPLIED
                    num CDATA  #REQUIRED >

<!--
This is a pointer to an external DTD for chemical markup - to be determined.
For EPO probably CML; http://www.xml-cml.org/

-->
<!ELEMENT chem EMPTY>

<!ATTLIST chem  id  ID      #IMPLIED
               file CDATA  #REQUIRED
               chem-type CDATA  #IMPLIED >

<!--
Ordered Lists:
attribute 'ol-style'

Recommended use:
  1  arabic numbers      1, 2, 3, ...
  a  lower alpha        a, b, c, ...
  A  upper alpha        A, B, C, ...
  i  lower roman        i, ii, iii, ...
  I  upper roman        I, II, III, ...

-->
<!ELEMENT ol (li+)>

<!ATTLIST ol  id  ID      #IMPLIED
             compact (compact) #IMPLIED
             ol-style CDATA  #IMPLIED >

<!--
Image data
Image is used for any kind of image: art work, figures, complex work units
(math, tables, chemistry), etc.

Recommended:
  id          = i0001, i0002, etc.
  he, wi     = "11" - millimeters - height, width;
  file       = file name, location; label - not used;
  alt        = alternate text if image not shown;
  img-content = drawing is the default;
  img-format = common will be tiff, st33 and st35 in for backward compatibility
             and, later, publication.
  orientation = orientation of the image (portrait | landscape).
             Default is portrait

```

```

inline      = (yes | no).
             Whether the image is to be presented inline or separated by line
             breaks. Default is no.

-->
<!ELEMENT img EMPTY>

<!ATTLIST img  id          ID          #IMPLIED
               he          CDATA       #REQUIRED
               wi          CDATA       #REQUIRED
               file        CDATA       #REQUIRED
               alt         CDATA       #IMPLIED
               img-content (drawing |
                           photograph |
                           character |
                           dna |
                           undefined |
                           chem |
                           table |
                           math |
                           program-listing |
                           flowchart |
                           graph ) 'drawing'
               img-format  (jpg | tif | st33 | st35 ) #REQUIRED
               orientation (portrait | landscape ) 'portrait'
               inline      (yes | no ) 'no' >

<!--
  A reference to a figure;
  e.g., "...as shown in <figref idref='f0001'>figure<b>1</b></figref>..."
-->
<!ELEMENT figref (#PCDATA | b | i | u | o | sup | sub | smallcaps)*>

<!ATTLIST figref  idref  IDREFS  #IMPLIED
                 num    CDATA    #IMPLIED >

<!--
  Cross reference to any other element with an identifier (id)
-->
<!ELEMENT crossref (#PCDATA | b | i | u | o | sup | sub | smallcaps)*>

<!ATTLIST crossref  idref  IDREF  #REQUIRED >

<!--
  Biological deposit citation (US EFS: biological-deposit)
  (INID 83, ST.32:B830)
  According to PCT Rule 13bis, EPC Rule 28
  This covers all bio data references long and short within the description and/or
  claims

  Recommended id = biod0001, biod0002, etc.
-->
<!ELEMENT bio-deposit (depository , bio-accno , date? , term? , dtext?)>

<!ATTLIST bio-deposit  id  ID          #IMPLIED
                      num  CDATA       #REQUIRED
                      url  CDATA       #IMPLIED
                      dnum CDATA       #IMPLIED >

<!--
  Non-Patent Literature (NPL) CITation;

  Notes:
  This can be free text data without any structure (#PCDATA) which is NOT
  recommended
  or it can be highly structured data which is marked up according to ST.14 and
  ISO 690 layout;

```

```
This part of the DTD has used many different sources for element names and DTD
structure and reference:
AACR2 / MARC
ISO 12083 - Electronic manuscript prep. and markup. DTD
Association of American Publishers (AAP) Z39.59 DTD
European Working Group for SGML (EWS) MAJOUR DTD
SuperJournal Full Article DTD
  www.superjournal.ac.uk/sj
Elsevier DTD
Medline DTD (NLM)

Attributes (recommended):
id - ncit0001, ncit0002, etc
num - 0001, 0002
npltype - The TYPE of citation is office specific (recommended);
  A - Abstract citation of no specific kind
  B - Book citation
  I - Biological abstract citation
  C - Chemical abstracts citation
  E - Database citation
  D - Derwent citation
  P - Patent cited within NPL group
  J - Patent Abstracts of Japan citation (REC 067)
  S - Serial / Journal / Periodical citation
  W - World Wide Web / Internet search citation
medium - the type of medium
  e.g., CD (CD-ROM), MT (Magnetic Tape), DISK, ONLINE
file - file name on local systems eg. XP number in EPO
url - where possible give full web link to document

-->
<!ELEMENT nplcit ((text | article | book | online | othercit) , rel-passage*)>

<!ATTLIST nplcit  id          ID          #IMPLIED
                  num        CDATA      #IMPLIED
                  lang       CDATA      #IMPLIED
                  file        CDATA      #IMPLIED
                  npl-type    CDATA      #IMPLIED
                  medium       CDATA      #IMPLIED
                  url          CDATA      #IMPLIED >

<!--
  Reference number (general); for the EPO this is the XP number
-->

<!ELEMENT refno (#PCDATA)>

<!ATTLIST refno  id ID          #IMPLIED >

<!--
  Classification code; e.g., ipc, dewey etc.
-->

<!ELEMENT class (#PCDATA)>

<!ATTLIST class  class-type CDATA      #IMPLIED >

<!--
  Subordinate responsibility; e.g., editor, translator, etc.
-->

<!ELEMENT subname (%name_group; | addressbook)>

<!ATTLIST subname  subname-type  (editor | translator | other-subname-type )
'editor' >

<!--
  Author
```

```
Prime responsibility for the work
there is no distinguishing between personal and corporate authors
<author> followed by name or addressbook information
use the ID attribute if, for example, there is a need to distinguish between
multiple authors.
Can also include affiliation details

Recommended id = auth0001, auth0002, etc.

-->
<!ELEMENT author (%name_group; | addressbook)>

<!ATTLIST author  id ID      #IMPLIED >

<!--
PATENT CITATIONS:
(ST.32:B561)
Patent Citation within abstract, description or claims.
For patent citations within Search Report see Search Report DTD

Notes:
Tags arranged according to WIPO ST.14 order.
This can be free text data without any structure (text).

Example:
<patcit id='pcit0001' dnum='US4793675A' dnum-type='publication number'>
  <document-id>
    <country>US</country>
    <doc-number>4793675</doc-number>
    <kind>A</kind>
    <name>Handa</name>
    <date>19881227</date>
  </document-id>
</patcit>

Note:
It is NOT expected that the applicant will create the tagged data
- it could be generated from a 'pull down' data entry form
or generated from internal SR databases

Attributes (recommended):
id - pcit0001, pcit0002, etc.
num - 0001, 0002, etc.
dnum - use full number as one string, eg, "US5401234A";
url - where possible give full web link to patent
file - file name eg. if stored on local systems
dnum-type - type of document number
(e.g., application number, publication number)

-->
<!ELEMENT patcit (text | (document-id , rel-passage*))>

<!ATTLIST patcit  id          ID      #IMPLIED
                  num        CDATA   #IMPLIED
                  dnum       CDATA   #IMPLIED
                  dnum-type  CDATA   #IMPLIED
                  file       CDATA   #IMPLIED
                  url        CDATA   #IMPLIED >

<!--
This element is one method to identify content consisting of text objects that
require preservation (pre) of their whitespace in order to preserve internal
logical relationships.
(e.g., sequence listing fragments, computer program listings)

-->
<!ELEMENT pre (#PCDATA)>

<!ATTLIST pre  id          ID      #IMPLIED
              xml:space   (preserve | default ) #IMPLIED
```

```

        listing-type      (sequence | program-listing | other )
#REQUIRED >

<!--
  Underscore: style - single is default
-->
<!ELEMENT u (#PCDATA | b | i | smallcaps | sup | sub)*>

<!ATTLIST u  style      (single | double | dash | dots )  'single' >

<!--
  Overscore: style - single is default
-->
<!ELEMENT o (#PCDATA | b | i | smallcaps | sup | sub)*>

<!ATTLIST o  style      (single |
                        double |
                        dash |
                        dots |
                        leftarrow |
                        rightarrow |
                        leftrightarrow )  'single' >

<!--
  Application reference information: application number, country
  (INID 21, ST.32:B210)
-->
<!ELEMENT application-reference (document-id)>

<!ATTLIST application-reference  id          ID          #IMPLIED
                                appl-type CDATA  #IMPLIED >

<!--
  Document identification refers to patents (and patent applications) only.
  See WIPO ST.14
-->
<!ELEMENT document-id (country , doc-number , kind? , name? , date?)>

<!ATTLIST document-id  lang CDATA  #IMPLIED >

<!--
  ADDRESSBOOK GROUP:
  Holds name and contact information for individuals/organizations

  The LANG attribute is REQUIRED for certain document types,
  e.g., the JPO PCT Request where names and addresses may be repeated in two
  different languages. If no structure possible use text.
-->
<!ELEMENT addressbook ((%name_group; , address , phone* , fax* , email* , url* ,
ead* , dtext?) | text)>

<!ATTLIST addressbook  id          ID          #IMPLIED
                        lang CDATA  #IMPLIED >

<!--
  Email address

  Attribute:
    email-purpose      reason for which email address is included:
informal              for informal contact only
general               for any type of communication
confirmation          any type of communication, but formal messages followed up
                      by conventional mailing (to the extent offered)
main                  where applicant desires this address to be used as primary
                      means of contact as a replacement of the use of conventional

```

post (to the extent that an Office offers this)
the default value depends on e-mail policies of the relevant Office.
For PCT purposes as at 1 July 2008, no attribute being included is
equivalent to 'informal'

-->

<!ELEMENT email (#PCDATA)>

<!ATTLIST email email-purpose (informal | general | advance | main) #IMPLIED >

<!--

Name:

If no distinction or detail can be given.

Also to be used for: personal (natural person) and corporate (legal entity) names

-->

<!ELEMENT name (#PCDATA)>

<!ATTLIST name name-type (legal | natural) #IMPLIED >

<!--

doc-page - DOCUMENT or PAGE

This is primarily to be used when data for the whole or major sections of an
application are in image format OR other formats such as pdf.

Page range attributes are given when required

pp - page range

ppf - first page

ppl - last page (for pdf).

The 'img' may also be used for complete pages, e.g. in drawings

Recommended id = docp0001, docp0002, etc.

Attributes "he" and "wi" mean height and width.

-->

<!ELEMENT doc-page EMPTY>

<!ATTLIST doc-page id ID #IMPLIED
he CDATA #REQUIRED
wi CDATA #REQUIRED
type (jpg | pdf | tif) #REQUIRED
alt CDATA #IMPLIED
pp CDATA #IMPLIED
ppf CDATA #IMPLIED
ppl CDATA #IMPLIED
file CDATA #REQUIRED
ocr CDATA #IMPLIED
color (color | bw) #IMPLIED
orientation (portrait | landscape) 'portrait' >

<!--

PCT Article 34 Amendment document

-->

<!ELEMENT pct-art34 (doc-page | pct-art34-doc)+>

<!--

Body of the annex to the International Preliminary Examination Report

-->

<!ELEMENT iprp-annex (doc-page | iprp-annex-doc)+>

<!--

(PCT/IPEA/408) - Box No. V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty,
inventive step or industrial applicability;

```

citations and explanations supporting such statement

-->
<!ELEMENT pct-rule66-2-statement (novelty-valid , novelty-not-valid , inventive-
step-valid , inventive-step-not-valid , applicability-valid , applicability-not-
valid , citations-explanations?)>

<!--
(PCT/IPEA/408 - Box No. VI Certain documents cited)
-->
<!ELEMENT opinion-citations (certain-published-documents | non-written-
disclosures)*>

<!--
(PCT/IPEA/408 - Box No. IV Lack of unity of invention)
-->
<!ELEMENT unity-of-invention (invitation-pay-additional-fees? , not-unity-of-
invention? , compliance-unity-invention , opinion-established-regarding)>

<!--
(PCT/ISA/237 ) - Box No. IV Lack of unity of invention Consequently,
this opinion has been established in respect of the following parts of the
international application: all parts the parts relating to claims Nos.
-->
<!ELEMENT opinion-established-regarding (entire-application | claim-num+)>

<!--
(PCT/IPEA/408 - Box No. I Basis of the opinion)
Basis of this opinion
-->
<!ELEMENT basis-of-iprp-opinion (basis-language-for-examination , iprp-basis-
application? , iprp-basis-description* , iprp-basis-claims* , iprp-basis-
drawings* , sequence-list-basis* , cancellation-doc? , pct-rule70-2c?)>

<!--
(PCT/IPEA/409)
Certain documents cited (Section VI)
-->
<!ELEMENT iprp-citations (certain-published-documents | non-written-disclosures |
text)*>

<!--
(PCT/ISA/237 )
2. Non-written disclosures (Rules 43bis.1 and 70.9)

(PCT/IPEA/409 and PCT/IPEA/408 )
2. Non-written disclosures (Rule 70.9)
-->
<!ELEMENT non-written-disclosures (kind-of-disclosure , date , date-of-written-
disclosure)>

<!--
Date of written disclosure

Referring to non-written disclosure (day/month/year)
-->
```

```
<!ELEMENT date-of-written-disclosure (date)>

<!--
  Kind of non-written disclosure
-->
<!ELEMENT kind-of-disclosure (#PCDATA)>

<!--
  (PCT/ISA/237 )
    1. Certain published documents (Rules 43bis.1 and 70.10)

  (PCT/IPEA/409 and PCT/IPEA/408 )
    1. Certain published documents (Rule 70.10)
-->
<!ELEMENT certain-published-documents ((citation+ , filing-date , priority-date?) |
text)>

<!--
  Certain observations on the international application (Section VIII).
  The following observations on the clarity of the claims, description, and
  drawings or on the question whether the claims are fully supported by the
  description, are made:
-->
<!ELEMENT observation-on-application (p+)>

<!--
  Certain defects in the international application (Section Vii).
  The following defects in the form or contents of the international application
  have been noted:
-->
<!ELEMENT defect-in-application (p+)>

<!--
  (PCT/IPEA/409)
    Reasoned statement under Article 35(2) with regard to novelty, inventive step
    or industrial applicability;citations and explanations supporting such
    statement (Section V)
-->
<!ELEMENT pct-art35-2-statement (novelty-valid , novelty-not-valid , inventive-
step-valid , inventive-step-not-valid , applicability-valid , applicability-not-
valid , citations-explanations?)>

<!--
  Citations and explanations:
-->
<!ELEMENT citations-explanations ((citation+ , filing-date? , priority-date?) |
p+)>

<!ELEMENT filing-date (date)>

<!--
  Possible sources: human-generated-classification,
  machine-propagated-classification, software-analysis-generated-classification
-->
<!ELEMENT classification-data-source (#PCDATA)>
```



```
<!--  
Possible status: original-classification, reclassified, various-classification,  
deleted-classification  
-->  
<!ELEMENT classification-status (#PCDATA)>  
  
<!--  
  
-->  
<!ELEMENT generating-office (country)>  
  
<!--  
  
-->  
<!ELEMENT action-date (date)>  
  
<!--  
Possible values: invention, non-invention  
-->  
<!ELEMENT classification-value (#PCDATA)>  
  
<!--  
Possible positions: first-symbol-position, later-symbol-position.  
-->  
<!ELEMENT symbol-position (#PCDATA)>  
  
<!--  
  
-->  
<!ELEMENT subgroup (#PCDATA)>  
  
<!--  
  
-->  
<!ELEMENT main-group (#PCDATA)>  
  
<!--  
  
-->  
<!ELEMENT subclass (#PCDATA)>  
  
<!--  
  
-->  
<!ELEMENT section (#PCDATA)>  
  
<!--  
Levels: ipcr-advanced, ipcr-core  
-->
```

```
<!ELEMENT classification-level (#PCDATA)>

<!--
-->
<!ELEMENT ipc-version-indicator (date)>

<!--
  Patent family and corresponding-docs
-->
<!ELEMENT corresponding-docs ((patcit | nplcit) , (rel-passage* , category* , rel-claims*)*)>

<!ELEMENT applicability-not-valid (claim-num*)>

<!ELEMENT applicability-valid (claim-num*)>

<!ELEMENT inventive-step-not-valid (claim-num*)>

<!ELEMENT inventive-step-valid (claim-num*)>

<!ELEMENT novelty-not-valid (claim-num*)>

<!ELEMENT novelty-valid (claim-num*)>

<!--
  (PCT/IPEA/409)
  Box No. IV Lack of unity of invention
-->
<!ELEMENT iprp-unity-of-invention (invitation-pay-additional-fees? , not-unity-of-invention? , compliance-unity-invention , subject-examination)>

<!--
  Consequently, the following parts of the international application were the
  subject of international preliminary examination in establishing this report:

  all parts
  the parts relating to claims Nos.
-->
<!ELEMENT subject-examination (entire-application | (claim-num+ | p*))>

<!--
  (PCT/ISA/237 ) - Box No. IV Lack of unity of invention (2)
  This Authority found that the requirement of unity of invention is not complied
  with and chose not to invite the applicant to pay additional fees.

  (PCT/IPEA/409 )
  This Authority found that the requirement of unity of invention is not complied
  with and chose, according to Rule 68.1, not to invite the applicant to restrict
  or pay additional fees.
-->
<!ELEMENT not-unity-of-invention EMPTY>
```

```
<!--
(PCT/ISA/237 - Box III)
  Non-establishment of opinion with regard to novelty, inventive step and
  industrial applicability.
-->
<!ELEMENT non-establishment-of-opinion (invention-not-examined , not-annex-c-
compliant)>

<!--
(PCT/ISA/237 - Box III)
-->
<!ELEMENT not-annex-c-compliant (annex-c? , annex-c-bis? , additional-info?)>

<!--
  The questions whether the claimed invention appears to be novel, to involve
  an inventive step (to be non obvious), or to be industrially applicable have not
  been examined in respect of:
-->
<!ELEMENT invention-not-examined ((entire-application | claim-num+) , non-estab-
reason-1? , non-estab-reason-2? , non-estab-reason-3? , non-estab-reason-4?)>

<!--
  No international search report has been established for said claims Nos.
  (rel-claims)
-->
<!ELEMENT non-estab-reason-4 (claim-num+)>

<!--
  The claims, or said claims Nos. (claim nos) are so inadequately supported by the
  description that no meaningful opinion could be formed.
-->
<!ELEMENT non-estab-reason-3 (claim-num* , p+)>

<!--
  The description, claims or drawings (indicate particular elements below) or said
  claims Nos are so unclear that no meaningful opinion could be formed (specify):
-->
<!ELEMENT non-estab-reason-2 (claim-num* , p+)>

<!--
  The said international application, or the said claims Nos. "rel-claims" relate
  to the following subject matter which does not require an international
  preliminary examination
-->
<!ELEMENT non-estab-reason-1 (claim-num* , p+)>

<!--
  The entire international application.
-->
<!ELEMENT entire-application EMPTY>

<!--
(PCT/IPEA/409)
Box NO. II Priority
```

```
-->
<!ELEMENT iprp-priority (earlier-appl? , claim-invalid? , additional-info?)>

<!--
  This opinion has been established as if no priority had been claimed due to
  the fact that the priority claim has been found invalid (Rules 43bis.1 and 64.1).

  Thus for the purposes of this opinion, the international filing date indicated
  above is considered to be the relevant date.
-->
<!ELEMENT claim-invalid EMPTY>

<!--
  (PCT/IPEA/409)
  Box No. I Basis of the report
-->
<!ELEMENT iprp-basis ((iprp-basis-application? , iprp-basis-description* , iprp-
basis-claims* , iprp-basis-drawings* , sequence-list-basis*) , basis-language-for-
examination , cancellation-doc? , pct-rule70-2c?)>

<!--
  4. This report has been established as if (some of) the amendments annexed to
  this report and listed below had not been made, since they have been
  considered to go beyond the disclosure as filed, as indicated in the
  Supplemental Box (Rule 70.2(c)).
-->
<!ELEMENT pct-rule70-2c (amend-description? , amend-claims? , amend-drawings? ,
amend-sequence-listing? , amend-sequence-listing-table?)>

<!--
  The amendments have resulted in the cancellation of:
-->
<!ELEMENT cancellation-doc (amend-description? , amend-claims? , amend-drawings? ,
amend-sequence-listing? , amend-sequence-listing-table?)>

<!--
  Any table(s) related to sequence listing (specify): _____
-->
<!ELEMENT amend-sequence-listing-table (text)>

<!--
  The sequence listing (specify): _____
-->
<!ELEMENT amend-sequence-listing (text)>

<!--
  The drawings, sheets/figs _____
-->
<!ELEMENT amend-drawings (text | (rel-pages+ | rel-figures+)+)>

<!--
  The claims, Nos. _____
-->
```

```
<!ELEMENT amend-claims (text | claim-num+)>

<!--
  The description, pages _____
-->
<!ELEMENT amend-description (text | (rel-pages | rel-para)+)>

<!--
  A sequence listing and/or any related table(s) - see Supplemental Box Relating
  to Sequence Listing.
-->
<!ELEMENT sequence-list-basis (material-of-sequence-list , presentation-of-
statements? , additional-info?)>

<!--
  (PCT/ISA/210 Box No. I Nucleotide and/or amino acid sequence(s)

  (Continuation of item1.b of the first sheet))
  1. With regard to any nucleotide and/or amino acid sequence disclosed in the
  international application and necessary to the claimed invention,
  the international search was carried out on the basis of:

  (PCT/ISA/237 Box No. I Basis of this opinion)
  2. With regard to any nucleotide and/or amino acid sequence disclosed in the
  international application and necessary to the claimed invention,
  this opinion has been established on the basis of:

  (PCT/IPEA/409 Supplemental Box Relating to Sequence Listing)
  1. With regard to any nucleotide and/or amino acid sequence disclosed in the
  international application and necessary to the claimed invention,
  this report was established on the basis of:

  (PCT/IPEA/408 Supplemental Box Relating to Sequence Listing)
  1. With regard to any nucleotide and/or amino acid sequence disclosed in the
  international application and necessary to the claimed invention,
  this opinion was established on the basis of:

-->
<!ELEMENT material-of-sequence-list (sequence-listing-material-type , sequence-
listing-material-format , sequence-listing-filing-time)>

<!--
  (PCT/ISA/210 and PCT/ISA/237 )
  In addition, in the case that more than one version or copy of a sequence
  listing and/or table relating thereto has been filed or furnished,
  the required statements that the information in the subsequent or additional
  copies is identical to that in the application as filed or does not go beyond
  the application as filed, as appropriate, were furnished.

  (PCT/IPEA/409 and PCT/IPEA/408 )
  In addition, in the case that more than one version or copy of a sequence
  listing and/or table(s) relating thereto has been filed or furnished,
  the required statements that the information in the subsequent or additional
  copies is identical to that in the application as filed or does not go beyond
  the application as filed, as appropriate, were furnished.

-->
<!ELEMENT presentation-of-statements EMPTY>

<!--
  Referenced figure number
-->
```

```
<!ELEMENT rel-figures (#PCDATA)>

<!--
  Claim numbers
-->
<!ELEMENT claim-num (#PCDATA)>

<!--
  Referenced paragraph
-->
<!ELEMENT rel-para (#PCDATA)>

<!--
  Referenced pages
-->
<!ELEMENT rel-pages (#PCDATA)>

<!--
  2. With regard to the elements of the international application, this report is
  based on (replacement sheets which have been furnished to the receiving Office
  in response to an invitation under Article 14 are referred to in this report as
  originally filed h and are not annexed to this report):

  The international application as originally filed/furnished
-->
<!ELEMENT iprp-basis-application EMPTY>

<!--
  IPRP administration data group
-->
<!ELEMENT iprp-admin (examiners? , iprp-office? , completion-date , demand-
submission-date? , date-of-mailing?)>

<!--
  Date of mailing:
-->
<!ELEMENT date-of-mailing (date)>

<!--
  Date of submission of demand, format YYYYMMDD
-->
<!ELEMENT demand-submission-date (date)>

<!ELEMENT completion-date (date)>

<!--
  International Preliminary Examination Authority; international preliminary
  examination to be carried out by
-->
<!ELEMENT iprp-office (addressbook)>

<!--
```

```
Persons acting on the document.
(ST.32:B745)

-->
<!ELEMENT examiners (primary-examiner? , assistant-examiner? , authorized-
officer?)>

<!--
  Authorized Officer.
-->
<!ELEMENT authorized-officer (%name_group; , phone? , fax? , email? , electronic-
signature?)>

<!--
  Assistant Examiner.
  (ST.32:B747)
-->
<!ELEMENT assistant-examiner (%name_group; , electronic-signature?)>

<!--
  Primary Examiner.
  (ST.32:B746)
-->
<!ELEMENT primary-examiner (%name_group; , electronic-signature?)>

<!--
  A PKI / PKCS #7 digital signature data type
-->
<!ELEMENT enhanced-signature (pkcs7)>

<!--
  PKCS7 digital signature
-->
<!ELEMENT pkcs7 EMPTY>

<!--
  A non-PKI electronic signature
-->
<!ELEMENT basic-signature (fax-image | text-string | click-wrap)>

<!--
  A simple 'signature';
  e.g., clicking a button labeled 'accept' or 'I agree'
-->
<!ELEMENT click-wrap EMPTY>

<!--
  A simple text string is to be used as the basic electronic signature;
  e.g., John Doe <text-string>/jd/</text-string>
-->
<!ELEMENT text-string (#PCDATA)>

<!--
```

Sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.

```
-->
<!ELEMENT iprp-rectifications-authorized EMPTY>

<!--
  Sheets of the description, claims and/or drawings which have been amended and are
  the basis of this report and/or sheets containing rectifications authorized by
  this Authority
  (see Rule 70.16 and Section 607 of the Administrative Instructions)
-->
<!ELEMENT iprp-beyond-disclosure EMPTY>

<!--
  The name of the applicant (without address information)
  (ST.32:B711)
-->
<!ELEMENT applicant-name (%name_group;)>

<!--
  Unlinked indexing code.
  (ST.32:B515/B525)
-->
<!ELEMENT unlinked-indexing-code (#PCDATA)>

<!--
  Linked indexing code.
  (ST.32:B514/B524)
-->
<!ELEMENT linked-indexing-code-group (main-linked-indexing-code , sub-linked-
indexing-code+)>

<!--
  Sub/further Linked Indexing Code.
-->
<!ELEMENT sub-linked-indexing-code (#PCDATA)>

<!--
  Main Linked Indexing Code.
-->
<!ELEMENT main-linked-indexing-code (#PCDATA)>

<!--
  Main classification.
  (ST.32:B511/B521)
-->
<!ELEMENT main-classification (#PCDATA)>

<!--
  Additional information.
  (ST.32:B513)
-->
```



```
<!ELEMENT additional-info (p+)>

<!--
  Definition description
-->
<!ELEMENT dd (#PCDATA | b | i | u | o | sup | sub | smallcaps | br | pre | patcit |
nplcit | bio-deposit | crossref | figref | img | ul | ol | chemistry | maths)*>

<!--
  Identifies the period of time during which the depository must be able to furnish
  samples of the biological material.
-->
<!ELEMENT term (#PCDATA)>

<!--
  Biological accession number:
  (ST.32:B831)
  The identification assigned to the biological material by the depository
-->
<!ELEMENT bio-accno (#PCDATA)>

<!--
  Information regarding the facility storing the biological deposit.
  (ST.32:B832)
-->
<!ELEMENT depository (#PCDATA | address)*>

<!--
  Other citations - free form
-->
<!ELEMENT othercit (#PCDATA | b | i | u | o | sup | sub)*>

<!--
  Online citation
  Revised according to ISO-690-2 - Electronic documents and parts thereof.
  Please refer to this standard for definitions and examples.
  See: http://www.nlc-bnc.ca/iso/tc46sc9/standard/690-2e.htm#Contents
  The tagging in fact is a mixture of article and book tags together with
  specific electronic source tags.
  'Online' is taken to mean any kind of electronic documentation:
  databases, internet, CD-Roms, DVD, email, etc
  EXAMPLES: ;

  Kirk-Othmer Encyclopedia of Chemical Technology [online].
  3rd ed. New York : John Wiley, 1984 [cited 3 January 1990].
  Available from: DIALOG Information Services, Palo Alto (Calif.).

  <nplcit id='ncit1' num='0001' type='E' medium='online'>
    <online>
      <online-title>Kirk-Othmer Encyclopedia of Chemical Technology
    </online-title>
    <edition>3rd ed.</edition>
    <imprint>
      <address>
        <text>New York</text>
      </address>
      <name>John Wiley</name>
      <pubdate>19840000</pubdate>
```

```
</imprint>
<avail>dialog information services, palo alto (calif.).</avail>
<datecit>
  <date>19900103</date>
</datecit>
</online>
</nplcit>
```

- * Article on Internet:
Clark, Carol. On the Threshold of a Brave New World.
In Blueprint of the Body [online].
CNN.com, 2000. [cited 24 August 2000;10:25 EST]. In-depth specials.
Available from: [http://www.cnn.com/SPECIALS/2000/genome/story/overview/]

```
<nplcit id='ncit1' num='0002' type='E' medium='online'>
  <online>
    <author>
      <name>Clark, Carol</name>
    </author>
    <online-title>On the Threshold of a Brave New World</online-title>
    <imprint>
      <name>CNN.com, 2000</name>
    </imprint>
    <series>
      <text>In-depth specials</text>
    </series>
    <avail>http://www.cnn.com/SPECIALS/2000/genome/story/</avail>
    <datecit>
      <date>20000824; 10:25 est</date>
    </datecit>
  </online>
</nplcit>
```

- * Personal communication (e-mail)

Thacker, Jane. MPEG-21 project stream on digital item identification [online].
Message to: [iso.tc46.sc9@nlc-bnc.ca]. 3 October 2000; 13:33 EST [cited 6
October 2000; 13:10 EST].
Message-ID: [002f01c02d60\$051a64a0\$22a2580c@vaio]. Personal communication.

```
<nplcit id='ncit3' num='0003' type='E' medium='online'>
  <online>
    <author>
      <name>Thacker, Jane</name>
    </author>
    <online-title>MPEG-21 project stream on digital item identification
    </online-title>
    <subname>
      <name>Message to: <iso.tc46.sc9@nlc-bnc.ca></name>
    </subname>
    <pubdate>3 October 2000; 13:33 EST</pubdate>
    <notes>Personal communication</notes>
    <avail>Message-ID: <002f01c02d60$051a64a0$22a2580c@vaio></avail>
    <datecit><date>6 october 2000; 13:10 EST</date></datecit>
  </online>
</nplcit>
```

-->

```
<!ELEMENT online (text | (author* , online-title* , hosttitle? , subname* ,
edition? , (serial | book)? , imprint? , pubdate? , history? , series? , hostno? ,
location? , notes? , avail , class* , keyword* , cpyrt? , issn? , isbn? ,
datecit? , srchterm* , srchdate? , refno* , vid? , ino? , doi? , absno?))>
```

<!--

Date of search/retrieval YYYYMMDD

-->

```
<!ELEMENT srchdate (date)>
```

```
<!--
  Search terms
-->
<!ELEMENT srchterm (#PCDATA)>

<!--
  Date cited - date on which the citation was cited.
  May be different from srchdate below
-->
<!ELEMENT datecit (date)>

<!--
  Availability and access - REQUIRED use for URL, online database, ftp address,
  email, etc.;
  e.g., Available from Internet: http://www.epoline.org
  Available from DIALOG Information Systems, Palo Alto (Calif.)
-->
<!ELEMENT avail (#PCDATA)>

<!--
  Numeration within host document
-->
<!ELEMENT hostno (#PCDATA)>

<!--
  History of the article (not serial)
-->
<!ELEMENT history (text | (received | accepted | revised | misc))>

<!--
  Miscellaneous information relating to the history of the article; see ISO 12083
-->
<!ELEMENT misc (#PCDATA | date)*>

<!--
  Date article was revised
-->
<!ELEMENT revised (date)>

<!--
  Date article was accepted
-->
<!ELEMENT accepted (date)>

<!--
  Date article was received
-->
<!ELEMENT received (date)>

<!--
  Title of the host document/database
```

```
-->
<!ELEMENT hosttitle (#PCDATA)>

<!--
  The title of the electronic resource
-->
<!ELEMENT online-title (#PCDATA)>

<!--
  Article citations within a 'host' document

  After patent citations the most common citations are articles within serials
  (periodicals, magazines), books and electronic (eg. internet) sources.
  This is a very complex and varied area to standardise. The tag set below is drawn
  from a number of sources as is the order of the tags (which in any case can be
  changed depending on the stylesheet used).;

  The order of tags is that of WIPO ST.14 / ISO 690 layout.
  DROP, J.G. Integrated Circuit Personalization at the Module Level. IBM Tech.
  Dis. Bull. October 1974, Vol. 17, No. 5, p. 1344 and 1345.
  [XPnnnnnnnnnnn].

  <nplcit id='ncit1' num='0012' type='S' file='XP1234456'>
    <article>
      <author>
        <name>DROP, J.G.</name>
      </author>
      <atl>Integrated Circuit Personalization at the Module Level</atl>
      <serial>
        <sertitle>IBM Tech. Dis. Bull.</sertitle>
        <pubdate>19741000</pubdate>
        <vid>17</vid>
        <ino>5</ino>
      </serial>
      <location>
        <pp>1344 and 1345</pp>
      </location>
      <refno id='XP1'>XP1234456</refno>
    </article>
  </nplcit>

  Note: it is NOT expected that the applicant will create the tagged data
  - it can be generated from a 'pull down' data entry form (eg. in Word) or
  generated from internal SR databases

-->
<!ELEMENT article (text | (author* , atl? , subname* , (serial | book) , absno? ,
location? , class* , keyword* , cpyrt? , artid? , refno*))>

<!--
  Article unique ID - assigned by a publisher to an article
-->
<!ELEMENT artid (#PCDATA)>

<!--
  Book citation
  In the order specified by WIPO ST.14 and ISO 690 and AACR2 rules for layout

  WALTON, Herrmann. Microwave quantum theory.
  London : Sweet and Maxwell, 1973. ISBN 0123456789.
  Vol.2, p. 138 to 192.

  <nplcit id='ncit12' num='0013' type='b'>
```

```
<book>
  <author>
    <name>WALTON, Herrman</name>
  </author>
  <book-title>Microwave quantum theory</book-title>
  <imprint>
    <address>
      <text>London</text>
    </address>
    <name>Sweet and Maxwell</name>
    <pubdate>19730000</pubdate>
  </imprint>
  <location>
    <pp>138 to 192</pp>
  </location>
  <isbn>0-1234-568-9</isbn>
</book>
</nplcit>

-->
<!ELEMENT book (text | (author* , (book-title+ | conference) , (subtitle? ,
subname* , edition? , imprint? , descrip? , series? , absno? , location* , isbn* ,
pubid? , vid? ) , bookno? , notes? , class* , keyword* , cpyrt? , refno* , doi? ,
ino? , issn?)))>

<!--
  Keyword; e.g., from a Thesaurus or class. scheme
  (ST.32:B550)
-->
<!ELEMENT keyword (#PCDATA)>

<!--
  Book number
-->
<!ELEMENT bookno (#PCDATA)>

<!--
  Location within the cited work
-->
<!ELEMENT location (text | (serpart? , sersect? , chapter? , pp? , column? ,
para? , line?))>

<!--
  Referenced line within cited work
-->
<!ELEMENT line (#PCDATA | linef | line1)*>

<!--
  Cited document line, last
-->
<!ELEMENT line1 (#PCDATA)>

<!--
  Cited document line, first
-->
<!ELEMENT linef (#PCDATA)>
```

```
<!--  
  Referenced paragraph within cited work  
-->  
<!ELEMENT para (#PCDATA | paraf | paral)*>  
  
<!--  
  Cited paragraph, last  
-->  
<!ELEMENT paral (#PCDATA)>  
  
<!--  
  Cited paragraph, first  
-->  
<!ELEMENT paraf (#PCDATA)>  
  
<!--  
  Cited document column numbers  
-->  
<!ELEMENT column (#PCDATA | colf | coll)*>  
  
<!--  
  Cited document column, last  
-->  
<!ELEMENT coll (#PCDATA)>  
  
<!--  
  Cited document column, first  
-->  
<!ELEMENT colf (#PCDATA)>  
  
<!--  
  Cited document page numbers  
-->  
<!ELEMENT pp (#PCDATA | ppf | ppl)*>  
  
<!--  
  Cited document page, last  
-->  
<!ELEMENT ppl (#PCDATA)>  
  
<!--  
  Cited document page , first  
-->  
<!ELEMENT ppf (#PCDATA)>  
  
<!--  
  Chapter; e.g., in a book. Example: Chapter 2  
-->  
<!ELEMENT chapter (#PCDATA)>
```

```
<!--  
  Serial section  
-->  
<!ELEMENT sersect (#PCDATA)>  
  
<!--  
  Part within a serial  
-->  
<!ELEMENT serpart (#PCDATA)>  
  
<!--  
  Abstract number  
-->  
<!ELEMENT absno (#PCDATA)>  
  
<!--  
  Series statement  
-->  
<!ELEMENT series (text | (mst , msn? , issn?))>  
  
<!--  
  Monographic series number  
-->  
<!ELEMENT msn (#PCDATA)>  
  
<!--  
  Monographic series title  
-->  
<!ELEMENT mst (#PCDATA)>  
  
<!--  
  Edition statement  
  (ST.32:B516)  
-->  
<!ELEMENT edition (#PCDATA)>  
  
<!--  
  Book subtitle  
-->  
<!ELEMENT subtitle (#PCDATA)>  
  
<!--  
  CONFERENCE GROUP / CITATION  
  There is no standard way of citing conference proceedings; date of the conf. may  
  come before or after place, for example. The tags are specified in a set order  
  where it is not possible or correct then simply use <text>  
-->  
<!ELEMENT conference (text | (conftitle , confdate? , confno? , confplace? ,  
  confsponsor*))>  
  
<!--
```

```
-->
<!ELEMENT confdate (date | (sdate , edate))>

<!--
  Conference sponsor
-->
<!ELEMENT confsponsor (#PCDATA | addressbook)*>

<!--
  Conference place
-->
<!ELEMENT confplace (#PCDATA | address)*>

<!--
  Conference number
-->
<!ELEMENT confno (#PCDATA)>

<!--
  Conference title
-->
<!ELEMENT conftitle (#PCDATA)>

<!--
  The title of the cited book
-->
<!ELEMENT book-title (#PCDATA)>

<!--
  Serial citation data:
  This describes the volume or issue as a whole and not a particular article within
  it.
-->
<!ELEMENT serial (sertitle , alttitle? , subname* , issue? , imprint? , pubdate? ,
descrip? , notes? , isbn? , issn? , pubid? , vid? , ino? , cpyrt? , doi?)>

<!--

-->
<!ELEMENT doi (#PCDATA)>

<!--
  Copyright info.  Copyright of publisher of serial
-->
<!ELEMENT cpyrt (#PCDATA)>

<!--
  Issue number
-->
<!ELEMENT ino (#PCDATA)>
```



```
<!--  
  Volume id/number  
-->  
<!ELEMENT vid (#PCDATA)>  
  
<!--  
  Publisher's unique id  
-->  
<!ELEMENT pubid (#PCDATA)>  
  
<!--  
  International Standard Book Number  
-->  
<!ELEMENT isbn (#PCDATA)>  
  
<!--  
  International Standard Serial Number  
-->  
<!ELEMENT issn (#PCDATA)>  
  
<!--  
  Notes about the journal; e.g. Continues Journal of XYZ 1910-1998, published in  
  French and English, etc.  
-->  
<!ELEMENT notes (#PCDATA)>  
  
<!--  
  Physical description - generally NOT used in citations in pats; e.g., v., 27cm  
-->  
<!ELEMENT descrip (#PCDATA)>  
  
<!--  
  Publication date used in npl citations  
-->  
<!ELEMENT pubdate (#PCDATA | sdate | edate | time)*>  
  
<!--  
  Imprint:  
  Publication / creation data  
  Place of publication : publisher, date(s) of publication usually only date of  
  publication is used for journal citations  
-->  
<!ELEMENT imprint (text | (address? , name , pubdate*))>  
  
<!--  
  Time; format HHMM  
-->  
<!ELEMENT time (#PCDATA)>  
  
<!--  
  End date used in pubdate
```

```
-->
<!ELEMENT edate (#PCDATA)>

<!--
  Start date used in pubdate
-->
<!ELEMENT sdate (#PCDATA)>

<!--
  Issue designation; e.g., Annual, 1971-, 1890-1972
-->
<!ELEMENT issue (#PCDATA)>

<!--
  Alternate title for serial; e.g. BMJ = British Medical Journal
-->
<!ELEMENT alttitle (#PCDATA)>

<!--
  Serial title
-->
<!ELEMENT sertitle (#PCDATA)>

<!--
  Article title
-->
<!ELEMENT at1 (#PCDATA)>

<!--
  Relevant passage group within patent; most used in search reports
  - use text in abstract, description and claims
-->
<!ELEMENT rel-passage (text | (passage+ , (category , rel-claims?)*))>

<!--
  Relevant claims
-->
<!ELEMENT rel-claims (#PCDATA)>

<!--
  Category
  (ST.32:B563)
-->
<!ELEMENT category (#PCDATA)>

<!--
  Passage within the cited patent literature
-->
<!ELEMENT passage (#PCDATA)>
```

```
<!--
  br - break, line break within a paragraph
-->
<!ELEMENT br EMPTY>

<!--
  Bold formatting for text
-->
<!ELEMENT b (#PCDATA | i | u | o | smallcaps | sup | sub)*>

<!--
  Italic formatting for text
-->
<!ELEMENT i (#PCDATA | b | u | o | smallcaps | sup | sub)*>

<!--
  Small capitals
-->
<!ELEMENT smallcaps (#PCDATA | b | u | i | o)*>

<!--
  Subscripted text
-->
<!ELEMENT sub (#PCDATA | b | u | i | o | sup2 | sub2)*>

<!--
  Superscripted text
-->
<!ELEMENT sup (#PCDATA | b | u | i | o | sup2 | sub2)*>

<!--
  Subscripted text
-->
<!ELEMENT sub2 (#PCDATA | b | u | i | o)*>

<!--
  Superscripted text
-->
<!ELEMENT sup2 (#PCDATA | b | u | i | o)*>

<!--
  Where the international application claims the priority of several earlier
  applications, the filing date of the earliest application whose priority is
  claimed must be indicated as the priority date.
-->
<!ELEMENT date-of-earliest-priority (date)>

<!--
  Date: components of a date.  Format: YYYYMMDD
-->
<!ELEMENT date (#PCDATA)>
```

```
<!--  
  Document kind code; e.g., A1  
  (INID 13, ST.32:B130)  
-->  
<!ELEMENT kind (#PCDATA)>  
  
<!--  
  The number of the referenced patent (or application) document  
-->  
<!ELEMENT doc-number (#PCDATA)>  
  
<!--  
  Applicant's or agent's file reference, if desired, 12 characters maximum  
-->  
<!ELEMENT file-reference-id (#PCDATA)>  
  
<!--  
  Address used for general correspondence  
-->  
<!ELEMENT correspondence-address (customer-number | addressbook+)>  
  
<!--  
  Customer number for agents by office  
-->  
<!ELEMENT customer-number (#PCDATA)>  
  
<!--  
  Descriptive text  
-->  
<!ELEMENT dtext (#PCDATA)>  
  
<!--  
  Universal Resource Locator; e.g. www.wipo.int  
-->  
<!ELEMENT url (#PCDATA)>  
  
<!--  
  Fax number  
-->  
<!ELEMENT fax (#PCDATA)>  
  
<!--  
  Telephone number  
-->  
<!ELEMENT phone (#PCDATA)>  
  
<!--  
  Electronic address use for other than email  
-->
```

```
<!ELEMENT ead (#PCDATA)>

<!--
  Address components:
  Address formats differ from country to country
  If no structure possible use text
-->
<!ELEMENT address (%address_group;)>

<!--
  If no structure is possible, enter text (without markup)
-->
<!ELEMENT text (#PCDATA)>

<!--
  Country: use ST.3 country code; e.g. DE, FR, GB, NL, etc.
  Also includes EP, WO
-->
<!ELEMENT country (#PCDATA)>

<!--
  Postal code or zip code
-->
<!ELEMENT postcode (#PCDATA)>

<!--
  Region of country; e.g., state, province, etc.
-->
<!ELEMENT state (#PCDATA)>

<!--
  County, parish, department, etc (mainly UK, USA)
-->
<!ELEMENT county (#PCDATA)>

<!--
  City or town name
-->
<!ELEMENT city (#PCDATA)>

<!--
  Street may contain house number or name
-->
<!ELEMENT street (#PCDATA)>

<!--
  Building information in address; e.g., Hoffman building
-->
<!ELEMENT building (#PCDATA)>

<!--
```

```
Address floor; e.g., 10th

-->
<!ELEMENT address-floor (#PCDATA)>

<!--
  Address room; e.g., Room 55B
-->
<!ELEMENT room (#PCDATA)>

<!--
  Post Office Box number
-->
<!ELEMENT pobox (#PCDATA)>

<!--
  Organizational mail code
-->
<!ELEMENT mailcode (#PCDATA)>

<!--
  Address, fifth line
-->
<!ELEMENT address-5 (#PCDATA)>

<!--
  Address, fourth line
-->
<!ELEMENT address-4 (#PCDATA)>

<!--
  Address, third line
-->
<!ELEMENT address-3 (#PCDATA)>

<!--
  Address, second line
-->
<!ELEMENT address-2 (#PCDATA)>

<!--
  Address, first line
-->
<!ELEMENT address-1 (#PCDATA)>

<!--
  Registered number
-->
<!ELEMENT registered-number (#PCDATA)>

<!--
```

```
Synonym

-->
<!ELEMENT synonym (#PCDATA)>

<!--
  Department, division, section, etc. name
-->
<!ELEMENT department (#PCDATA)>

<!--
  Organisation name or company name
-->
<!ELEMENT orgname (#PCDATA)>

<!--
  Role: e.g., President, Chairman, etc.
-->
<!ELEMENT role (#PCDATA)>

<!--
  SDOBI : Individual id
-->
<!ELEMENT iid (#PCDATA)>

<!--
  Name suffix (e.g., II, Jr., Dip., Ing., BA, etc.)
-->
<!ELEMENT suffix (#PCDATA)>

<!--
  Middle name(s) or initial(s)
-->
<!ELEMENT middle-name (#PCDATA)>

<!--
  First or given name(s), initial(s)
-->
<!ELEMENT first-name (#PCDATA)>

<!--
  Last, family, surname
-->
<!ELEMENT last-name (#PCDATA)>

<!--
  Title: e.g., Mr., Mrs., Dr. etc
-->
<!ELEMENT prefix (#PCDATA)>
```



```

                                file          CDATA  #IMPLIED
                                status        CDATA  #IMPLIED
                                id           ID     #IMPLIED
                                country      CDATA  #REQUIRED
                                file-reference-id CDATA  #IMPLIED >

<!--
  A signature represented by electronic means
-->
<!ELEMENT electronic-signature (basic-signature | enhanced-signature)>

<!ATTLIST electronic-signature  date          CDATA  #REQUIRED
                                place-signed CDATA  #IMPLIED >

<!--
  A TIFF image of a signature
-->
<!ELEMENT fax-image EMPTY>

<!ATTLIST fax-image  file CDATA  #REQUIRED >

<!--
  Office(s) to be notified of changes

  Attribute 'office-type'
  Specifies capacity of Office receiving correspondence

  Values:
    RO - Receiving Office
    ISA - International Search Authority
    IPEA - International Preliminary Examination Authority
    IB - International Bureau
-->
<!ELEMENT notify-office (country* , (region , country+)*)>

<!ATTLIST notify-office  office-type  (RO | ISA | IPEA | IB ) #REQUIRED >

<!--
  The contents of notification sent by Applicant to Office
-->
<!ELEMENT wo-notification-doc (text? , doc-page+)>

<!ATTLIST wo-notification-doc  sequence          CDATA  #REQUIRED
                                notification-type  (change-name |
                                                change-address |
                                                change-nationality |
                                                change-residence |
                                                change-person |
                                                withdrawal-application |
                                                withdrawal-designations |
                                                withdrawal-priority-claim |
                                                withdrawal-demand |
                                                withdrawal-elections |
                                                request-early-publication |
                                                change-reference-number |
                                                art19-amendments |
                                                statement-lack-of-signature |
                                                earlier-search-copy |
                                                separate-poa-doc |
                                                correction-declarations |
                                                correction-drawings |
                                                response-notification |
                                                other-notification )
                                #REQUIRED

                                document-name      CDATA  #IMPLIED >
```

```
<!--
doc-page - DOCument or PAGE

This is primarily to be used when data for the whole or major sections of an
application are in image format OR other formats such as pdf.

Page range attributes are given when required
  pp - page range
  ppf - first page
  ppl - last page (for pdf).
The 'img' may also be used for complete pages, e.g. in drawings

Recommended id = docp0001, docp0002, etc.
Attributes "he" and "wi" mean height and width.

-->
<!ELEMENT doc-page EMPTY>

<!ATTLIST doc-page id          ID          #IMPLIED
                  he          CDATA      #REQUIRED
                  wi          CDATA      #REQUIRED
                  type         (jpg | pdf | tif ) #REQUIRED
                  alt          CDATA      #IMPLIED
                  pp           CDATA      #IMPLIED
                  ppf          CDATA      #IMPLIED
                  ppl          CDATA      #IMPLIED
                  file         CDATA      #REQUIRED
                  ocr          CDATA      #IMPLIED
                  color         (color | bw ) #IMPLIED
                  orientation   (portrait | landscape ) 'portrait' >

<!--
  Agent or common representative (Rules 90.1, 90.2)
-->
<!ELEMENT agent (addressbook+)>

<!ATTLIST agent  sequence CDATA #REQUIRED
              rep-type   (agent | attorney | common-representative )
#REQUIRED >

<!--
  Deceased inventor name
-->
<!ELEMENT deceased-inventor (%name_group;)>

<!ATTLIST deceased-inventor  sequence CDATA #IMPLIED
                             lang      CDATA #IMPLIED >

<!--
  The individual or entity responsible for creating the matter that protection is
  sought for.
  (ST.32:B721)
-->
<!ELEMENT inventor (addressbook+ , designated-states?)>

<!ATTLIST inventor  sequence CDATA #REQUIRED
                  designation   (all | all-except-us | us-only | as-
indicated ) #IMPLIED >

<!--
  Applicant information:
  (INID 71, ST.32:B710)

  attributes for applicant
  sequence      : sequence number of each applicant
                  e.g, sequence="1"
-->
```

```
app-type : applicant type
          app-type="applicant" : the applicant is only applicant
          app-type="applicant-inventor" : the applicant is also inventor
designation: This person is applicant for the purpose of:
             designation="all" : all designated states
             designation="all-except-us": all designated states except US
             designation="us-only" : US only
             designation="as-indicated" : the states indicated in
                                         designated-states element
                                         under applicant element

-->
<!ELEMENT applicant (addressbook+ , nationality , residence , us-rights* ,
designated-states? , designated-states-as-inventor?)>

<!ATTLIST applicant sequence CDATA #REQUIRED
                      app-type (applicant | applicant-inventor )
#REQUIRED
                      designation (all | all-except-us | us-only | as-
indicated ) #REQUIRED >

<!--
This person is successor to the rights of an inventor who is deceased, insane, or
legally incapacitated, for the purposes of the designation of the United States
of America

-->
<!ELEMENT us-rights (#PCDATA)>

<!ATTLIST us-rights to-dead-inventor CDATA #REQUIRED
                   kind (heir |
                        heiress |
                        executor |
                        executrix |
                        estate |
                        legal-representative |
                        administrator |
                        administratrix |
                        legal-representatives |
                        heirs |
                        executors |
                        legal-heirs ) #REQUIRED
                   id ID #IMPLIED >

<!--
ADDRESSBOOK GROUP:
Holds name and contact information for individuals/organizations

The LANG attribute is REQUIRED for certain document types,
e.g., the JPO PCT Request where names and addresses may be repeated in two
different languages. If no structure possible use text.

-->
<!ELEMENT addressbook ((%name_group; , address , phone* , fax* , email* , url* ,
ead* , dtext?) | text)>

<!ATTLIST addressbook id ID #IMPLIED
                      lang CDATA #IMPLIED >

<!--
Email address

Attribute:
email-purpose reason for which email address is included:
informal for informal contact only
general for any type of communication
confirmation any type of communication, but formal messages followed up
by conventional mailing (to the extent offered)
main where applicant desires this address to be used as primary
means of contact as a replacement of the use of conventional
```

post (to the extent that an Office offers this)
the default value depends on e-mail policies of the relevant Office.
For PCT purposes as at 1 July 2008, no attribute being included is
equivalent to 'informal'

```
-->
<!ELEMENT email (#PCDATA)>

<!ATTLIST email  email-purpose  (informal | general | advance | main ) #IMPLIED >

<!--
  Application reference information: application number, country
  (INID 21, ST.32:B210)
-->
<!ELEMENT application-reference (document-id)>

<!ATTLIST application-reference  id          ID          #IMPLIED
                                   appl-type  CDATA       #IMPLIED >

<!--
  Document identification refers to patents (and patent applications) only.
  See WIPO ST.14
-->
<!ELEMENT document-id (country , doc-number , kind? , name? , date?)>

<!ATTLIST document-id  lang CDATA #IMPLIED >

<!--
  Name:
  If no distinction or detail can be given.
  Also to be used for: personal (natural person) and corporate (legal entity) names
-->
<!ELEMENT name (#PCDATA)>

<!ATTLIST name  name-type  (legal | natural ) #IMPLIED >

<!--
  Signatories
-->
<!ELEMENT signatories (signatory+)>

<!--
  PCT/RO/101 Box No. X:
  The signature must be that of the applicant (if there are several applicants, all
  must sign); however, the signature may be that of the agent, or the common
  representative, where a separate power of attorney appointing the agent or the
  common representative, respectively, or a copy of a general power of attorney is
  already in possession of the receiving Office, is furnished...
  (PCT Rules 4.1(d), 4.15, and 90)

  Indicate the capacity of the signer with 'signatory-capacity'
-->
<!ELEMENT signatory (%name_group; , address? , electronic-signature , signatory-
capacity?)>

<!ATTLIST signatory
           id ID #IMPLIED>

<!--
  The capacity in which the person signs
-->
<!ELEMENT signatory-capacity (#PCDATA)>
```

```
<!--
  A PKI / PKCS #7 digital signature data type
-->
<!ELEMENT enhanced-signature (pkcs7)>

<!--
  PKCS7 digital signature
-->
<!ELEMENT pkcs7 EMPTY>

<!--
  A non-PKI electronic signature
-->
<!ELEMENT basic-signature (fax-image | text-string | click-wrap)>

<!--
  A simple 'signature';
  e.g., clicking a button labeled 'accept' or 'I agree'
-->
<!ELEMENT click-wrap EMPTY>

<!--
  A simple text string is to be used as the basic electronic signature;
  e.g., John Doe <text-string>/jd/</text-string>
-->
<!ELEMENT text-string (#PCDATA)>

<!--
  The date any proposed changes would take effect.
-->
<!ELEMENT effective-date (date)>

<!--
  PCT/RO/101 Box No.II, III and IV APPLICANTS, FURTHER APPLICANT(S)
  AND/OR (FURTHER) INVENTOR(S)AGENT OR COMMON REPRESENTATIVE;
  OR ADDRESS FOR CORRESPONDENCE (PCT Rule 4.5, 4.6, 4.7, 4.8)
  (INID 70, ST.32:B700)
-->
<!ELEMENT parties (applicants , inventors? , correspondence-address? , agents?)>

<!--
  Information regarding Agents or common representatives
-->
<!ELEMENT agents (customer-number | agent+)>

<!--
  Address used for general correspondence
-->
<!ELEMENT correspondence-address (customer-number | addressbook+)>
```

```
<!--
  Customer number for agents by office
-->
<!ELEMENT customer-number (#PCDATA)>

<!--
  Inventors information:
  If the US is designated, all of the inventors must also be named as applicants
  for purposes of that designation.
-->
<!ELEMENT inventors (inventor | deceased-inventor)+>

<!--
  Applicants information:
  At least one of the applicants named must be a resident or national of a PCT
  Contracting State for which the receiving Office acts.
-->
<!ELEMENT applicants (applicant+)>

<!--
  Rule 4.6(c):
  "The request may, for different designated states, indicate different persons
  as inventors where, in this respect, the requirements of the national laws of
  the designated States are not the same. In such a case, the request shall
  contain a separate statement for each designated State or group of States in
  which a particular person, or the same person, is to be considered the
  inventor, or in which particular persons, or the same persons, are to be
  considered the inventors."
-->
<!ELEMENT designated-states-as-inventor (country* , (region , country+)*>

<!--
  Indication of specific Contracting States in or for which the applicant is
  seeking protection for his invention
  (Rule 4.9(a))
-->
<!ELEMENT designated-states (country* , (region , country+)*>

<!--
  The region for which protection or exclusion (depending upon context) is desired.
-->
<!ELEMENT region (country)>

<!--
  Country of residence
-->
<!ELEMENT residence (country)>

<!--
  Country of nationality
-->
<!ELEMENT nationality (country)>

<!--
```

```
Descriptive text

-->
<!ELEMENT dtext (#PCDATA)>

<!--
  Universal Resource Locator; e.g. www.wipo.int
-->
<!ELEMENT url (#PCDATA)>

<!--
  Fax number
-->
<!ELEMENT fax (#PCDATA)>

<!--
  Telephone number
-->
<!ELEMENT phone (#PCDATA)>

<!--
  Electronic address use for other than email
-->
<!ELEMENT ead (#PCDATA)>

<!--
  Address components:
  Address formats differ from country to country
  If no structure possible use text
-->
<!ELEMENT address (%address_group;)>

<!--
  If no structure is possible, enter text (without markup)
-->
<!ELEMENT text (#PCDATA)>

<!--
  Postal code or zip code
-->
<!ELEMENT postcode (#PCDATA)>

<!--
  Region of country; e.g., state, province, etc.
-->
<!ELEMENT state (#PCDATA)>

<!--
  County, parish, department, etc (mainly UK, USA)
-->
<!ELEMENT county (#PCDATA)>
```

```
<!--  
  City or town name  
-->  
<!ELEMENT city (#PCDATA)>  
  
<!--  
  Street may contain house number or name  
-->  
<!ELEMENT street (#PCDATA)>  
  
<!--  
  Building information in address; e.g., Hoffman building  
-->  
<!ELEMENT building (#PCDATA)>  
  
<!--  
  Address floor; e.g., 10th  
-->  
<!ELEMENT address-floor (#PCDATA)>  
  
<!--  
  Address room; e.g., Room 55B  
-->  
<!ELEMENT room (#PCDATA)>  
  
<!--  
  Post Office Box number  
-->  
<!ELEMENT pobox (#PCDATA)>  
  
<!--  
  Organizational mail code  
-->  
<!ELEMENT mailcode (#PCDATA)>  
  
<!--  
  Address, fifth line  
-->  
<!ELEMENT address-5 (#PCDATA)>  
  
<!--  
  Address, fourth line  
-->  
<!ELEMENT address-4 (#PCDATA)>  
  
<!--  
  Address, third line  
-->  
<!ELEMENT address-3 (#PCDATA)>
```



```
<!--  
  Address, second line  
-->  
<!ELEMENT address-2 (#PCDATA)>  
  
<!--  
  Address, first line  
-->  
<!ELEMENT address-1 (#PCDATA)>  
  
<!--  
  Registered number  
-->  
<!ELEMENT registered-number (#PCDATA)>  
  
<!--  
  Synonym  
-->  
<!ELEMENT synonym (#PCDATA)>  
  
<!--  
  Department, division, section, etc. name  
-->  
<!ELEMENT department (#PCDATA)>  
  
<!--  
  Organisation name or company name  
-->  
<!ELEMENT orgname (#PCDATA)>  
  
<!--  
  Role; e.g., President, Chairman, etc.  
-->  
<!ELEMENT role (#PCDATA)>  
  
<!--  
  SDOBI : Individual id  
-->  
<!ELEMENT iid (#PCDATA)>  
  
<!--  
  Name suffix (e.g., II, Jr., Dip., Ing., BA, etc.)  
-->  
<!ELEMENT suffix (#PCDATA)>  
  
<!--  
  Middle name(s) or initial(s)  
-->  
<!ELEMENT middle-name (#PCDATA)>
```

```
<!--  
  First or given name(s), initial(s)  
-->  
<!ELEMENT first-name (#PCDATA)>  
  
<!--  
  Last, family, surname  
-->  
<!ELEMENT last-name (#PCDATA)>  
  
<!--  
  Title: e.g., Mr., Mrs., Dr. etc  
-->  
<!ELEMENT prefix (#PCDATA)>  
  
<!--  
  Date: components of a date.  Format: YYYYMMDD  
-->  
<!ELEMENT date (#PCDATA)>  
  
<!--  
  Document kind code; e.g., A1  
  (INID 13, ST.32:B130)  
-->  
<!ELEMENT kind (#PCDATA)>  
  
<!--  
  The number of the referenced patent (or application) document  
-->  
<!ELEMENT doc-number (#PCDATA)>  
  
<!--  
  Country: use ST.3 country code; e.g. DE, FR, GB, NL, etc.  
  Also includes EP, WO  
-->  
<!ELEMENT country (#PCDATA)>
```

5.12 Informations concernant une demande

```
<?xml version='1.0' encoding='UTF-8' ?>  
  
<!--application-info  
This tag provides a container for any general information concerning an  
application.  
-->  
<!ELEMENT application-info (file-reference-id?,application-reference,  
  date-of-earliest-priority?,applicant-name,classifications-ipcr,  
  classification-national*) >  
  
<!--Applicant's or agent's file reference, if desired,  
-->  
<!ELEMENT file-reference-id (#PCDATA) >  
  
<!--*****
```

```
Application reference information: application number, country
(INID 21, ST.32:B210)
In case of a filing reference, the kind code is empty and the date refers to
the filing date
-->
<!ELEMENT application-reference (document-id) >

<!ATTLIST application-reference
      id ID      #IMPLIED
      appl-type CDATA  #IMPLIED >

<!--Where the international application claims the priority of several earlier
applications, the filing date of the earliest application whose priority is
claimed must be indicated as the priority date.
-->
<!ELEMENT date-of-earliest-priority (date) >

<!--+++++
** EPO - Old Form 1507; new layout:

<application-reference> <document-id> - application number
followed by:
The name of the applicant (without address information)
(ST.32:B711)

Example:
<applicant-name><name>IVECO S.P.A.</name></applicant-name>
-->
<!ELEMENT applicant-name ((name | (prefix?,(last-name | orgname),first-name?,
      middle-name?,first-last-name?,second-last-name?,suffix?,iid?,role?,
      orgname?,department?,synonym*)),registered-number?) >

<!--*****
Classification IPCR - NEW IPCR8
(INID 53, ST.32:B530)
-->
<!ELEMENT classifications-ipcr (classification-ipcr+) >

<!ATTLIST classifications-ipcr
      id ID      #IMPLIED >

<!--
      Domestic or national classification.
      (INID 52, ST.32:B520)

@scheme-name:
This attribute is used when it is necessary to distinguish between different
classification schemes
which may be in use at the same Office. In general, abbreviated forms should be
used where they
are widely recognized, for example scheme-name="CPC" for the Cooperative Patent
Classification.

-->
<!ELEMENT classification-national (country , edition? , main-classification ,
further-classification* , (additional-info | linked-indexing-code-group | unlinked-
indexing-code)* , text?)>

<!ATTLIST classification-national id ID #IMPLIED
      scheme-name CDATA #IMPLIED>

<!--Document identification refers to patents (and patent applications) only. See
WIPO ST.14-->
<!ELEMENT document-id (country,doc-number,kind?,name?,date?) >

<!ATTLIST document-id
      lang CDATA  #IMPLIED >

<!--Date: components of a date. Format: YYYYMMDD-->
```

```
<!ELEMENT date (#PCDATA) >

<!--Name: If no distinction or detail can be given. Also to be used for: personal
(natural person) and corporate (legal entity) names-->
<!ELEMENT name (#PCDATA) >

<!ATTLIST name
      name-type (legal | natural) #IMPLIED >

<!--Title: e.g., Mr., Mrs., Dr. etc-->
<!ELEMENT prefix (#PCDATA) >

<!--Last, family, surname-->
<!ELEMENT last-name (#PCDATA) >

<!--Organisation name or company name-->
<!ELEMENT orgname (#PCDATA) >

<!--First or given name(s), initial(s)-->
<!ELEMENT first-name (#PCDATA) >

<!--Middle name(s) or initial(s)-->
<!ELEMENT middle-name (#PCDATA) >

<!--First last name (father's family surname), for some countries (such as Spain)
is legally mandatory.
-->
<!ELEMENT first-last-name (#PCDATA) >

<!--Second last name (mother's family surname), for some countries (such as Spain)
is legally mandatory.
-->
<!ELEMENT second-last-name (#PCDATA) >

<!--Name suffix (e.g., II, Jr., Dip., Ing., BA, etc.)-->
<!ELEMENT suffix (#PCDATA) >

<!--SDOBI : Individual id-->
<!ELEMENT iid (#PCDATA) >

<!--Role; e.g., President, Chairman, etc.-->
<!ELEMENT role (#PCDATA) >

<!--Department, division, section, etc. name-->
<!ELEMENT department (#PCDATA) >

<!--Synonym-->
<!ELEMENT synonym (#PCDATA) >

<!--Registered number-->
<!ELEMENT registered-number (#PCDATA) >

<!--*****
* IPC DATA - NEW IPC8
*****
International Patent Classification (IPC) data;
- to be implemented in 2006
- use B510 for until week 52, 2005
- see: http://www.wipo.int/scit/en/standards/pdf/03-08-01.pdf:

Industrial property offices are asked to implement this new version of Standard
ST.8 for
all patent documents with a publication date from January 1, 2006, onwards. For
patent
documents published prior to that date, the previous version of the Standard should
continue to be used.
. . .
This recording convention provides that symbols of the International Patent
Classification (IPC) should be
presented on machine-readable records for the exchange of information in
```

machine-readable form in a fixed-length field in 50 positions, each part of the Int. Cl. symbol being recorded in specific positions and in the manner prescribed.

- this can be recorded within the <text> tag.

Position(s) Content Values

1 Section A-H
 2 to 3 Class 01-99
 4 Subclass A-Z
 5 to 8 Main Group (right aligned) 1-9999, blank
 9 Separating character / ("Slash")
 10 to 15 Subgroup (left aligned) 00-999999 blank
 16 to 19 For future use 4 blanks
 20 to 27 Version indicator YYYYMMDD date format
 28 Classification level C, A, S
 29 First or later position of symbol F, L
 30 Classification value (inventive or non-inventive) I, N
 31 to 38 Action date YYYYMMDD date format
 39 Original or reclassified data BRVD
 40 Source of classification data H M G
 41-42 Generating office AA ZZ (ST.3)
 43-50 For future use 8 blanks

EPO usage:

- we will NOT use the detailed element markup as listed below (it is far too heavy)
 - we will use "a fixed-length field in 50 positions" as specified above

EPO layout:

- for the title page to be determined

Example:

```
<B510EP>
<classification-ipcr sequence="1">
<text>B28B...5/00.....20060101AFI20070601BHEP.....</text>
</classification-ipcr>
</B510EP>

-->
<!ELEMENT classification-ipcr ((ipcr-version-indicator,classification-level?,
section,class,subclass,main-group?,subgroup?,symbol-position?,
classification-value?,action-date?,generating-office?,
classification-status?,classification-data-source?) | text) >

<!ATTLIST classification-ipcr
id ID #IMPLIED
sequence CDATA #IMPLIED >

<!--
International Patent Classification (IPC) data;
(INID 51, ST.32:B510)

-->
<!ELEMENT classification-ipc (edition , main-classification , further-
classification* , (additional-info | linked-indexing-code-group | unlinked-
indexing-code)* , text?)>

<!ATTLIST classification-ipc id ID #IMPLIED >

<!--Country: use ST.3 country code; e.g. DE, FR, GB, NL, etc. Also includes EP,
WROP-->
<!ELEMENT country (#PCDATA) >

<!--The number of the referenced patent (or application) document-->
<!ELEMENT doc-number (#PCDATA) >

<!--Document kind code; e.g., A1 (INID 13, ST.32:B130)-->
<!ELEMENT kind (#PCDATA) >
```

```
<!--Positions 20 to 27: Version indicator
Although in the paper publications a version indicator may contain
four or six digits, the version indicator in machinereadable
records contains eight digits, namely YYYYMMDD with Y for year, M for month and D
for day.
-->
<!ELEMENT ipc-version-indicator (date) >

<!--Position 28 : Classification level
Offices are expected to classify each subject matter only in one level (core or
advanced).
However, both levels need to be completely represented in the master classification
database
and thus a level indicator is needed. The level indicator is also useful for
indicating
situations where an office does not classify in either the core or the advanced
level
classification, i.e., when an office only assigns classifications to the subclass
level.
The level indicator enables to make the difference between core, advanced and
subclass levels.
The letters C (Core), A (Advanced) and S (Subclass) are
used for this one-digit field.

Levels: ipcr-advanced, ipcr-core
-->
<!ELEMENT classification-level (#PCDATA) >

<!--Positions 1 to 19: Recording of the parts of the IPC symbols
IPC symbols are defined in Part 5 of the WIPO Handbook on
Industrial Property Information and Documentation and in
the latest version of the Guide to the IPC.
-->
<!ELEMENT section (#PCDATA) >

<!--Classification code; e.g., ipc, dewey etc.-->
<!ELEMENT class (#PCDATA) >

<!ATTLIST class
        class-type CDATA #IMPLIED >

<!ELEMENT subclass (#PCDATA) >

<!ELEMENT main-group (#PCDATA) >

<!ELEMENT subgroup (#PCDATA) >

<!--Position 29: First or later position of symbols
The position of the first invention information classification
can be recognized by this field. The letters F and L are used
for first and later position, respectively.
-->
<!ELEMENT symbol-position (#PCDATA) >

<!--Position 30: Classification value (inventive or non-inventive)
The difference between invention information and other information
is important for the retrieval of the information. The
letters I and N are used for the invention and non-invention
information, respectively.
-->
<!ELEMENT classification-value (#PCDATA) >

<!--Positions 31-38: Action date
The date of assigning the classification symbol (action date)
is represented by eight digits, namely YYYYMMDD. This
date can be used to check if a classification needs to be
reviewed after revision of the scheme, e.g., in case of creating
new subdivisions.
-->
```

```
<!ELEMENT action-date (date) >

<!--Positions 41-42: Generating Office
Since part of the original data in the advanced level and
the reclassified data can be delivered by offices other than the
publishing office, the information source of such data is
recorded by a field of two characters. The country or office
code CC, as defined by WIPO Standard ST.3, must be used.
-->
<!ELEMENT generating-office (country) >

<!--Position 39: Original and reclassified data
Original data is the first data assigned to the document.
In case of a publishing office assigning classification symbols at
the core level, another office may also assign symbols at
the advanced level as original data.
Reclassified data is data changed due to a change in the classification schemes.
Various data is data changed due to an incidental reclassification
of an individual document, such as the correction of a mistake.
Deleted data is data which has to be deleted from the
Master Classification Database, due to a change in assigning of
classification symbols to a document.

The indication of the different types of data is marked by the letters B for the
basic or original data,
R for reclassified data, V for various incidental changes, and D for data to be
deleted.
Possible status: original-classification, reclassified, various-classification,
deleted-classification
-->
<!ELEMENT classification-status (#PCDATA) >

<!--Position 40: Source of classification data
The following sources of classification data are foreseen:
- Intellectual classification by persons,
value H for human generated data.
- Machine classification by the propagation of earlier
intellectual classification through the use of common
priorities in the patent application.
The value M is used in this case and will facilitate later corrections.
- Classification symbols generated by software using automatic
analysis of the content of the patent document.
The letter G is used to indicate this source of generated data.
-->
<!ELEMENT classification-data-source (#PCDATA) >

<!--If no structure is possible, enter text (without markup)-->
<!ELEMENT text (#PCDATA) >

<!--Address components: Address formats differ from country to country If no
structure possible use text-->
<!ELEMENT address ((address-1?,address-2?,address-3?,address-4?,address-5?,
mailcode?,pobox?,room?,address-
floor?,building?,street?,city?,county?,
state?,postcode?,country) | text) >

<!--Address, first line-->
<!ELEMENT address-1 (#PCDATA) >

<!--Address, second line-->
<!ELEMENT address-2 (#PCDATA) >

<!--Address, third line-->
<!ELEMENT address-3 (#PCDATA) >

<!--Address, fourth line-->
<!ELEMENT address-4 (#PCDATA) >

<!--Address, fifth line-->
<!ELEMENT address-5 (#PCDATA) >
```

```
<!--Address floor; e.g., 10th-->
<!ELEMENT address-floor (#PCDATA) >

<!--ADDRESSBOOK GROUP: Holds name and contact information for
individuals/organizations The LANG attribute is REQUIRED for certain document
types, e.g., the JPO PCT Request where names and addresses may be repeated in two
different languages. If no structure possible use text.-->
<!ELEMENT addressbook (((name | (prefix?,(last-name | orgname),first-name?,
middle-name?,first-last-name?,second-last-name?,suffix?,iid?,role?,
orgname?,department?,synonym*)),registered-number?),address,phone*,
fax*,email*,url*,ead*,dtext?) | text) >

<!ATTLIST addressbook
    id ID #IMPLIED
    lang CDATA #IMPLIED >

<!--Assistant Examiner.
(ST.32:B747)
-->
<!ELEMENT assistant-examiner (((name | (prefix?,(last-name | orgname),first-name?,
middle-name?,first-last-name?,second-last-name?,suffix?,iid?,role?,
orgname?,department?,synonym*)),registered-number?),phone?,fax?,
email?,electronic-signature?) >

<!--Authorized Officer.
-->
<!ELEMENT authorized-officer (((name | (prefix?,(last-name | orgname),first-name?,
middle-name?,first-last-name?,second-last-name?,suffix?,iid?,role?,
orgname?,department?,synonym*)),registered-number?),phone?,fax?,
email?,electronic-signature?) >

<!--A non-PKI electronic signature
-->
<!ELEMENT basic-signature (fax-image | text-string | click-wrap) >

<!--Building information in address; e.g., Hoffman building-->
<!ELEMENT building (#PCDATA) >

<!--City or town name-->
<!ELEMENT city (#PCDATA) >

<!--A simple 'signature';
e.g., clicking a button labeled 'accept' or 'I agree'
-->
<!ELEMENT click-wrap EMPTY >

<!--communication-info
Information about the communication of data
-->
<!ELEMENT communication-info (completion-date?,date-of-mailing,office-admin,
type-of-notification,examiners?,list-of-copies?) >

<!--completion-date
-->
<!ELEMENT completion-date (date) >

<!--copy-to
The copy of the document was sent to another office in the following roles:
- ib : International Bureau
- ro : Receiving Office (PCT)
- isa : International Search Authority
- sisa : Supplementary International Search Authority
- ipea : International Preliminary Examination Authority
- do : Designated Office (PCT Chapter I)
- eo : Elected Office (PCT - Chapter II)
- other : to be specified in role-other, intended for national use
-->
<!ELEMENT copy-to (correspondence-address) >
```



```
<!ATTLIST copy-to
    copy-to-role (ib | ro | isa | sisa | ipea | do | eo | other)
    #REQUIRED
    role-other CDATA #IMPLIED >

<!--Address used for general correspondence-->
<!ELEMENT correspondence-address (customer-number | addressbook+) >

<!--County, parish, department, etc (mainly UK, USA)-->
<!ELEMENT county (#PCDATA) >

<!--Customer number for agents by office-->
<!ELEMENT customer-number (#PCDATA) >

<!--Date of mailing:
-->
<!ELEMENT date-of-mailing (date) >

<!--Descriptive text-->
<!ELEMENT dtext (#PCDATA) >

<!--Electronic address use for other than email-->
<!ELEMENT ead (#PCDATA) >

<!--***
A signature represented by electronic means
-->
<!ELEMENT electronic-signature (basic-signature | enhanced-signature) >

<!ATTLIST electronic-signature
    date CDATA #REQUIRED
    place-signed CDATA #IMPLIED >

<!--Email address Attribute: email-purpose reason for which email address is
included: informal for informal contact only general for any type of communication
confirmation any type of communication, but formal messages followed up by
conventional mailing (to the extent offered) main where applicant desires this
address to be used as primary means of contact as a replacement of the use of
conventional post (to the extent that an Office offers this) the default value
depends on e-mail policies of the relevant Office. For PCT purposes as at 1 July
2008, no attribute being included is equivalent to 'informal'-->
<!ELEMENT email (#PCDATA) >

<!ATTLIST email
    email-purpose (informal | general | advance | main) #IMPLIED >

<!--A PKI / PKCS #7 digital signature data type
-->
<!ELEMENT enhanced-signature (pkcs7) >

<!--Persons acting on the document.
(ST.32:B745)
-->
<!ELEMENT examiners (primary-examiner?,assistant-examiner?,senior-examiner?,
    legal-member?,authorized-officer?,address?) >

<!--Fax number-->
<!ELEMENT fax (#PCDATA) >

<!--A TIFF image of a signature
-->
<!ELEMENT fax-image EMPTY >

<!ATTLIST fax-image
    file CDATA #REQUIRED >

<!ELEMENT important EMPTY >

<!ELEMENT information EMPTY >
```

```
<!--Legal Member
EPO: chairman of the examining division
-->
<!ELEMENT legal-member (((name | (prefix?,(last-name | orgname),first-name?,
middle-name?,first-last-name?,second-last-name?,suffix?,iid?,role?,
orgname?,department?,synonym*)),registered-number?),phone?,fax?,
email?,electronic-signature?) >

<!--list-of-copies
List of all addressees to which copies are sent.
The correspondance-address is for the main addressee, the copy-to elements
are used for additional copies sent.
-->
<!ELEMENT list-of-copies (correspondence-address,copy-to*) >

<!--Organizational mail code-->
<!ELEMENT mailcode (#PCDATA) >

<!--office-admin
Provides the correspondence address of the drafting office.
-->
<!ELEMENT office-admin (addressbook) >

<!--payment due
According the type limit, payment due within a period or by a certain date.
-->
<!ELEMENT payment-due (time-limit) >

<!--Telephone number-->
<!ELEMENT phone (#PCDATA) >

<!--PKCS7 digital signature
-->
<!ELEMENT pkcs7 EMPTY >

<!--Post Office Box number-->
<!ELEMENT pobox (#PCDATA) >

<!--Postal code or zip code-->
<!ELEMENT postcode (#PCDATA) >

<!--Primary Examiner.
(ST.32:B746)
-->
<!ELEMENT primary-examiner (((name | (prefix?,(last-name | orgname),first-name?,
middle-name?,first-last-name?,second-last-name?,suffix?,iid?,role?,
orgname?,department?,synonym*)),registered-number?),phone?,fax?,
email?,electronic-signature?) >

<!--reply due
According the type limit, reply due within a period or by a certain date.
-->
<!ELEMENT reply-due (time-limit) >

<!ATTLIST reply-due
    reply-to (ib | ro | isa | sisa | ipea | do | eo | other) #IMPLIED
    reply-to-other CDATA #IMPLIED >

<!--for-further-action
The next action depends on the procedural context.
Text might be added to refer to an item in the text, in the forms or other forms.
-->
<!ELEMENT for-further-action (#PCDATA) >

<!--Address room; e.g., Room 55B-->
<!ELEMENT room (#PCDATA) >

<!--Senior Examiner.
EPO: chairman of the examining division
```

```
-->
<!ELEMENT senior-examiner (((name | (prefix?,(last-name | orgname),first-name?,
middle-name?,first-last-name?,second-last-name?,suffix?,iid?,role?,
orgname?,department?,synonym*)),registered-number?),phone?,fax?,
email?,electronic-signature?) >

<!--Region of country; e.g., state, province, etc.-->
<!ELEMENT state (#PCDATA) >

<!--Street may contain house number or name-->
<!ELEMENT street (#PCDATA) >

<!--A simple text string is to be used as the basic electronic signature;
e.g., John Doe <text-string>/jd/</text-string>
-->
<!ELEMENT text-string (#PCDATA) >

<!ELEMENT time-limit (#PCDATA) >

<!ATTLIST time-limit
    period (date | months | weeks | days) #IMPLIED >

<!--type-of-notification
Indicates the type of notification for the applicant.
-->
<!ELEMENT type-of-notification (information | important | for-further-action |
reply-due | payment-due) >

<!--Universal Resource Locator; e.g. www.wipo.int-->
<!ELEMENT url (#PCDATA) >

<!--
Main classification.
(ST.32:B511/B521)
-->
<!ELEMENT main-classification (#PCDATA)>

<!--
Further/secondary classification
(ST.32:B512/B522)
-->
<!ELEMENT further-classification (#PCDATA)>

<!ATTLIST further-classification id ID #IMPLIED
sequence CDATA #IMPLIED >

<!--
Linked indexing code.
(ST.32:B514/B524)
-->
<!ELEMENT linked-indexing-code-group (main-linked-indexing-code , sub-linked-
indexing-code+)>

<!--
Sub/further Linked Indexing Code.
-->
<!ELEMENT sub-linked-indexing-code (#PCDATA)>

<!--
Main Linked Indexing Code.
-->
<!ELEMENT main-linked-indexing-code (#PCDATA)>
```

```
<!--  
  Unlinked indexing code.  
    (ST.32:B515/B525)  
-->  
<!ELEMENT unlinked-indexing-code (#PCDATA)>
```

5.13 *Opinion écrite de l'administration chargée de examen préliminaire international*

```
<?xml version='1.0' encoding='UTF-8' ?>  
  
<!--WRITTEN OPINION  
  
This construction is intended to capture all communications from an examiner to  
an applicant concerning an application typically referred as written opinions  
or examination reports. The DTD could also cover minutes of telephone  
conversation or other formal meetings with the applicant.  
  
Contacts:  
  
WIPO: Yuya USHIDA; yuya.ushida@wipo.int  
  
For details about PCT Annex F and about all Annex F DTDs see:  
http://www.wipo.int/pct-safe/en/resources/ and for PFCs see:  
http://www.wipo.int/efiling\_standard/en  
  
### Version 1.0 ###  
  
- Added <clasification-national> to <application-info>  
- Updated child elements and attributes under <citation>  
  
### Version 0.96 ###  
  
- ADDED  
<iprp-rectifications-not-authorized> to <iprp-annexes-sheet>  
  
### Version 0.95 ###  
  
- ADDED  
"@form-version" to <written-opinion>  
  
### Version 0.94 ###  
  
- ADDED  
* Added "@status" and "@office" to <written-opinion>  
  
### Version 0.93 ###  
  
- ADDED  
* <top-up-search-carried-out> and <no-top-up-search-carried-out> to <application-  
documents>  
  in order to update the DTD in align with PCT C.1400.  
  
### Version 0.9 ###  
  
Simplified non-establishment-of-opinion  
  
### Version 0.7 ###  
  
- MODIFIED  
* introduced info-dtd  
* rendered modular to ST.36/Ann F by introducing written-opinion-components  
  
### Version 0.6 ###  
  
- MODIFIED
```

```
* written-opinion-admin brought in-line with info.dtd (PCT Forms discussions)
Only with needed tags for opinions
* additional-info: cardinality of p to +

- ADDED
* office-admin in communication-info
* attributes id and level to heading

- REMOVED
* invention-to-be-selected-by-applicant
In first communication the examiner may defer a detailed reasoning until the
applicant has indicated on which invention he wishes the procedure to be based
on.
Intended for future use in PCT/ISA/206
EPO/JPO/WIPO : to be added in country specific implementation
<!ELEMENT invention-to-be-selected-by-applicant EMPTY >
* invention-title
* date-of-actual-receipt
-->

<!--
*****
SECTION WRITTEN-OPINION DTD
This section contains the tags specific to the written opinion.
*****

written-opinion
Root element for the written opinion.
The doc-page element has been included to capture communications that
would not be produced in XML.
It suggested to have all paragraphs numbered consecutively as they appear.

Attributes:

id
This uniquely identifies each communication. Its usage is required in a
file wrapper but not for the transmittal of a single opinion.<br/>
Recommended values: wo-01, wo-02, ...

num
Sequence number.

lang
Language of the present written opinion. Use two letter code (ST.3)

dtd-version
Version of the DTD used for drafting the file, e.g. written-opinion-v1-0.dtd.

procedure
Code of the procedure, suggested value: country code

phase
Phase during which the opinion is issued, e.g.: search, examination,
opposition, appeal, ...

opinion-type
Type of report, e.g.: woisa, iper, examination report (exre), ...

status
Status of WOSA, e.g. new, corrected.

office
Code of an office who made WOSA, e.g. EP, CN, JP, etc

form-version
form version number. e.g. "201501"
.....
The following attributes are used extensively accross the DTD and are addressed
once here (specific examples may be provided for each element using these.
```

id
Unique identifier, must be unique in each XML instance.
It is suggested to use a tree approach wherein the id of child element is the id of the parent element further completed by the corresponding id.

idref or idrefs
Cross-reference to an element or elements within the XML instance by means of their ids.

gidref or gidrefs
Cross-reference to an element or elements outside the XML instance by means of their of a global identifier of said elements.

legal-basis and legal-source
Paragraph, article or rule in a legal source relevant for the element.
Suggest values:
Articles : a(followed by the legal number format up to the desired level)
Rules : r(followed by the legal number format up to the desired level)
Paragraphs: use by the legal number format up to the desired level

The legal source should be identified by its commonly agreed acronym (e.g. patent cooperation treaty - PCT, european patent convention - EPC, ...) in lower case followed by its version (either a sequence number or a date in the format YYYY[MM[DD]]).

Examples:
Article 19(1) of the PCT (modified October 3, 2001)
legal-basis="a19(1)" legal-source="pct-20011003"

Rule 86(2) EPC 2000
legal-basis="r86(2)" legal-source="epc-2000"

!!! place root element first for viewers
-->
<!ELEMENT written-opinion (written-opinion-admin,(doc-page+ | (heading*,p+)+ | (written-opinion-request+,conclusion?)),citations?, annexed-documents?) >

<!ATTLIST written-opinion
id ID #IMPLIED
num CDATA #IMPLIED
lang CDATA #IMPLIED
dtd-version CDATA #IMPLIED
procedure CDATA #REQUIRED
phase CDATA #REQUIRED
opinion-type CDATA #REQUIRED
status (new | corrected) 'new'
office CDATA #IMPLIED
form-version CDATA #IMPLIED >

<!-- INCLUDE PARENT DTDs -->
<!ENTITY % written-opinion-components PUBLIC "-//WIPO//WRITTEN OPINION COMP 0.5//EN" "written-opinion-components-v1-0.dtd">
%written-opinion-components;

5.14 Composants de l'opinion écrite de l'administration chargée d'examen préliminaire internationale

```
<?xml version='1.0' encoding='UTF-8' ?>

<!--
*****

The written opinion DTD is larger than needed by Ann F, for this reason
it has been rendered customizable by separating the DTD from the components.
```

Before instantiating the components declare the following entity:

- for the full set of components (ST.36) :

Nothing to do

- for the Ann F version:

```
<!ENTITY % ST36.DTD "IGNORE">
<!ENTITY % ANNF.DTD "INCLUDE">
```

```
*****
-->
```

<!--WRITTEN OPINION

This construction is intended to capture all communications from an examiner to an applicant concerning an application typically referred as written opinions or examination reports. The DTD could also cover minutes of telephone conversation or other formal meetings with the applicant.

Contacts:

Yuya USHIDA; yuya.ushida@wipo.int

For details about PCT Annex F and about all Annex F DTDs see:
<http://www.wipo.int/pct-safe/en/resources/> and for PFCs see:
http://www.wipo.int/efiling_standard/en

Version 1.0

- ADDED
<clasification-national> to <application-info>

Version 0.7

- MODIFIED
* introduced entities to enable customization
* cut in modules: info, components and written-opinion

Version 0.6

- MODIFIED
* written-opinion-admin brought in-line with info.dtd (PCT Forms discussions)
Only with needed tags for opinions
* additional-info: cardinality of p to +

- ADDED
* office-admin in communication-info
* attributes id and level to heading

- REMOVED
* invention-to-be-selected-by-applicant

In first communication the examiner may defer a detailed reasoning until the applicant has indicated on which invention he wishes the procedure to be based on.

Intended for future use in PCT/ISA/206

EPO/JPO/WIPO : to be added in country specific implementation

```
<!ELEMENT invention-to-be-selected-by-applicant EMPTY >
* invention-title
* date-of-actual-receipt
```

Version 0.3

Changed non-establishment-of-opinion (simplification)

Version 0.1

Created written-opinion-components based on written-opinion-0.6

```

-->

<!-- info.dtd
Import info DTD for the header/footer components.

  QUESTION: To be added here or with the main DTD ?
-->

<!ENTITY % info_st36 PUBLIC "-//WIPO//FORMS INFO 1.0//EN" "info-v1-0.dtd">
%info_st36;

<!--
  DTD MathML2: maintained by W3C.  Download from:
    http://www.w3.org/TR/MathML2/DTD-MathML-20010221.zip

  If using nsgmls-based parser (SP, Near & Far Designer, etc.)
  Uncomment 'mathml-charent-module' switch below or replace the Referenced
  MathML2 DTD with the version downloadable from:
    http://www.w3.org/Math/DTD/dtd-sp.zip

  This notice copied from: http://www.w3.org/Math/DTD/

  "DTD for nsgmls
  Some systems (including the popular nsgmls parser) may not be able to
  process files using 'plane 1' characters which have Unicode numbers
  higher than #xFFFF. The versions of the DTD provided here incorporate
  the modifications mentioned above, but the high characters are replaced
  by the equivalent mchar construct <mchar name="..." /> this allows the
  DTD to be read and for MathML files to be validated using such systems."

  ENTITY % mathml-charent.module "IGNORE"

Defaults:

<!ENTITY % MATHML.prefixed "IGNORE">

<!ENTITY % MATHML.xmlns "">
-->

<!--
The EPO limits the attributes of the element math as follows:

  display (block | inline) "inline"

  The following common attributes are not used

      MATHML.xmlns.attrib
      %MATHML.NamespaceDecl.attrib;
      %XLINK.prefix;:href    CDATA          #IMPLIED
      %XLINK.prefix;:type    CDATA          #IMPLIED

-->
<!ENTITY % att-topinfo "display (block | inline) 'inline'">
<!ENTITY % att-browif "" >
<!-- Attributes shared by all elements ..... -->

<!ENTITY % MATHML.xmlns.attrib "">
<!ENTITY % MATHML.Common.attrib
  "class    CDATA          #IMPLIED
  style     CDATA          #IMPLIED
  id        ID             #IMPLIED
  xref      IDREF          #IMPLIED
  other     CDATA          #IMPLIED"
>

<!--
  import MathML2 dtd
-->
<!ENTITY % mathml2 PUBLIC "-//W3C//DTD MathML 2.0//EN" "imported\mathml2.dtd">
%mathml2;

```



```
<!--
  DTD OASIS Open XML Exchange Table Model.
  Maintained by OASIS; download from:
    http://oasis-open.org/specs/soextblx.dtd
  Note that the FPI in soextblx.dtd refers to itself as 'calstblx'.
  That convention has been followed here.
-->

<!--
  create content for title element in table
-->
<!ENTITY % title "<!ELEMENT title (#PCDATA | b | i | u | o | sup | sub |
smallcaps)* > ">
%title;

<!--
  override OASIS Exchange <entry> model
-->
<!ENTITY % tbl.entry.mdl "(#PCDATA | b | i | u | o | sup | sub | smallcaps |
pre | br | patcit | nplcit | bio-deposit | crossref |
figref | img | dl | ul | ol | chemistry | maths)* ">

<!--
  import OASIS Exchange model
-->
<!ENTITY % calstblx PUBLIC "-//OASIS//DTD XML Exchange Table Model 19990315//EN"
"imported\soextblx.dtd">
<!ENTITY % yesorno "NMTOKEN" >

<!-- EPO Limits the attributes
Does not use:

                                orient    (port | land)  #IMPLIED
                                tabstyle  NMTOKEN        #IMPLIED
-->
<!ENTITY % tbl.table.att " pgwide    %yesorno;    #IMPLIED" >
%calstblx;

<!--
*****
SECTION ENTITIES DECLARATION
This section contains entities used accross the DTD
*****
-->

<!--
address_group
Structure to store an address.
-->
<!ENTITY % address_group
"((address-1?,address-2?,address-3?,address-4?,
address-5?,mailcode?,pobox?,room?,address-
floor?,building?,
street?,city?,county?,state?,postcode?,country)
| text)" >

<!--name_group
Structure to identify a person.
-->
<!ENTITY % name_group
"((name | (prefix?,(last-name | orgname),first-name?,
middle-name?,first-last-name?, second-last-
name?, suffix?,iid?,
role?,orgname?,department?,synonym*)),registered-number?)" >

<!-- wo-specific-data -->
```

```
<!ENTITY % wo_specific_data
    "wo-isa-as-ipea?, iprp-final-date?, demand-submission-date?,
    iprp-sheet-of-annexes?, sis-received-and-considered*">

<!--
DTD Customisation, the following entities can be redefined before calling the
components to customize the DTD. When doing so, care should be take to maintain
the backward compatibility
-->

<!-- country-specific-data
redefine the entity with the country code element for your country before
including this DTD.

e.g.:

<!ENTITY % country_specific_data ",ep-specific-data" >
!!! do not forget to prepend with a comma

and define ep-specific-data in your own DTD.

-->
<!ENTITY % country_specific_data "" >

<!-- p_group
Defines the structure of the p tag
-->
<!ENTITY % p_group "(#PCDATA | b | i | u | o | sup | sub | smallcaps | br | pre |
dl | ul |
                ol | crossref | figref | legalref | patcit | nplcit | bio-deposit |
                img | chemistry | maths | tables | table-external-doc)*">

<!-- additional_info_group
-->
<!ENTITY % additional_info_group "application-document*,(p+|xhtml-text)" >

<!-- written_opinion_request_group
-->
<!ENTITY % written_opinion_request_group "application-documents,priority-opinion?,
non-establishment-of-opinion?,added-subject-matter-objections?,
lack-of-unity-objection?,clarity-objections?,
insufficiency-of-disclosure-objections?,compliance-of-invention*,
formal-defects?,comments-of-applicant?,additional-
info?,conclusion?">

<!-- application_documents_group
-->
<!ENTITY % application_documents_group "translation-of-appl?,
application-documents-description?,application-documents-claims?,
application-documents-drawings?,application-documents-sequence-
list?,
                rectification-of-obvious-mistakes?, (top-up-search-carried-out | no-
top-up-search-carried-out)?, additional-info?">

<!-- claim_defect_group
-->
<!ENTITY % claim_defect_group "((claim-num*, partially-for-claims?) |
sequence-list-defect | table-defect)">

<!-- objection_group
-->
<!ENTITY % objection_group "application-document+,p*,additional-info*">

<!-- objections_group
-->
<!ENTITY % objections_group "objection+ | p+">

<!-- lack_of_unity_objection_group
-->
```

```
<!ENTITY % lack_of_unity_objection_group "( lack-of-unity-additional-fees,
((lack-of-unity-single-general-inventive-
concept?,
        lack-of-unity-invention+) | p+), opinion-established-regarding,
        additional-info*)">

<!-- lack_of_unity_invention_group
-->
<!ENTITY % lack_of_unity_invention_group "claim-num+,identification-of-
invention,p*,
        lack-of-unity-invention-special-tech-feature?">

<!-- opinion_established_regarding_group
-->
<!ENTITY % opinion_established_regarding_group "entire-application | (
        completely-for-claims?, partially-for-claims?, not-for-claims?) |
        selected-invention">

<!-- compliance_group
Defines the structure of the elements determining the compliance of the
application with certain criteria
-->
<!ENTITY % compliance_group "(compliance-valid | compliance-not-valid)+,
additional-info*">

<!-- compliance_valid_group
Remove p, covered by additional-info
-->
<!ENTITY % compliance_valid_group "claim-num+">

<!-- citations_group
-->
<!ENTITY % citations_group "citation | conflicting-document | non-written-
disclosure">

<!-- common_id_attribute_group
-->
<!ENTITY % common_id_attribute_group "id ID      #IMPLIED
        idrefs IDREFS  #IMPLIED
        gidrefs CDATA  #IMPLIED">

<!--
*****
END SECTION ENTITIES DECLARATION
*****
-->

<!--written-opinion-admin
Wrapper for information related to the application and written opinion,
as well as specific information for specific procedures/phases.
-->
<!ELEMENT written-opinion-admin (application-info, communication-info,
        office-specific-data?) >

<!--wo-isa-as-ipea
The written opinion of the ISA is considered a WO of the IPEA
-->
<!ELEMENT wo-isa-as-ipea EMPTY >

<!ATTLIST wo-isa-as-ipea
        considered (yes | no) #IMPLIED >

<!--iprp-final-date
The final date by which the international preliminary report on
patentability (Chapter II of the PCT) must be established according to
Rule 69.2.
-->
<!ELEMENT iprp-final-date (date) >

<!--Date of submission of demand, format YYYYMMDD
```

```
-->
<!ELEMENT demand-submission-date (date) >

<!--2. This REPORT consists of a total of _____ sheets, including this
cover sheet.

-->
<!ELEMENT iprp-sheet-of-annexes (iprp-annexes-sheet?,
iprp-annexes-electronic-carrier?) >

<!ATTLIST iprp-sheet-of-annexes
page-count CDATA #IMPLIED >

<!--3. This report is also accompanied by ANNEXES, comprising:
a. a total of _____ sheets, as follows:

-->
<!ELEMENT iprp-annexes-sheet (iprp-beyond-disclosure?,
iprp-rectifications-authorized?,
iprp-rectifications-not-authorized?) >

<!ATTLIST iprp-annexes-sheet
page-count CDATA #IMPLIED >

<!--Sheets of the description, claims and/or drawings which have been amended and
are
the basis of this report and/or sheets containing rectifications authorized by
this Authority
(see Rule 70.16 and Section 607 of the Administrative Instructions)

-->
<!ELEMENT iprp-beyond-disclosure EMPTY >

<!--Sheets which supersede earlier sheets, but which this Authority considers
contain
an amendment that goes beyond the disclosure in the international application as
filed, as indicated in item 4 of Box No. I and the Supplemental Box.

-->
<!ELEMENT iprp-rectifications-authorized EMPTY >

<!--sheets containing rectifications, where the decision was made by this Authority
not to take them into account because
they were not authorized by or notified to this Authority at the time when this
Authority began to draw up this report,
and any accompanying letters (Rules 66.4bis, 70.2(e), 70.16 and 91.2).

-->
<!ELEMENT iprp-rectifications-not-authorized EMPTY >

<!--A total of (indicate type and number of electronic carrier(s))
_____,
containing a sequence listing and/or tables related thereto, in computer readable
form only, as indicated in the Supplemental Box Relating to Sequence Listing
(see Section 802 of the Administrative Instructions).

-->
<!ELEMENT iprp-annexes-electronic-carrier EMPTY >

<!ATTLIST iprp-annexes-electronic-carrier
quantity CDATA #IMPLIED >

<!--sis-received-and-considered
Supplementary international search report was received and considered
in the redaction of the opinion. Office code according to ST.3.

-->
<!ELEMENT sis-received-and-considered (#PCDATA) >

<!--Office is the ST.3 country code, including the regional authorities.
```

```
Office-dtd is the file which contains the DTD for the office-specific elements.
-->
<!ELEMENT office-specific-data
  (%wo_specific_data; %country_specific_data;)
>

<!ATTLIST office-specific-data
  id ID #IMPLIED
  file CDATA #REQUIRED
  lang CDATA #IMPLIED
  office CDATA #REQUIRED
  office-dtd CDATA #REQUIRED
  status CDATA #IMPLIED >

<!--*****
DOC-PAGE
*****
doc-page - DOCument or PAGE

This is primarily to be used when data for the whole or major sections of an
application are in image format OR other formats such as pdf.

Page range attributes are given when required
pp - page range
ppf - first page
ppl - last page (for pdf).
The 'img' may also be used for complete pages, e.g. in drawings

EPO Required usage:
- in the EP publication process this tag is only likely to be used for the
search report; then we use:
- id="srep0001"
- file="srep0001.tif"

- in all other cases use:
- id="docp0001"
- file="docp0001.tif"

** Note: ocr attribute added NOT ANNEX F compatible - for OCR project? CHECK

Example:
<search-report-data id="srep" srep-office="EP" date-produced="20050308">
<doc-page id="srep0001" file="srep0001.tif" he="231" wi="159" type="tif" />
<doc-page id="srep0002" file="srep0002.tif" he="231" wi="159" type="tif"/>
</search-report-data>
-->
<!ELEMENT doc-page EMPTY >

<!ATTLIST doc-page
  id ID #IMPLIED
  file CDATA #REQUIRED
  wi CDATA #REQUIRED
  he CDATA #REQUIRED
  type (jpg | pdf | tif) #REQUIRED
  alt CDATA #IMPLIED
  pp CDATA #IMPLIED
  ppf CDATA #IMPLIED
  ppl CDATA #IMPLIED
  ocr CDATA #IMPLIED
  color (color | bw) #IMPLIED
  orientation (portrait | landscape) "portrait" >

<!--*****
HEADINGS
*****

EPO required usage:
- id="h0001", "h0002", etc.
- level="1" etc MAY be used and are used in PatXML files
```

```

EPO PatXML uses:
- For level 1: left justified, bold, line break
- For level 2: left justified, underlined, line
- For level 3: left justified, line break,
but the rendering tags are included within the <heading>; eg. <b>

- For ALL other headings entered by the contractor just use <heading> using
bold etc as entered by the applicant
BUT left justified,
DO NOT USE level attribute UNLESS it is a PatXML file which can be left "as is".
-->
<!ELEMENT heading (#PCDATA | b | i | u | o | sup | sub | smallcaps)* >

<!ATTLIST heading
      id ID      #IMPLIED
      level (1 | 2 | 3) #IMPLIED >

<!--Bold formatting for text-->
<!ELEMENT b (#PCDATA | i | u | o | smallcaps | sup | sub)* >

<!--Italic formatting for text-->
<!ELEMENT i (#PCDATA | b | u | o | smallcaps | sup | sub)* >

<!--Underscore: style - single is default-->
<!ELEMENT u (#PCDATA | b | i | smallcaps | sup | sub)* >

<!ATTLIST u
      style (single | double | dash | dots) "single" >

<!--Small capitals-->
<!ELEMENT smallcaps (#PCDATA | b | u | i | o)* >

<!--Overscore: style - single is default-->
<!ELEMENT o (#PCDATA | b | i | smallcaps | sup | sub)* >

<!ATTLIST o
      ostyle (single | double | dash | dots | leftarrow | rightarrow |
      leftrightarrow) "single" >

<!--Superscripted text-->
<!ELEMENT sup (#PCDATA | b | u | i | o | sup2 | sub2)* >

<!--Superscripted text-->
<!ELEMENT sup2 (#PCDATA | b | u | i | o)* >

<!--Subscripted text-->
<!ELEMENT sub2 (#PCDATA | b | u | i | o)* >

<!--Subscripted text-->
<!ELEMENT sub (#PCDATA | b | u | i | o | sup2 | sub2)* >

<!--*****
START SECTION FORMATTING TAGS
*****
*****
PARAGRAPH
*****

EPO Required usage:
- In case of standard paragraphs in the description: id="p0001", "p0002", etc.
- In case of abstracts: id="pa01", "pa02", etc. (more than three is rare)
- In case of amended-claims-statement: id="pc0001", "pc0002", etc.
- In case of search reports: id="ps0001", "ps0002", etc.
- num = 0001, 0002, etc.

EPO style: - always left justified
- precede by para. number in bold as so: [0001]
- para. text indented 7mm from [0001]
- see espacenet for examples

```

```
-->
<!ELEMENT p %p_group; >
<!ATTLIST p
    id ID #IMPLIED
    num CDATA #REQUIRED >
<!--br - break, line break within a paragraph, etc
-->
<!ELEMENT br EMPTY >
<!--*****
PRE
*****
- This element is one method to identify content consisting of text objects that
require preservation (pre) of their whitespace in order to preserve internal
logical relationships.
(e.g., sequence listing fragments, computer program listings)
-->
<!ELEMENT pre (#PCDATA) >
<!ATTLIST pre
    id ID #IMPLIED
    xml:space (preserve | default) #IMPLIED
    listing-type (sequence | program-listing | other) #REQUIRED >
<!--*****
LISTS
*****
DEFINITION LISTS
*****
EPO required usage:
- For dl elements in the main part of the document: id="dl0001"
- If parent element is abstract: id="dla01" BUT contractors
should, if possible, not use in abstracts.
(It is not used in PatXML in abstracts)
- tsize: this is optional and not used in PatXML
files (similar to HTML).
- Old SGML files have the value of the length of the first <dt> this can be removed
- For new processing tsize is not required; layout will depend on style sheet
- This follows HTML practice

Example:

Old file:
<DL TSIZE=10>
<DT>Fig. 1<DD>shows a 3D surface plot ..
<DT>Fig. 2a<DD>is a schematic diagram ...
</DL>

New file
<dl id="dl0001">
<dt>fig. 1</dt><dd>shows a 3d surface plot ..</dd>
<dt>fig. 2a</dt><dd>is a schematic diagram ...</dd>
</dl>

-->
<!ELEMENT dl (dt,dd)+ >
<!ATTLIST dl
    id ID #IMPLIED
    tsize CDATA #IMPLIED
    compact (compact) #IMPLIED >
<!--Term to be defined
```

```
Recommended id="dt0001",etc
EPO required usage:
NOT USED IN EPO.
-->
<!ELEMENT dt (#PCDATA | b | i | u | o | sup | sub | smallcaps)* >

<!ATTLIST dt
    id ID #IMPLIED >

<!--Definition description
-->
<!ELEMENT dd (#PCDATA | b | i | u | o | sup | sub | smallcaps | br | pre | patcit
|
    nplcit | bio-deposit | crossref | figref | img | ul | ol | chemistry
|
    maths)* >

<!--PATENT CITATIONS: (ST.32:B561) Patent Citation within abstract, description or
claims.
For patent citations within Search Report see Search Report DTD Notes: Tags
arranged according to WIPO ST.14 order.
This can be free text data without any structure (text).
Example:
<patcit id='pcit0001' dnum='US4793675A' dnum-type='publication number'>
<document-id> <country>US</country> <doc-number>4793675</doc-number> <kind>A</kind>
<name>Handa</name> <date>19881227</date>
</document-id>
</patcit>
Note: It is NOT expected that the applicant will create the tagged data -
it could be generated from a 'pull down' data entry form or generated from
internal SR databases
Attributes (recommended):
id - pcit0001, pcit0002, etc.
num - 0001, 0002, etc. dnum - use full number as one string, eg, "US5401234A";
url - where possible give full web link to patent file - file name eg.
if stored on local systems dnum-type - type of document number
(e.g., application number, publication number)

REMOVED rel-passage NOT USED
-->
<!ELEMENT patcit (text | (document-id , rel-passage*))>

<!ATTLIST patcit
    id ID #IMPLIED
    num CDATA #IMPLIED
    dnum CDATA #IMPLIED
    dnum-type CDATA #IMPLIED
    file CDATA #IMPLIED
    url CDATA #IMPLIED >

<!-- INCLUDED BY INHERITANCE -->
<!--If no structure is possible, enter text (without markup)-->
<!--<!ELEMENT text (#PCDATA) >-->

<!-- INCLUDED BY INHERITANCE -->
<!--Document identification refers to patents (and patent applications) only. See
WIPO ST.14-->
<!--<!ELEMENT document-id (country,doc-number,kind?,name?,date?) >-->

<!-- INCLUDED BY INHERITANCE -->
<!--Country: use ST.3 country code; e.g. DE, FR, GB, NL, etc. Also includes EP,
WROP-->
<!--<!ELEMENT country (#PCDATA) >-->

<!-- INCLUDED BY INHERITANCE -->
<!--The number of the referenced patent (or application) document-->
<!--<!ELEMENT doc-number (#PCDATA) >-->

<!-- INCLUDED BY INHERITANCE -->
```



```

<!--Document kind code; e.g., A1 (INID 13, ST.32:B130)-->
<!--<!ELEMENT kind (#PCDATA) >-->

<!-- INCLUDED BY INHERITANCE -->
<!--Name: If no distinction or detail can be given. Also to be used for: personal
(natural person) and corporate (legal entity) names-->
<!--<!ELEMENT name (#PCDATA) >-->

<!--Relevant passage group within patent; most used in search reports - use text in
abstract, description and claims-->
<!ELEMENT rel-passage (text | (passage+,(category,rel-claims?)*)) >

<!--Passage within the cited patent literature-->
<!ELEMENT passage (#PCDATA) >

<!--Category (ST.32:B563)-->
<!ELEMENT category (#PCDATA) >

<!--Relevant claims
see example above
-->
<!ELEMENT rel-claims (#PCDATA) >

<!--Non-Patent Literature (NPL) CITATION;
Notes: This can be free text data without any structure (#PCDATA) which is
NOT recommended or it can be highly structured data which is marked up according
to ST.14 and ISO 690 layout; This part of the DTD has used many different sources
for element names and DTD structure and reference: AACR2 / MARC ISO 12083 -
$Electronic manuscript prep. and markup. DTD Association of American Publishers
(AAP) Z39.59 DTD European Working Group for SGML (EWS) MAJOUR DTD SuperJournal
Full Article DTD www.superjournal.ac.uk/sj Elsevier DTD Medline DTD (NLM)

Attributes (recommended):
&#x2191;
id - ncit0001, ncit0002, etc

num - 0001, 0002

npltype - The TYPE of citation is office specific (recommended):;
A - Abstract citation of no specific kind
B - Book citation I - Biological abstract citation
C - Chemical abstracts citation E - Database citation
D - Derwent citation
P - Patent cited within NPL group
J - Patent Abstracts of Japan citation (REC 067)
S - Serial / Journal / Periodical citation
W - World Wide Web / Internet search citation

medium - the type of medium e.g., CD (CD-ROM), MT (Magnetic Tape), DISK,
ONLINE

file - file name on local systems eg. XP number in EPO

url - where possible give full web link to document

REMOVED rel-passage NOT USED
-->
<!ELEMENT nplcit ((text | article | book | online | othercit) , rel-passage*)>

<!ATTLIST nplcit
      id ID      #IMPLIED
      num CDATA  #IMPLIED
      lang CDATA #IMPLIED
      file CDATA #IMPLIED
      npl-type CDATA #IMPLIED
      medium CDATA #IMPLIED
      url CDATA  #IMPLIED >

<!--Article citations within a 'host' document After patent citations the most
common citations are articles within serials (periodicals, magazines), books and

```

```
electronic (eg. internet) sources. This is a very complex and varied area to
standardise. The tag set below is drawn from a number of sources as is the order of
the tags (which in any case can be changed depending on the stylesheet used).; The
order of tags is that of WIPO ST.14 / ISO 690 layout. DROP, J.G. Integrated Circuit
Personalization at the Module Level. IBM Tech. Dis. Bull. October 1974, Vol. 17,
No. 5, p. 1344 and 1345. [XPnnnnnnnnnn]. <nplcit id='ncit1' num='0012' type='S'
file='XP1234456'> <article> <author> <name>DROP, J.G.</name> </author>
<atl>Integrated Circuit Personalization at the Module Level</atl> <serial>
<sertitle>IBM Tech. Dis. Bull.</sertitle> <pubdate>19741000</pubdate> <vid>17</vid>
<ino>5</ino> </serial> <location> <pp>1344 and 1345</pp> </location> <refno
id='XP1'>XP1234456</refno> </article> </nplcit> Note: it is NOT expected that the
applicant will create the tagged data - it can be generated from a 'pull down' data
entry form (eg. in Word) or generated from internal SR databases-->
<!ELEMENT article (text | (author*,atl?,subname*,(serial | book),absno?,location?,
class*,keyword*,cpyrt?,artid?,refno*)) >

<!--Author Prime responsibility for the work there is no distinguishing between
personal and corporate authors <author> followed by name or addressbook information
use the ID attribute if, for example, there is a need to distinguish between
multiple authors. Can also include affiliation details Recommended id = auth0001,
auth0002, etc.-->
<!ELEMENT author (((name | (prefix?,(last-name | orgname),first-name?,middle-
name?,
first-last-name?,second-last-name?,suffix?,iid?,role?,orgname?,
department?,synonym*)),registered-number?) | addressbook) >

<!ATTLIST author
id ID #IMPLIED >

<!--Article title-->
<!ELEMENT atl (#PCDATA) >

<!--Subordinate responsibility; e.g., editor, translator, etc.-->
<!ELEMENT subname (((name | (prefix?,(last-name | orgname),first-name?,middle-
name?,
first-last-name?,second-last-name?,suffix?,iid?,role?,orgname?,
department?,synonym*)),registered-number?) | addressbook) >

<!ATTLIST subname
subname-type (editor | translator | other-subname-type) "editor"
>

<!--Serial citation data: This describes the volume or issue as a whole and not a
particular article within it.-->
<!ELEMENT serial (sertitle,alttitle?,subname*,issue?,imprint?,pubdate?,descrip?,
notes?,pubid?,vid?,ino?,doi?,issn?,isbn?,cpyrt?) >

<!--Serial title-->
<!ELEMENT sertitle (#PCDATA) >

<!--Alternate title for serial; e.g. BMJ = British Medical Journal-->
<!ELEMENT alttitle (#PCDATA) >

<!--Issue designation; e.g., Annual, 1971-, 1890-1972-->
<!ELEMENT issue (#PCDATA) >

<!--Imprint: Publication / creation data Place of publication : publisher, date(s)
of publication usually only date of publication is used for journal citations-->
<!ELEMENT imprint (text | (address?,name,pubdate*)) >

<!--Publication date used in npl citations-->
<!ELEMENT pubdate (#PCDATA | sdate | edate | time)* >

<!--Start date used in pubdate-->
<!ELEMENT sdate (#PCDATA) >

<!--End date used in pubdate-->
<!ELEMENT edate (#PCDATA) >

<!--Time; format HHMM-->
```

```

<!ELEMENT time (#PCDATA) >

<!--Physical description - generally NOT used in citations in pats; e.g., v., 27cm-->
<!ELEMENT descrip (#PCDATA) >

<!--Notes about the journal; e.g. Continues Journal of XYZ 1910-1998, published in
French and English, etc.-->
<!ELEMENT notes (#PCDATA) >

<!--Publisher's unique id-->
<!ELEMENT pubid (#PCDATA) >

<!--Volume id/number-->
<!ELEMENT vid (#PCDATA) >

<!--Issue number-->
<!ELEMENT ino (#PCDATA) >

<!------>
<!ELEMENT doi (#PCDATA) >

<!--International Standard Serial Number-->
<!ELEMENT issn (#PCDATA) >

<!--International Standard Book Number-->
<!ELEMENT isbn (#PCDATA) >

<!--Copyright info. Copyright of publisher of serial-->
<!ELEMENT cpyrt (#PCDATA) >

<!--Book citation In the order specified by WIPO ST.14 and ISO 690 and AACR2 rules
for layout WALTON, Herrmann. Microwave quantum theory. London : Sweet and Maxwell,
1973. ISBN 0123456789. Vol.2, p. 138 to 192. <nplcit id='ncit12' num='0013'
type='b'> <book> <author> <name>WALTON, Herrman</name> </author> <book-
title>Microwave quantum theory</book-title> <imprint> <address> <text>London</text>
</address> <name>Sweet and Maxwell</name> <pubdate>19730000</pubdate> </imprint>
<location> <pp>138 to 192</pp> </location> <isbn>0-1234-568-9</isbn> </book>
</nplcit>-->
<!ELEMENT book (text | (author*,(book-title+ | conference),(subtitle?,subname*,
edition?,imprint?,vid?,ino?,descrip?,series?,notes?,absno?,location*,
pubid?,bookno?,class*,keyword*,cpyrt?,doi?,issn?,isbn*,refno*))) >

<!--The title of the cited book-->
<!ELEMENT book-title (#PCDATA) >

<!--CONFERENCE GROUP / CITATION There is no standard way of citing conference
proceedings; date of the conf. may come before or after place, for example. The
tags are specified in a set order where it is not possible or correct then simply
use <text>-->
<!ELEMENT conference (text |
(conftitle,confdate?,confno?,confplace?,confsponsor*)) >

<!--Conference title-->
<!ELEMENT conftitle (#PCDATA) >

<!------>
<!ELEMENT confdate (date | (sdate,edate)) >

<!--Conference number-->
<!ELEMENT confno (#PCDATA) >

<!--Conference place-->
<!ELEMENT confplace (#PCDATA | address)* >

<!--Conference sponsor-->
<!ELEMENT confsponsor (#PCDATA | addressbook)* >

<!--Book subtitle-->

```

```
<!ELEMENT subtitle (#PCDATA) >

<!--Edition statement (ST.32:B516)-->
<!ELEMENT edition (#PCDATA) >

<!--Series statement-->
<!ELEMENT series (text | (mst,msn?,issn?)) >

<!--Monographic series title-->
<!ELEMENT mst (#PCDATA) >

<!--Monographic series number-->
<!ELEMENT msn (#PCDATA) >

<!--Abstract number-->
<!ELEMENT absno (#PCDATA) >

<!--Location within the cited work-->
<!ELEMENT location (text | (serpart?,sersect?,chapter?,pp?,column?,para?,line?)) >

<!--Part within a serial-->
<!ELEMENT serpart (#PCDATA) >

<!--Serial section-->
<!ELEMENT sersect (#PCDATA) >

<!--Chapter; e.g., in a book. Example: Chapter 2-->
<!ELEMENT chapter (#PCDATA) >

<!--Cited document page numbers-->
<!ELEMENT pp (#PCDATA | ppf | ppl)* >

<!--Cited document page , first-->
<!ELEMENT ppf (#PCDATA) >

<!--Cited document page, last-->
<!ELEMENT ppl (#PCDATA) >

<!--Cited document column numbers-->
<!ELEMENT column (#PCDATA | colf | coll)* >

<!--Cited document column, first-->
<!ELEMENT colf (#PCDATA) >

<!--Cited document column, last-->
<!ELEMENT coll (#PCDATA) >

<!--Referenced paragraph within cited work-->
<!ELEMENT para (#PCDATA | paraf | paral)* >

<!--Cited paragraph, first-->
<!ELEMENT paraf (#PCDATA) >

<!--Cited paragraph, last-->
<!ELEMENT paral (#PCDATA) >

<!--Referenced line within cited work-->
<!ELEMENT line (#PCDATA | linef | line1)* >

<!--Cited document line, first-->
<!ELEMENT linef (#PCDATA) >

<!--Cited document line, last-->
<!ELEMENT line1 (#PCDATA) >

<!--Book number-->
<!ELEMENT bookno (#PCDATA) >

<!-- INCLUDED BY INHERITANCE-->
<!--Classification code; e.g., ipc, dewey etc.-->
```

```
<!--<!ELEMENT class (#PCDATA) >-->

<!--Keyword; e.g., from a Thesaurus or class. scheme (ST.32:B550)-->
<!ELEMENT keyword (#PCDATA) >

<!--Reference number (general); for the EPO this is the XP number-->
<!ELEMENT refno (#PCDATA) >

<!ATTLIST refno
      id ID      #IMPLIED >

<!--Article unique ID - assigned by a publisher to an article-->
<!ELEMENT artid (#PCDATA) >

<!--Online citation Revised according to ISO-690-2 - Electronic documents and parts
thereof. Please refer to this standard for definitions and examples. See:
http://www.nlc-bnc.ca/iso/tc46sc9/standard/690-2e.htm#Contents The tagging in fact
is a mixture of article and book tags together with specific electronic source
tags. 'Online' is taken to mean any kind of electronic documentation: databases,
internet, CD-Roms, DVD, email, etc EXAMPLES:; Kirk-Othmer Encyclopedia of Chemical
Technology [online]. 3rd ed. New York : John Wiley, 1984 [cited 3 January 1990].
Available from: DIALOG Information Services, Palo Alto (Calif.). <nplcit id='ncit1'
num='0001' type='E' medium='online'> <online> <online-title>Kirk-Othmer
Encyclopedia of Chemical Technology </online-title> <edition>3rd ed.</edition>
<imprint> <address> <text>New York</text> </address> <name>John Wiley</name>
<pubdate>19840000</pubdate> </imprint> <avail>dialog information services, palo
alto (calif.).</avail> <datecit> <date>19900103</date> </datecit> </online>
</nplcit> * Article on Internet: Clark, Carol. On the Threshold of a Brave New
World. In Blueprint of the Body [online]. CNN.com, 2000. [cited 24 August
2000;10:25 EST]. In-depth specials. Available from:
[http://www.cnn.com/SPECIALS/2000/genome/story/overview/] <nplcit id='ncit1'
num='0002' type='E' medium='online'> <online> <author> <name>Clark, Carol</name>
</author> <online-title>On the Threshold of a Brave New World</online-title>
<imprint> <name>CNN.com, 2000</name> </imprint> <series> <text>In-depth
specials</text> </series>
<avail>http://www.cnn.com/SPECIALS/2000/genome/story/</avail> <datecit>
<date>20000824; 10:25 est</date> </datecit> </online> </nplcit> * Personal
communication (e-mail) Thacker, Jane. MPEG-21 project stream on digital item
identification [online]. Message to: [iso.tc46.sc9@nlc-bnc.ca]. 3 October 2000;
13:33 EST [cited 6 October 2000; 13:10 EST]. Message-ID:
[002f01c02d60$051a64a0$22a2580c@vaio]. Personal communication. <nplcit id='ncit3'
num='0003' type='E' medium='online'> <online> <author> <name>Thacker, Jane</name>
</author> <online-title>MPEG-21 project stream on digital item identification
</online-title> <subname> <name>Message to: <iso.tc46.sc9@nlc-bnc.ca></name>
</subname> <pubdate>3 October 2000; 13:33 EST</pubdate> <notes>Personal
communication</notes> <avail>Message-ID:
<002f01c02d60$051a64a0$22a2580c@vaio></avail> <datecit><date>6 october 2000; 13:10
EST</date></datecit> </online> </nplcit>-->
<!ELEMENT online (text | (author*,online-title*,hosttitle?,subname*,edition?,(
serial |
book)?,imprint?,pubdate?,vid?,ino?,history?,series?,hostno?,
absno?,location?,notes?,avail*,class*,keyword*,cpyrt?,doi?,issn?,
isbn?,datecit?,srchterm*,srchdate?,refno*)) >

<!--The title of the electronic resource-->
<!ELEMENT online-title (#PCDATA) >

<!--Title of the host document/database-->
<!ELEMENT hosttitle (#PCDATA) >

<!--History of the article (not serial)-->
<!ELEMENT history (text | (received | accepted | revised | misc)) >

<!--Date article was received-->
<!ELEMENT received (date) >

<!--Date article was accepted-->
<!ELEMENT accepted (date) >

<!--Date article was revised-->
```

```

<!ELEMENT revised (date) >

<!--Miscellaneous information relating to the history of the article; see ISO
12083-->
<!ELEMENT misc (#PCDATA | date)* >

<!--Numeration within host document-->
<!ELEMENT hostno (#PCDATA) >

<!--Availability and access - REQUIRED use for URL, online database, ftp address,
email, etc.; e.g., Available from Internet: http://www.epoline.org Available from
DIALOG Information Systems, Palo Alto (Calif.)-->
<!ELEMENT avail (#PCDATA) >

<!--Date cited - date on which the citation was cited. May be different from
srchdate below-->
<!ELEMENT datecit (date) >

<!--Search terms-->
<!ELEMENT srchterm (#PCDATA) >

<!--Date of search/retrieval YYYYMMDD-->
<!ELEMENT srchdate (date) >

<!--Other citations - free form-->
<!ELEMENT othercit (#PCDATA | b | i | u | o | sup | sub)* >

<!--Date: components of a date. Format: YYYYMMDD

If no structure is possible, enter text (without markup)

*****
BIO-DEPOSIT
*****.
Biological deposit citation
(INID 83, ST.32:B830)
According to PCT Rule 13bis, EPC Rule 32
This covers all bio data references long and short within
the description and/or claims

Recommended id=biod0001, biod0002, etc.

Used in PatXML files

Corresponding SDOBI tags:
ST.32:B831 - depositary
ST.32:B832 - bio-accno
ST.32:B833 - date
ST.32:B834 - term
ST.32:B835 - dtext
-->
<!ELEMENT bio-deposit (depositary,bio-accno,date?,term?,dtext?) >

<!ATTLIST bio-deposit
      id ID      #IMPLIED
      num CDATA  #REQUIRED
      url CDATA  #IMPLIED
      dnum CDATA #IMPLIED >

<!--Information regarding the facility storing the biological deposit.
(ST.32:B831)
-->
<!ELEMENT depositary (#PCDATA | address)* >

<!--Biological accession number:
The identification assigned to the biological material by the depositary
(ST.32:B832)
-->
<!ELEMENT bio-accno (#PCDATA) >

```

```

<!--Identifies the period of time during which the depository must be able to
furnish
samples of the biological material.
(ST.32:B834)
-->
<!ELEMENT term (#PCDATA) >

<!--Cross reference to any other element with an identifier (id)

In PatXML files can be to a table only.
-->
<!ELEMENT crossref (#PCDATA | b | i | u | o | sup | sub | smallcaps)* >

<!ATTLIST crossref
            idrefs IDREFS #REQUIRED
            gidrefs CDATA #IMPLIED >

<!--*****
REFERENCES:
*****
A reference to a figure. May be in PatXML files.
QUESTION: For discussion with contractor ?**

Example:"...as shown in <figref idref='f0001'>Fig.1</figref>..."

-->
<!ELEMENT figref (#PCDATA | b | i | u | o | sup | sub | smallcaps)* >

<!ATTLIST figref
            idrefs IDREFS #IMPLIED
            gidrefs CDATA #IMPLIED
            num CDATA #IMPLIED >

<!--*****
IMAGE DATA
*****
Image is used for any kind of image: drawings, art work,
figures, complex work units (math, tables, chemistry), etc.

EPO Required usage:
the following attributes must be used in this order:
- id
- file
- wi (in mm) - note wi and he can be in any order (old Datimtex files are he and
wi)
- he (in mm)
- img-content="drawing" (default - may be other - see below)
- img-format="tif" (default - no other)
- orientation="portrait" (default for PATXML files - may be landscape)
- inline may be used
- alt is NOT used

- id and file values:
- For figures within the DRAWINGS section:
id="if0001", etc.
file="imgf0001.tif" (where f = figure)
- For images within the DESCRIPTION and CLAIMS section:
id="ib0001", etc.
file = "imgb0001.tif" (where b = body)
- For images within the BODY of the ABSTRACT section eg a chemical formula
id="ia01", etc.
file = "imga0001.tif" (where a = abstract)
- For the figure to accompany the ABSTRACT section (abstract drawing): Taken from
the drawings section NOT in PatXML files.
id="iaf01", etc.
file = "imgaf001.tif" (where af = abstract figure)

Example:

<img id="if0001" file="imgf0001.tif" wi="155" he="230" img-content="drawing" img-

```

```
format="tif"/>
```

Note: where images occur, possibly, in other sections, eg. search report data use similar logic.

```
-->
```

```
<!ELEMENT img EMPTY >
```

```
<!ATTLIST img
```

```
  id ID      #IMPLIED
  file CDATA  #REQUIRED
  wi CDATA   #REQUIRED
  he CDATA   #REQUIRED
  img-content (drawing | photograph | character | dna | undefined |
  chem | table | math | program-listing | flowchart | graph)
  "drawing"
  img-format (jpg | tif | st33 | st35) #REQUIRED
  orientation (portrait | landscape) "portrait"
  inline (yes | no) "no"
  alt CDATA  #IMPLIED >
```

```
<!--*****
```

```
UNORDERED LISTS:
```

```
*****
```

List-style may be empty for lists with no bullet or other symbol
default list-style is 'bullets'.

EPO required usage:

- for ul element in the description: id="ul0001"
- If parent element is abstract: id="ula01"; BUT contractors should, if possible, not use in abstracts just type in the numbers as text (not used in PatXML)
- list-style: "none" means "none" or other type of symbol; that is if the applicant used some other symbol use this and then in the body of the text enter that symbol
- bullet and dash may be used
- compact

EPO style: indent whole list 6mm from left margin

Example:

```
<ul id="ul0001" list-style="bullet">
```

```
-->
```

```
<!ELEMENT ul (li+) >
```

```
<!ATTLIST ul
```

```
  id ID      #IMPLIED
  list-style (bullet | dash | none) "bullet"
  compact (compact) #IMPLIED >
```

```
<!--LIST ITEM
```

EPO required usage:

- DO NOT USE ID

```
-->
```

```
<!ELEMENT li (#PCDATA | b | i | u | o | sup | sub | smallcaps | br | pre | patcit |
  nplcit | bio-deposit | crossref | figref | img | dl | ul | ol |
  chemistry | maths)* >
```

```
<!ATTLIST li
```

```
  id ID      #IMPLIED
  num CDATA  #IMPLIED >
```

```
<!--*****
```

```
ORDERED LISTS:
```

```
*****
```

EPO required use:


```

- For ol elements in the main part of the document id="ol0001"
- If parent element is abstract:id="ola01";BUT contractors
should, if possible, not use in abstracts just type in the
numbers as text.

EPO PatXML style ONLY for three levels and ONLY in the description:
- level 1 use arabic numbers 1, 2, 3, ...
- level 2 use lower alpha a, b, c, ...
- level 3 use lower roman i, ii, iii, ...

Early PatXML files <ol> is nested as above.

Example (from PatXML version 1.4) :
<ol id="ol0001" ol-style="1.">
<ol id="ol0001" ol-style="a.">
<ol id="ol0001" ol-style="i.">

Contractors: For all other cases (ie non-PatXML) leave the style
empty and insert the actual numbering in the text after <li>:

EPO style: indent whole list 6mm from left margin

Example:
<ol id="ol0001" ol-style="">
<li>1.1 List item 1.1</li>
</ol>

-->
<!ELEMENT ol (li+) >

<!ATTLIST ol
        id ID #IMPLIED
        compact (compact) #IMPLIED
        ol-style CDATA #IMPLIED >

<!--*****
CHEMISTRY
*****
Chemical formulae, ring structures, Markush structures, etc.

** Added 2006-02-08 - <formula-text> as alternative to image for very simple
chemical "formulaes" where it would be useful to indentify them as such.

EPO required usage:
- For now treat as image or text data.
- Depending on industry support we may use, e.g. CML later
- For chemistry elements in the main part of the document:
id="chem0001".
- For chemistry elements in the abstract:id="chema01";
- num = 0001, 0002, etc.
-->
<!ELEMENT chemistry (img | formula-text | (chem,img?)) >

<!ATTLIST chemistry
        id ID #IMPLIED
        num CDATA #REQUIRED >

<!--NEW data element for v.1.1:
formula-text allows the data entry of very simple formulae
without the verbosity of full mark up of maths and when available for chemistry
-->
<!ELEMENT formula-text (#PCDATA | b | i | u | o | sup | sub | smallcaps)* >

<!--This is a pointer to an external DTD for
chemical markup - to be determined.
IDEA: For EPO probably CML; http://www.xml-cml.org/ ?**
-->
<!ELEMENT chem EMPTY >

<!ATTLIST chem

```

```

        id ID      #IMPLIED
        file CDATA  #REQUIRED
        chem-type CDATA  #IMPLIED >

<!--This is image data or coded according to mathml, version 2

** Added 2006-02-08 - <text> as alternative to image for very simple
maths which do not need rendition and the "heavy coding" of
mathml, eg. 2 x 2 = 4

The top-level element "math" contains MathML encoded
mathematics. The "math" element has the browser info
attributes if it is also the browser interface element.

EPO required usage:
- id="math0001"
- If parent element is abstract: id="matha01"
- num="0001", 0002, etc. OR
- use the value given by the applicant, usually in
parenthesis to the (right) side of the formula, eg. (1)
- old SGML files:
<DF NUM="(1)"> becomes <maths id="math0001" num="(1)">
if there is no number:
<maths id="math0001" num="">
-->
<!ELEMENT maths (img | formula-text | (math,img?)) >

<!ATTLIST maths
        id ID      #IMPLIED
        num CDATA  #REQUIRED >

<!--Legal reference
Reference to a law document
-->
<!ELEMENT legalref (#PCDATA | b | i | u | o | sup | sub | smallcaps)* >

<!--*****
TABLES
*****
This is image data or coded according to OASIS Exchange model with modified cell
'entry' and 'title' content.

EPO required usage:
- id="tabl0001" etc.
- If parent element is abstract: id="tabla01";
- num="0001" etc.
- tables may be images or marked up. Mark up should be the default

The parameter entities defined by the CALS table model as published
(as part of the Example DTD) in MIL-HDBK-28001, have been removed
and replaced by the corresponding values, to simplify reading. LS
-->
<!ELEMENT tables (img | table) >

<!ATTLIST tables
        id ID      #IMPLIED
        num CDATA  #REQUIRED >

<!--*****
TABLE EXTERNAL - NOT USED
*****
References a stand-alone table authored with the table-external DTD.
This is unlikely to be used by the EPO
-->
<!ELEMENT table-external-doc (#PCDATA) >

<!ATTLIST table-external-doc
        id ID      #IMPLIED
        file CDATA  #REQUIRED
        lang CDATA  #IMPLIED

```

```
carriers (internal-electronic | external-electronic | paper)
#IMPLIED
external-type (math | chemistry | program-listing | other)
#IMPLIED
status CDATA #IMPLIED >

<!--written-opinion-request
A written opinion is based on a set of documents (description, claims,
drawings, sequence listing material) on file, generally referred to as a
request. Although in PCT there is generally only one request on file, some
offices authorise the applicant to have multiple requests on file, each being
handled separately in a written opinion.

id
Id for the request, suggested values (combine id of written-opinion followed by
the sequence number) e.g. : wo-01-01

num
Identifies the level of the request, e.g.: 0=main request, 1=first
auxiliary request, ...

request-allowable
Indicates if the request meets all the criteria for patentability.

-->
<!ELEMENT written-opinion-request (%written_opinion_request_group;) >

<!ATTLIST written-opinion-request
    id ID #IMPLIED
    num CDATA #REQUIRED
    request-allowable (yes | no) #IMPLIED >

<!--application-documents
Wrapper element to indicate the documents that form part of the request, i.e.
which have considered for the establishment of the opinion.
-->
<!ELEMENT application-documents (%application_documents_group;) >

<!--translation-of-appl
Indicates that a translation of the application is on file.

translation
A translation has been provided or not.

lang
Language into which the application has been translated.

translation-purpose
The reason for which the translation was submitted.
- international-search
Rules 12.3(a) and 23.1(b) PCT, the translation was submitted for
the purpose of international search.
- international-publication
Rule 12.4(a) PCT, the translation was submitted for the purpose
of the international publication
- supplementary-international-search
Rule 45bis.1(c)(i) PCT, the translation was submitted for the
purpose of a supplementary international search
- international-examination
Rules 55.2(a) and/or 55.3(a) PCT, the translation was submitted
for the purpose of international examination (including amendments).
- entry-regional-phase
The translation was submitted when entering a regional phase
-->
<!ELEMENT translation-of-appl EMPTY >

<!ATTLIST translation-of-appl
    translation (yes | no) #REQUIRED
    lang CDATA #IMPLIED
    translation-purpose (international-search |
```

```
international-publication | supplementary-international-search |
international-type-search | international-preliminary-examination |
entry-regional-phase | priority-document | national-search |
national-examination | opposition) #IMPLIED >

<!--application-documents-description
Indicates the documents of the description on which the opinion is based.
-->
<!ELEMENT application-documents-description (application-document+)>

<!--application-document
Part of a document provided as basis.

value
Describes the value of the tag, e.g. whether it refers to pages, claims, ...
- free-text
Take the value as is. Not allowed in PCT.
- page, paragraph
Identifies a part of the description as page or paragraph.
- claim
Identifies a claim.
- sheet, figure
Identifies a part of the drawings either a sheet or a specific figure.

basis, basis-other
Indicates the basis of the provided documents: as filed (default), amended,
cancelled, ignored. after-search-report cover the specific
case of Article 19(1) PCT.
basis-other is intended to provided for extension for national procedures.

basis-format
the support by which the documents were filed.

basis-date, basis-received
The date of drafting and the date of receipt of the document indicating
the changes.

EXAMPLE 1
Pages 1-5 as originally filed:

<application-document value="page" basis="as-filed">1-5</application-document>

EXAMPLE 2
Pages 1-5 as originally filed
Page 6 filed with letter of 12 january 2009 received on 15
january 2009
Pages 7-10 filed electronically on 25 march 2009
Claims 1-10 filed electronically on 25 march 2009
Claims 12-15 cancelled with letter of 12 january 2009 received on 15
january 2009

<application-document value="page" basis="as-filed">1-5</application-document>
<application-document value="page" basis="amended" basis-format="letter"
basis-date="20090112" basis-received="20090115">6</application-document>
<application-document value="page" basis="amended" basis-format="electronic"
basis-received="20090325">7-10</application-document>
<application-document value="claim" basis="amended" basis-format="electronic"
basis-received="20090325">1-10</application-document>
<application-document value="claim" basis="cancelled" basis-format="letter"
basis-date="20090112" basis-received="20090115" >12-15</application-document>

-->
<!ELEMENT application-document (text+ | (range-from,range-to?)+)>

<!ATTLIST application-document
id ID #IMPLIED
basis (as-filed | after-search-report | entry-regional-phase |
amended | cancelled | ignored | application-published |
specification-published | iper | filed-with-demand |
introduced-by-examiner | requested-by-applicant) #IMPLIED
```

```
basis-other CDATA #IMPLIED
basis-format (letter | fax | electronic | interview |
             oral-proceedings | other) #IMPLIED
basis-date CDATA #IMPLIED
basis-received CDATA #IMPLIED
idrefs IDREFS #IMPLIED
gidrefs CDATA #IMPLIED >

<!--range-from
Start of a range of reference to document part.
e.g. page 3 column 2 line 3 - 10
-->
<!ELEMENT range-from (range-position+) >

<!--range-position
Element to define a position in a document
e.g. page 3
-->
<!ELEMENT range-position (#PCDATA) >

<!ATTLIST range-position
          value (page | column | line | paragraph | claim | sheet | figure)
          #REQUIRED >

<!--range-to
Start of a range of reference to document part.
-->
<!ELEMENT range-to (range-position+) >

<!--application-documents-claims
Indicates the documents of the description on which the opinion is based.
-->
<!ELEMENT application-documents-claims (application-document+) >

<!--application-documents-drawings
Indicates the documents of the description on which the opinion is based.
-->
<!ELEMENT application-documents-drawings (application-document+) >

<!--application-documents-sequence-list
Indicates the documents of the description on which the opinion is based.
-->
<!ELEMENT application-documents-sequence-list (material-of-sequence-list,
          material-of-sequence-listing-cancelled?,
          material-of-sequence-listing-ignored?,
          presentation-of-statements?, additional-info?) >

<!--material-of-sequence-list
Basis of any nucleotide and/or amino acid sequence disclosed in the
international application and necessary to the claimed invention.
Typically used in written opinions to provide the basis, e.g. in forms
PCT/ISA/237, PCT/IPEA/408, PCT/IPEA/409.

sequence-listing
Sequence listings were filed (default yes)

table
table(s) were filed.

paper
Submitted in paper.

electronic
Submitted electronically (default yes).

filing
Time of filing/cancellation of sequence listing material
- in-application-as-filed
Contained in the international application as filed. Empty
tag.
```

```
- electronically-with-application
Filed together with the international application in electronic
form. Empty tag
- submitted-for-search-or-exam
Submitted subsequently to this Authority for the purposes of
search and/or examination. Empty tag
- amendment
Received by this Authority as amendment. The tag contains the
date of reception of the sequence listing material.

amendment-received-on
Date of receipt of the amended material.

cancelled
Indicates that the part was cancelled.

ignored
Indicates that the part (amendment) was ignored because it was
considered to go beyond the application as originally filed.
-->
<!ELEMENT material-of-sequence-list (sequence-listing-material-type,
sequence-listing-material-format,sequence-listing-filing-time) >

<!--a. type of material
-->
<!ELEMENT sequence-listing-material-type EMPTY >

<!ATTLIST sequence-listing-material-type
sequence-listing (yes | no) "yes"
table (yes | no) #REQUIRED >

<!--b. format of material
-->
<!ELEMENT sequence-listing-material-format EMPTY >

<!ATTLIST sequence-listing-material-format
paper (yes | no) #REQUIRED
electronic (yes | no) "yes" >

<!--c. time of filing/furnishing
-->
<!ELEMENT sequence-listing-filing-time (#PCDATA) >

<!ATTLIST sequence-listing-filing-time
in-application (yes | no) #REQUIRED
together-with-application (yes | no) #REQUIRED
furnished-for-search (yes | no) #REQUIRED
amendment (yes | no) #IMPLIED >

<!-- material-of-sequence-listing-cancelled
The amendments have resulted in the cancellation of sequence listing material.
-->
<!ELEMENT material-of-sequence-listing-cancelled (#PCDATA) >

<!-- material-of-sequence-listing-ignored
This opinion has been established as if (some of) the amendments to the sequence
listing material below had not been made, since either they are considered to
go beyond the disclosure as filed, or they were not accompanied by a letter
indicating the basis for the amendments in the application as filed.
-->
<!ELEMENT material-of-sequence-listing-ignored (#PCDATA) >

<!--presentation-of-statements
In addition, in the case that more than one version or copy of a sequence
listing and/or table relating thereto has been filed or furnished,
the required statements that the information in the subsequent or
additional copies is identical to that in the application as filed or
```

```
does not go beyond the application as filed, as appropriate, were
submitted.

submitted
Indicates if the statements were submitted
-->
<!ELEMENT presentation-of-statements EMPTY >

<!ATTLIST presentation-of-statements
      submitted (yes | no) #REQUIRED >

<!--rectification-of-obvious-mistakes
Indicates if the authority took into account the correction of obvious
mistakes under Rule 91 PCT.

considered
Yes if the authority took the corrections into account.
-->
<!ELEMENT rectification-of-obvious-mistakes EMPTY >

<!ATTLIST rectification-of-obvious-mistakes
      considered (yes | no) #REQUIRED >

<!--Additional information. (ST.32:B513)
Any observation that does not fit in other elements, typically
comments or suggestions made by an authorized officer or examiner.
Stylesheet:
If no p is provided, generates a standard phrase based on legal-basis,
legal-source and the references to the application documents.
-->
<!ELEMENT additional-info (%additional_info_group;) >

<!ATTLIST additional-info
      id ID #IMPLIED
      idrefs IDREFS #IMPLIED
      gidrefs CDATA #IMPLIED
      legal-basis CDATA #IMPLIED
      legal-source CDATA #IMPLIED >

<!--priority-opinion
This opinion has been established as if no priority has been claimed.

Suggested value for id: wo-01-01-po
-->
<!ELEMENT priority-opinion (earlier-appl?,claim-invalid?,additional-info?) >

<!ATTLIST priority-opinion %common_id_attribute_group; >

<!--(PCT/ISA/237 - Box II) - Priority
Priority 1. The following document has not yet been
furnished:
Attribute value:
copy = copy of the earlier application whose priority
has been claimed (Rules 43bis.1 and 66.7(a)).

translation = translation of the earlier
application whose priority has been claimed (Rules 43bis.1 and 66.7(b)).

Consequently it has not been possible to consider the validity of the priority
claim. This opinion has nevertheless been established on the assumption that the
relevant date is the claimed priority date.-->
<!ELEMENT earlier-appl EMPTY >

<!ATTLIST earlier-appl
      earlier-appl-missing (copy | translation) #IMPLIED >

<!--This opinion has been established as if no priority had been claimed due to the
fact that the priority claim has been found invalid (Rules 43bis.1 and 64.1). Thus
for the purposes of this opinion, the international filing date indicated above is
considered to be the relevant date.-->
```

```

<!ELEMENT claim-invalid EMPTY >

<!--non-establishment-of-opinion
Non-establishment of opinion with regard to novelty, inventive step and
industrial applicability.

entire-application
No opinion could be established with respect to the entire application.

complex-application
Indicates whether the objection results in the application to be treated as a
complex application (Articles 17(2)(a)(ii) and 34(4)(a)(ii) PCT
(Rule 63 EPC-2000).

Suggested value for id: wo-01-01-ne
-->
<!ELEMENT non-establishment-of-opinion (non-establishment-reason*,additional-
info*) >

<!ATTLIST non-establishment-of-opinion %common_id_attribute_group;
    complex-application (yes | no) #IMPLIED
    entire-application (yes | no) #REQUIRED >

<!--non-establishment-reason
No opinion was established with respect to claims, sequence-listing or a
table.

reason
Reason for not establishing an opinion:
- no-opinion-required
The said application or said claims relate to the following
subject matter which does not require an opinion, see statement.
See Article 17(2)(a)(i) or 34(4)(a)(i) PCT (20011003), Article 52(2) EPC 2000.
- unclear
The description, claims or drawings (indicate particular elements
in statement) or said claims are so unclear that no meaningful
opinion could be formed.
See Article 6 PCT (20011003), Article 84 EPC 2000.
- not-supported
The claims, or said claims are so inadequately supported
by the description that no meaningful opinion could be formed.
See Article 5 PCT (20011003), Article 83 EPC 2000.
- no-search-report
No international search report has been established for said
claims.
- added-subject-matter
The amendments go beyond the application as originally filed to
such an extent that no examination is possible
See Article 19(2) or 34(2)(b) PCT (20011003), Article 123(2) EPC 2000.
- novelty-overflow
The claims are so broad that the search generated such a number of prior
documents that no meaningful opinion can be established.

All reasons should be accompanied by a statement except for
no-search-report.

Suggested value for id: wo-01-01-ne-01, wo-01-01-ne-02, ...
-->
<!ELEMENT non-establishment-reason (%claim_defect_group;p*) >

<!ATTLIST non-establishment-reason %common_id_attribute_group;
    reason (no-opinion-required | unclear | not-supported |
    no-search-report | added-subject-matter | novelty-overflow |
    sequence-listing ) #REQUIRED >

<!--*****
END SECTION WRITTEN-OPINION DTD
This section contains the tags specific to the written opinion.
*****

```



```
*****
SECTION GENERIC TAGS
This section contains generic tags out of their context, typically ICE
*****

Claim numbers
-->
<!ELEMENT claim-num (#PCDATA) >

<!--partially-for-claims
Opinion established to limited aspects of the provided claims, see additional
info for details.

Typically used in case of Markush type claims, novelty overflow, ...
-->
<!ELEMENT partially-for-claims (claim-num+) >

<!--sequence-list-defect
No opinion was established without the sequence listing.

reason
Reason for not establishing an opinion:
- no-paper-submitted
The applicant did not submit within the prescribed time limit
a sequence listing on paper complying with the standard provided for
in Annex C of the Administrative Instructions, and such listing was
not available to the Authority in a form and manner acceptable to it.
- no-electronic-submitted
The applicant did not submit within the prescribed time limit
a sequence listing in electronic form complying with the standard
provided for in Annex C of the Administrative Instructions, and such
listing was not available to the Authority in a form and manner
acceptable to it.
- no-fee-paid
The applicant did not within the prescribed time limit pay the
required late furnishing fee for the furnishing of a sequence
listing in response to an invitation under Rules 13ter.1(a) or (b)
and 13ter.2 PCT.

No additional statement required.
-->
<!ELEMENT sequence-list-defect EMPTY >

<!ATTLIST sequence-list-defect
      reason (no-paper-submitted | no-electronic-submitted | no-fee-paid)
      #REQUIRED >

<!--table-defect
No opinion was established because the tables related to the sequence
listings.

reason
Reason for not establishing an opinion:
- not-electronically-submitted
A meaningful opinion could not be formed without the tables
related to the sequence listings; the applicant did not, within the
prescribed time limit, furnish such tables in electronic form
complying with the technical requirements provided for in
Annex C-bis of the Administrative Instructions, and such tables
were not available to the Authority in a form and manner acceptable
to it.
- not-format-compliant
The tables related to the nucleotide and/or amino acid sequence
listing, if in electronic form only, do not comply with the
technical requirements provided for in Annex C-bis of the
Administrative Instructions.

No additional statement required.
-->
<!ELEMENT table-defect EMPTY >
```

```
<!ATTLIST table-defect
    reason (not-electronically-submitted | not-format-compliant)
    #REQUIRED >

<!--added-subject-matter-objections
The amendments shall not go beyond the disclosure in the international
application as filed ( Art 19(2), 28(2), 34(2)(b) and 41(2) PCT - Oct 3, 2001 )
and further information.
The amendment not fullfilling the requirement will be identified and a
statement explaining the reason as to why it goes beyond the application as
originally filed is provided.
When referring to a previous set of objections as a whole, this element only
needs to contain the additional objections not yet covered by the referred set.

suggested value for id: wo-01-01-as
-->
<!ELEMENT added-subject-matter-objections (%objections_group;) >

<!ATTLIST added-subject-matter-objections
    id ID #IMPLIED
    idref IDREFS #IMPLIED
    gidref CDATA #IMPLIED >

<!--objection
Identifies any objection related to specific application documents
When referring to a previous (set of) objection(s), this element only
needs to contain additional information not yet covered by the referred set or
element.
Stylesheet:
If no p is provided, generates a standard phrase based on legal-basis,
legal-source and the references to the application documents.

Suggested values for id:
added subject-matter: wo-01-01-as-01, wo-01-01-as-02, ...
clarity : wo-01-01-co-01, wo-01-01-co-02, ...
insufficiency of disclosure: wo-01-01-id-01, wo-01-01-id-02, ...
formal defects: wo-01-01-fd-01, wo-01-01-fd-02, ...
-->
<!ELEMENT objection (%objection_group;) >

<!ATTLIST objection %common_id_attribute_group;
    legal-basis CDATA #IMPLIED
    legal-source CDATA #IMPLIED >

<!--lack-of-unity-objection
The Authority has determined that the present application does (not)
relate to one invention only or to a group of inventions so linked as to
form a single general inventive concept.
A lack of unity is assessed whenever:
* the special technical features of each of the invention are neither
corresponding nor the same, and/or
* the general concept linking all the inventions is neither novel nor
inventive

unity-of-invention
Indicates if the requirement of unity of invention is satisfied.

complex-application
Indicates whether the objection results in the application to be treated as a
complex application (Articles 17(2)(a)(ii) and 34(4)(a)(ii) PCT
(Rule 63 EPC-2000).

-->

<!ELEMENT lack-of-unity-objection %lack_of_unity_objection_group; >

<!ATTLIST lack-of-unity-objection
    unity-of-invention (yes | no) #REQUIRED
```

```
complex-application (yes | no) #IMPLIED
idref IDREF #IMPLIED
gidref CDATA #IMPLIED >

<!--lack-of-unity-additional-feesIf the Authority finds that the requirement of
unity of invention is not
complied with, it may invite the applicant to pay additional fees.

additional-fees-requested
This Authority found that the requirement of unity of invention is not
complied with and chose (not) to invite the applicant to restrict or
pay additional fees.

response-additional-fees
The response of the applicant to the request to pay additional fees.
* restricted-claims
the applicant restricted the claims.
* paid-additional-fees
the applicant paid the additional fees.
* neither-additional-fees-nor-restricted-claims
the applicant did neither pay the fees nor restricted the claims.

-->
<!ELEMENT lack-of-unity-additional-fees (additional-fees-paid-under-protest?)>

<!ATTLIST lack-of-unity-additional-fees
additional-fees-requested ( yes | no )
#REQUIRED
response-additional-fees (restricted-claims |
additional-fees-paid | additional-fees-not-paid) #IMPLIED>

<!-- additional-fees-paid-under-protest
* paid-additional-fees-under-protest-and-protest-fee
the applicant paid the additional fees under protest. The protest was paid.
* paid-additional-fees-under-protest-and-not-protest-fee
the applicant paid the additional fees under protest. The protest was not
paid.
-->
<!ELEMENT additional-fees-paid-under-protest EMPTY>

<!ATTLIST additional-fees-paid-under-protest
protest-fee-paid (yes | no) #REQUIRED >

<!--lack-of-unity-single-general-inventive-concept
The requirement of unity of invention is fulfilled only when there exists
a single general inventive concept among the claimed separate inventions
(see claim-num) which finds its expression in one or more of the same or
corresponding special technical features. It should be noted, however,
that it is not required that the concept linking the claimed separate
inventions be expressly stated in the wording of the claims.
If no single general concept can be distinguished, or if the single
general concept is clearly known from the state of the art at hand (see
citations), then the application lacks unity of invention.
-->
<!ELEMENT lack-of-unity-single-general-inventive-concept (p+) >

<!--lack-of-unity-invention
Invention or group of inventions so linked as to form a single general inventive
concept. When assessing a posteriori the lack of unity, the lack of novelty of
the first claim should be firts assessed.
The reasoning to identify the special technical feature is only required for
the first mentionned invention.

num
Sequence number of the invention
-->
<!ELEMENT lack-of-unity-invention (%lack_of_unity_invention_group;) >

<!ATTLIST lack-of-unity-invention %common_id_attribute_group;
num CDATA #REQUIRED >
```

```
<!--identification-of-invention
Identification of an invention or group of inventions so linked as
to form a single general inventive concept. This is not to be confused
with the invention title of the description.
-->
<!ELEMENT identification-of-invention (text) >

<!--lack-of-unity-invention-special-tech-features
Where a group of inventions is claimed in one and the same international
application, the requirement of unity of invention referred to in
Rule 13.1 PCT shall be fulfilled only when there is a technical
relationship among those inventions involving one or more of the same or
corresponding special technical features.
The expression special technical features shall mean those technical
features that define a contribution which each of the claimed inventions,
considered as a whole, makes over the prior art.
-->
<!ELEMENT lack-of-unity-invention-special-tech-feature (claim-num+,text,
    lack-of-unity-invention-tech-problem-solved) >

<!--lack-of-unity-invention-tech-problem-solved
Technical problem solved by the selected special technical feature
-->
<!ELEMENT lack-of-unity-invention-tech-problem-solved (text) >

<!--opinion-established-regarding
A written opinion has been established with respect to the provided
elements.
-->
<!ELEMENT opinion-established-regarding (%opinion_established_regarding_group;) >

<!--entire-application
When making references to parts of the application, this refers to
the application as a whole.
-->
<!ELEMENT entire-application EMPTY >

<!--completely-for-claims
Opinion established to all aspects of the provided claims, see additional
info for details.
-->
<!ELEMENT completely-for-claims (claim-num+) >

<!--not-for-claims
Opinion not established for the provided claims, see additional
info for details.

Typically used in case of Markush type claims, novelty overflow, ...
-->
<!ELEMENT not-for-claims (claim-num+) >

<!--selected-invention
In the context of an objection of lack of unity this refers to one of
the named inventions.
-->
<!ELEMENT selected-invention EMPTY >

<!ATTLIST selected-invention
    idref IDREF #REQUIRED
    gidref CDATA #IMPLIED >

<!--clarity-objections
Container for all clarity objections and further additional-infos.

Suggested value for id: wo-01-01-co
-->
<!ELEMENT clarity-objections (%objections_group;) >

<!ATTLIST clarity-objections %common_id_attribute_group;>
```

```
<!--insufficiency-of-disclosure-objections
The description shall disclose the invention in a manner sufficiently clear
and complete for the invention to be carried out by a person skilled in the
art.

Suggested value for id: wo-01-01-id
-->
<!ELEMENT insufficiency-of-disclosure-objections (%objections_group;) >

<!ATTLIST insufficiency-of-disclosure-objections %common_id_attribute_group; >

<!--compliance-of-invention
The Authority establishes a non-binding opinion on the questions whether
the claimed invention appears to be novel, to involve an inventive step
(to be non-obvious), and to be industrially applicable,
Article 33(1)-(4) PCT.

Recommended values for id: wo-01-01-pr
-->
<!ELEMENT compliance-of-invention (novelty-compliance?,inventive-step-compliance?,
industrial-applicability-compliance?,additional-info*) >

<!ATTLIST compliance-of-invention %common_id_attribute_group; >

<!--novelty-compliance
A claimed invention shall be considered novel if it is not anticipated
by the prior art, Art 33(2) PCT.

Recommended values for id: wo-01-01-pr-n
-->
<!ELEMENT novelty-compliance (%compliance_group;) >

<!ATTLIST novelty-compliance %common_id_attribute_group; >

<!--compliance-valid
Said claims comply with the criteria to which this element
refers to (novelty, inventive step or industrial applicability) for the
reasons provided.

Recommended values for:
novelty: wo-01-01-pr-n-01, wo-01-01-pr-n-02, ...
inventive step: wo-01-01-pr-is-01, wo-01-01-pr-is-02, ...
industrial applicability: wo-01-01-pr-ia-01, wo-01-01-pr-ia-02, ...
-->
<!ELEMENT compliance-valid (%compliance_valid_group;) >

<!ATTLIST compliance-valid %common_id_attribute_group; >

<!--compliance-not-valid
Said claims do not comply with the criteria to which this element
refers to (novelty, inventive step or industrial applicability) for the
reasons provided.

Recommended values for:
novelty: wo-01-01-pr-n-01, wo-01-01-pr-n-02, ...
inventive step: wo-01-01-pr-is-01, wo-01-01-pr-is-02, ...
industrial applicability: wo-01-01-pr-ia-01, wo-01-01-pr-ia-02, ...
-->
<!ELEMENT compliance-not-valid (%compliance_valid_group;) >

<!ATTLIST compliance-not-valid %common_id_attribute_group; >

<!--inventive-step-compliance
A claimed invention shall be considered to involve an inventive step if,
having regard to the prior art, it is not, at the prescribed relevant
date, obvious to a person skilled in the art, Article 33(3) PCT.

Recommended values: wo-01-01-pr-is
-->
```

```
<!ELEMENT inventive-step-compliance (%compliance_group;) >

<!ATTLIST inventive-step-compliance %common_id_attribute_group; >

<!--industrial-applicability-compliance
A claimed invention shall be considered industrially applicable if,
according to its nature, it can be made or used (in the technological
sense) in any kind of industry.
Industry shall be understood in its broadest sense, as in the Paris
Convention for the Protection of Industrial Property, Article 33(4) PCT.

Recommended values: wo-01-01-pr-ia
-->
<!ELEMENT industrial-applicability-compliance (%compliance_group;) >

<!ATTLIST industrial-applicability-compliance %common_id_attribute_group; >

<!--formal-defects
Container for all objections related to formal aspects and further
additional-infos.

Recommended values: wo-01-01-fd
-->
<!ELEMENT formal-defects (%objections_group;) >

<!ATTLIST formal-defects %common_id_attribute_group; >

<!--comments-of-applicant
Container for all observations from the examiner to address arguments of the
applicant that were not cover by any of the preceeding points.

Recommended values: wo-01-01-ca
-->
<!ELEMENT comments-of-applicant (additional-info+) >

<!ATTLIST comments-of-applicant %common_id_attribute_group; >

<!--conclusion
Set of statements of additional information concluding either a request or the
written opinion.
Stylesheet:
If no p is provided, generates a standard phrase based on legal-basis,
legal-source and the references to the application documents.

id
Suggested values:
for a request: wo-01-01-c
for the opinon: wo-01-c
-->
<!ELEMENT conclusion (p*,additional-info*) >

<!ATTLIST conclusion %common_id_attribute_group;
          legal-basis CDATA #IMPLIED
          legal-source CDATA #IMPLIED >

<!--citations
The statement shall be accompanied by the citation of the documents
believed to support the stated conclusion with such explanations as the
circumstances of the case may require (Article 35(2) PCT).
-->
<!ELEMENT citations (%citations_group;)+ >

<!--*****
CITATIONS
*****
Grouping tag for patent literature (patcit)
or non-patent literature (nplcit) plus data related to those citations.

Recommended id='cit0001', 'cit0002', etc.
For the SR: id='sr-cit0001', 'sr-cit0002'
```

```

For the WO: id='wo-cit0001"

@reference
Identification given by the party to the document, e.g. A1.

@exam-reference
Identification given by the search or examining division to the document,
e.g. D1.

@has-equivalent :
The expected usage of this attribute is that it will only be present in the
circumstances where the examiner explicitly
chooses to express the fact that the cited document has no equivalent document /
patent family members in the
rendered search report citation; in other words the attribute when present and
having the value "no" will result in the text
"No patent family" or "No equivalent documents" in the relevant language being
displayed on the search report.

-->
<!ELEMENT citation ((patcit | nplcit),(rel-passage*,category*,rel-claims*)*,
corresponding-docs*, classification-ipc?, classifications-ipcr?,
classification-national?, doi?) >

<!ATTLIST citation
id ID #IMPLIED
cited-phase (application | search | international-search-report |
supplementary-international-search-report |
international-type-search-report | national-search-report |
supplementary-national-search-report | examination |
international-examination | national-examination | opposition |
limitation) #IMPLIED
cited-by (applicant | examiner | opponent | third-party) #IMPLIED
reference CDATA #IMPLIED
exam-reference CDATA #IMPLIED
has-equivalent (yes | no) #IMPLIED >

<!--Patent family and corresponding-docs - see example above
These are also "&" cases.
** PB 2006-03-02
-->
<!ELEMENT corresponding-docs ((patcit | nplcit),(rel-passage*,category*,rel-
claims*)*) >

<!--conflicting-document
Any published application or any patent whose publication date is the
same as, or later than, but whose filing date, or, where applicable,
claimed priority date, is earlier than the international filing date of
the international application searched, and which would constitute
relevant prior art for the purposes of Article 15(2) had it been published
prior to the international filing date, shall be specially mentioned in
the international search report.
Such published application or patent shall not be considered part
of the prior art for the purposes of Article 33(2) and (3). Nevertheless,
the international preliminary examination report shall call attention to
such application or patent in the manner provided for in Rule 70.10.<br/>
Rules 33.1(c) and 64(3) PCT

Recommended id='cit0001', 'cit0002', etc.
For the SR: id='sr-cit0001', 'sr-cit0002'
For the WO: id='wo-cit0001"

reference
Identification given by the party to the document, e.g. A1.

exam-reference
Identification given by the search or examining division to the document,
e.g. D1.
-->
<!ELEMENT conflicting-document ((application-reference,publication-

```

```
reference,priority-date?) | text) >

<!ATTLIST conflicting-document
    id ID #IMPLIED
    reference CDATA #IMPLIED
    exam-reference CDATA #IMPLIED >

<!--
    Publication reference information: publication number, date, etc
    (INID 11, ST.32:B110)
-->
<!ELEMENT publication-reference (document-id)>

<!ATTLIST publication-reference id ID #IMPLIED >

<!--Rule 70.10: Any published application ... shall be accompanied by ... its
claimed priority date (if any). In respect of the priority date of any such
document, the report may indicate that, in the opinion of the International
Preliminary Examining Authority, such date has not been validly claimed.-->
<!ELEMENT priority-date (#PCDATA) >

<!ATTLIST priority-date
    priority-valid (yes | no) "yes" >

<!--non-written-disclosure
In cases where the making available to the public occurred by means of an
oral disclosure, use, exhibition or other non-written means ( non-written
disclosure ) before the relevant date as defined in Rule 64.1(b) and the
date of such non-written disclosure is indicated in a written disclosure
which has been made available to the public on a date which is the same
as, or later than, the relevant date, the non-written disclosure shall
not be considered part of the prior art for the purposes of Article 33(2)
and (3). Nevertheless, the international preliminary examination report
shall call attention to such non-written disclosure in the manner
provided for in Rule 70.9.
See also Rules 33.1(b) and 64(2) PCT

Recommended id='cit0001', 'cit0002', etc.
For the SR: id='sr-cit0001', 'sr-cit0002'
For the WO: id='wo-cit0001"

reference
Identification given by the party to the document, e.g. A1.

exam-reference
Identification given by the search or examining division to the document,
e.g. D1.
-->
<!ELEMENT non-written-disclosure ((kind-of-disclosure,date,
    date-of-written-disclosure) | text) >

<!ATTLIST non-written-disclosure
    id ID #IMPLIED
    reference CDATA #IMPLIED
    exam-reference CDATA #IMPLIED >

<!--Kind of non-written disclosure-->
<!ELEMENT kind-of-disclosure (#PCDATA) >

<!--Date of written disclosure Referring to non-written disclosure
(day/month/year)-->
<!ELEMENT date-of-written-disclosure (date) >

<!--annexed-documents
Documents annexed to an xml files either as facsimile or electronic files-->
<!ELEMENT annexed-documents (doc-page | electronic-file)+ >

<!--electronic-file
```



```
-->
<!ELEMENT electronic-file EMPTY >

<!ATTLIST electronic-file
    title CDATA #IMPLIED
    file CDATA #IMPLIED
    file-type (tif | pdf | xml | other) #IMPLIED
    file-type-other CDATA #IMPLIED
    lang CDATA #IMPLIED
    status CDATA #IMPLIED >

<!-- Exceptional handling for WIPO - EPO data exchange
If the opinion cannot be converted to ST.36, the original XHTML code will be
stored in this tag as CDATA-->
<!ELEMENT xhtml-text (#PCDATA)>

<!-- top-up-search-carried-out
[PCT/IPEA/409]
Box I : 6. With regard to top-up searches (Rules 66.1ter and 70.2(f)):
    [] A top-up search was carried out by this Authority on _____
    [] Additional relevant documents have been discovered during the top-up
search.

-->
<!ELEMENT top-up-search-carried-out EMPTY>

<!ATTLIST top-up-search-carried-out
    date CDATA #REQUIRED
    document-found (yes | no) #REQUIRED>

<!-- no-top-up-search-carried-out
[PCT/IPEA/409]
Box I : 6. With regard to top-up searches (Rules 66.1ter and 70.2(f)):
    [] No top-up search was carried out by this Authority because it would serve no
useful purpose

-->
<!ELEMENT no-top-up-search-carried-out EMPTY>

<!--
*****
END OF FILE
*****
-->
```

[Fin du document]