



WORLD INTELLECTUAL PROPERTY ORGANIZATION
ORGANISATION MONDIALE DE LA PROPRIÉTÉ INTELLECTUELLE
GENEVA/GENÈVE

ADMINISTRATIVE INSTRUCTIONS UNDER THE
PATENT COOPERATION TREATY (PCT)
STANDARD FOR THE ELECTRONIC FILING AND PROCESSING
OF INTERNATIONAL APPLICATIONS

INSTRUCTIONS ADMINISTRATIVES DU
TRAITÉ DE COOPÉRATION EN MATIÈRE DE BREVETS (PCT)
NORME CONCERNANT LE DÉPÔT ET LE TRAITEMENT ÉLECTRONIQUES
DES DEMANDES INTERNATIONALES

PROPOSAL FOR CHANGE FILE
DOSSIER RELATIF À LA PROPOSITION DE MODIFICATION

SUBJECT: New XML DTDs for the E-PCT Standard (Annex F, Appendix I)		PROPOSED BY: IB	
SUJET : Nouvelles DTD selon le XML pour la norme E-PCT (appendice I de l'annexe F)		PROPOSÉE PAR :	
HANDLING: Expedited consideration		PROPOSED DATE OF ENTRY INTO FORCE:	
TRAITEMENT : Examen accéléré		DATE PROPOSÉE D'ENTRÉE EN VIGUEUR : 03.03	
ANNEX/ ANNEXE	CONTENT/CONTENU	ORIGIN/ ORIGINE	DATE
1	Proposal/Proposition	IB	25.11.02
2	Circular C. PCT 885/Circulaire C. PCT 885	IB	25.11.02
3	Comments/Commentaires	EP, JP, US	06.12.02
4	Comments/Commentaires	IB	03.02.03

[Annex 1 follows/
L'annexe 1 suit]

NEXT ACTION:	Promulgation	BY:	March 2003
PROCHAINE ACTION :	Promulgation	POUR LE :	Mars 2003

PROPOSAL BY THE INTERNATIONAL BUREAU OF THE
WORLD INTELLECTUAL PROPERTY ORGANIZATION

XML DTDs FOR THE E-PCT STANDARD

Description:

This proposal would add a new section to Annex F, Appendix I, namely section 5, DTDs FOR THE PCT PROCEDURE (E-PCT).

TABLE OF CONTENTS

5	DTDs for the PCT PROCEDURE (E-PCT)	2
5.1	Demand form	2
5.2	Receiving information on the demand by IPEA.....	15
5.3	Chapter II fee sheet.....	22
5.4	Priority document bibliographic data under PCT	30
5.5	Priority document body	35
5.6	IB bibliographic data	37
5.7	Publication	52
5.8	International Preliminary Examination Report.....	74
5.9	Search Report	98
5.10	Ex-officio correction.....	123

5 DTDS FOR THE PCT PROCEDURE (E-PCT)

5.1 Demand form

```
<?xml version='1.0' encoding='UTF-8' ?>
<!--
*****
* demand v0.6 2002 OCTOBER *
*****
* PUBLIC "-//WIPO//DTD DEMAND 0.6//EN" "demand.dtd" *
*****
* http://pcteasy.wipo.int/efiling_standards/schemaDocs/demand.dtd *
*****
* contacts: *
* WIPO: Shiro Ankyu; shiro.ankyu@wipo.int *
* WIPO: John Dunning; john.dunning@wipo.int *
*****
* revision history *
*****
Revised, 2002-10-30 JD
..changes from WIPO XML Canon Annex F components:
...changed US-RIGHTS from '?' to '*' in APPLICANT
...changed element SEQUENCE-NUM to SEQUENCE-NUMBER
...added attribute 'page-count' to CL-SEQUENCE-LISTING
...added attribute 'isa' to DEMAND
...added attribute 'ro' to DEMAND
...added attribute 'orientation' to DOC-PAGE
...added attribute 'examin-lang' to LANGUAGE-FOR-EXAMINATION
Revised, 2001-10-15 JD
..added changes from Trilateral Sept. meeting
..element FLOOR renamed to ADDRESS-FLOOR
..attribute 'type' for AGENT renamed 'rep-type'
..attribute 'type' for APPLICANT renamed 'app-type'
..attribute 'type' for APPLICATION-REFERENCE renamed 'appl-type'
..element CL-COPY-SEPERATE-POWER-OF-ATTORNEY renamed to
....CL-COPY-GENERAL-POWER-OF-ATTORNEY
..element CL-GENERAL-SEPARATE-POWER-OF-ATTORNEY renamed to
...CL-GENERAL-POWER-OF-ATTORNEY
..attribute 'type' for NAME renamed to 'name-type'
..added element DESIGNATED-STATES-AS-INVENTOR to APPLICANT
..removed attribute 'doc-names' on CL-OTHER-DOCUMENT; changed
...content to #PCDATA
..added ADDRESS to SIGNATORY
..removed attribute 'label' from DOC-PAGE
..removed attribute 'label' from IMG
..set version to 0.5
Revised, 2001-08-17 JD
..added changes produced by Trilateral/WIPO XML WG July 2001 meeting
..set version to v0.4
Created 2001-05-03, SA, Geneva

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: n = 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 , election-of-states , demand-check-list?
```

```

, signatories?) | 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, eg. in drawings

  Recommended id = docp01, docp02, etc.

  -->
<!--
  doc-page EMPTY>
<!--
  doc-page id ID #IMPLIED
  he NMTOKEN #REQUIRED
  wi NMTOKEN #REQUIRED
  type (jpg | pdf | tif ) #REQUIRED
  alt CDATA #IMPLIED
  pp CDATA #IMPLIED
  ppf CDATA #IMPLIED
  ppl CDATA #IMPLIED
  file CDATA #REQUIRED
  color (color | bw ) #IMPLIED
  orientation (portrait | landscape ) 'portrait' >
<!--
  a signature represented by electronic means

  -->
<!--
  electronic-signature (basic-signature | enhanced-signature)>
<!--
  electronic-signature date CDATA #REQUIRED
  place-signed CDATA #IMPLIED >
<!--
  a TIFF image of a signature

  -->
<!--
  fax-image EMPTY>
<!--
  fax-image file CDATA #REQUIRED >
<!--
  checklist; a sequence listing is being furnished

  -->
<!--
  cl-sequence-listing EMPTY>
<!--
  cl-sequence-listing quantity CDATA #REQUIRED
  page-count CDATA #IMPLIED >
<!--
  checklist; a priority document is being furnished

  -->
<!--
  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>

<!--
  language for international preliminary examination (Rule 55.1)
-->
<!ELEMENT language-for-examination (#PCDATA)>

<!--
  the drawings are to be used as the basis for
  international preliminary examination
-->
<!ELEMENT the-drawings EMPTY>

<!--
  the claims are to be used as the basis for international preliminary examination.
  Attribute 'basis':
    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>

<!--
  the description is to be used as the basis for
  international preliminary examination
-->
<!ELEMENT the-description EMPTY>

<!--
  the application is to be used as the basis for
  international preliminary examination
-->
<!ELEMENT the-application EMPTY>

<!--
  agent(s) elected specifically for procedures before the
  International Preliminary Examining Authority (Rule 90.1(a)-(c))
-->
<!ELEMENT agents-for-demand (customer-number | agent+)>

<!--
  addition | new | current
-->

```

```
<!--
  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

      -->
<!ELEMENT application-reference (document-id)>

<!ATTLIST application-reference  appl-type CDATA    #REQUIRED >
<!--
  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:
  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 ) #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 | (prefix? , last-name , first-name
                             , middle-name? , suffix? , iid? , role? , orname?
                             , department? , synonym*)) , registered-number?)
                        , address , phone* , fax* , email* , url* , ead*
                        , dtext?) | text)>

<!ATTLIST addressbook  lang 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: 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 | sup | sub)*>

<!ATTLIST invention-title  id  ID      #IMPLIED
                           lang CDATA  #IMPLIED >
<!--
  underscore: style - single is default
-->
<!ELEMENT u (#PCDATA | b | i | smallcaps)*>

<!ATTLIST u  style  (single | double | dash | dots )  'single' >
<!--
  signatories
-->
<!ELEMENT signatories (signatory+)>

<!--
  PCT/R0/101 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 | (prefix? , last-name , first-name , middle-name?
                             , suffix? , iid? , role? , orname? , department?
                             , synonym*)) , registered-number?) , address?
                    , electronic-signature , signatory-capacity?)>

<!--
  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.IX Check List  
-->  
  
<!ELEMENT demand-check-list (cl-translation-of-application-demand?  
                                , cl-amendments-art34? , cl-copy-amendments-art19?  
                                , cl-copy-statement-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-other-document*)>  
  
<!--  
  checklist; an additional document is being furnished  
-->  
<!ELEMENT cl-other-document (#PCDATA)>  
  
<!ATTLIST cl-other-document page-count CDATA #IMPLIED >  
<!--  
  sequential identification of priority documents.  PCT/R0/101 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/IPEA/401 Box No. V
Only States which are bound by Chapter II of the PCT and which
have been designated in the international application (that is,
States whose designations have been made under Rule 4.9(a), confirmed
under Rule 4.9(c) or considered as having been made under Rule
32.2(a)(i)) can be elected. See Rule 53.7.

-->
<!ELEMENT election-of-states (all-states | not-to-elect)>

<!--
the applicant elects all states for International Preliminary
Examination except the following

-->
<!ELEMENT not-to-elect (country* , (region , country+)*)>

<!--
election of all states for International Preliminary Examination

-->
<!ELEMENT all-states 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-claims? , the-drawings?
                                , reverse-art19-amendment? , postpone?)>

<!--
"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 EMPTY>

<!--
PCT/IPEA/401 Box No. IV, checkbox 2:
"The applicant wishes any amendment to the claims under
Article 19 to be considered as reversed"

-->
<!ELEMENT reverse-art19-amendment EMPTY>

<!--
address used for general correspondence

-->
<!ELEMENT correspondence-address (customer-number | addressbook+)>

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

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

<!--
  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
-->
<!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)>

<!--
  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)>

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

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

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

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

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

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

<!--
  address components:
  Address formats differ from country to country
  If no structure possible use text
-->
<!ELEMENT address ((address-1? , address-2? , address-3? , mailcode? , pobox?
  , room? , address-floor? , building? , street? , city?
  , county? , state? , postcode , country) | text)>

<!--
  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 eg. 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, 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)>  
  
<!--  
    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)>

<!--
  subscripted text
-->
<!ELEMENT sub (#PCDATA | b | u | i)*>

<!--
  superscripted text
-->
<!ELEMENT sup (#PCDATA | b | u | i)*>

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

<!--
  bold formatting for text
-->
<!ELEMENT b (#PCDATA | i | u | smallcaps | br)*>

<!--
  italic formatting for text
-->
<!ELEMENT i (#PCDATA | b | u | smallcaps | br)*>

<!--
  small capitals
-->
<!ELEMENT smallcaps (#PCDATA | b | u | i | br)*>
```

5.2 Receiving information on the demand by IPEA

```
<?xml version='1.0' encoding='UTF-8' ?>
<!--
*****
*   ipea-demand-receiving-info   v0.4   2002 OCTOBER   *
*****
*   PUBLIC "-//WIPO//DTD IPEA DEMAND RECEIVING INFO 0.4//EN"   *
*   "ipea-demand-receiving-info.dtd"   *
*****
*   http://pcteasy.wipo.int/efiling_standards/schemaDocs/   *
*   ipea-demand-receiving-info.dtd   *
*****
*   contacts:   *
*   WIPO: Shiro Ankyu; shiro.ankyu@wipo.int   *
*   WIPO: John Dunning; john.dunning@wipo.int   *
*****
*   revision history   *
*****
Revised 2002-10-30 JD
..changes from WIPO XML Canon Annex F components:
...added attribute 'page-count' to CL-AMENDMENTS-ART34
...removed attribute 'quantity' from CL-OTHER-DOCUMENT
Revised, 2001-10-15 JD
..added changes from September Trilateral XML WG meeting
..added ADDRESS to SIGNATORY
..changed element FLOOR to ADDRESS-FLOOR
..changed attribute 'type' for NAME to 'name-type'
..removed attribute 'doc-names' from CL-OTHER-DOCUMENT, changed
...content to #PCDATA
..set version to 0.3
Revised, 2001-08-17 JD
..added changes produced by Trilateral/WIPO XML WG July 2001 meeting
..set version to v0.2
Created 2001-05-08, Geneva, SA
..set version to v0.1

Attributes for iper

lang :language code of attached document,
      ISO639 language code,e.g, en,de,ja,,
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 , signatories?)>

<!ATTLIST ipea-demand-receiving-info   lang           CDATA   #REQUIRED
                                         dtd-version    CDATA   #IMPLIED
                                         file           CDATA   #IMPLIED
                                         status         CDATA   #IMPLIED
                                         date-produced  CDATA   #IMPLIED
                                         ipea          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 >
<!--
  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; 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 | (prefix? , last-name , first-name , middle-name?
, suffix? , iid? , role? , orname? , department? , synonym*))
, registered-number?) , address? , electronic-signature
, signatory-capacity?)>

<!--
address components:
Address formats differ from country to country
If no structure possible use text

-->
<!ELEMENT address ((address-1? , address-2? , address-3? , mailcode? , pobox?
, room? , address-floor? , building? , street? , city?
, county? , state? , postcode , country) | text)>

<!--
if no structure is possible, enter text (without markup)

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

<!--
postal code or zip code

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

<!--
Region of country eg. 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, third line
-->
<!ELEMENT address-3 (#PCDATA)>

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

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

<!--
    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)>

<!--
  department, division, section, etc. name

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

<!--
  registered number

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

<!--
  synonym

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

<!--
  organisation name or company name

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

<!--
  role, e.g. President, Chairman, etc.

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

<!--
  individual id

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

<!--
  middle name(s) or initial(s)

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

<!--
  last, family, surname

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

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

-->
```

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

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

<!--
  First or given name(s), initial(s)
-->
<!-- ELEMENT first-name (#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?
                                , cl-other-document*)>

<!--
  checklist; an additional document is being furnished
-->
<!-- ELEMENT cl-other-document (#PCDATA)>

<!-- ATTLIST cl-other-document page-count CDATA #IMPLIED >
<!--
  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))>

<!--
  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
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)>

5.3 Chapter II fee sheet

[illegible]

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, eg. in drawings

Recommended id = docp01, docp02, etc.

```

-->
<!ELEMENT doc-page EMPTY>

<!ATTLIST doc-page  id          ID          #IMPLIED
                    he          NMTOKEN    #REQUIRED
                    wi          NMTOKEN    #REQUIRED
                    type        (jpg | pdf | tif ) #REQUIRED
                    alt         CDATA      #IMPLIED
                    pp          CDATA      #IMPLIED
                    ppf         CDATA      #IMPLIED
                    ppl         CDATA      #IMPLIED
                    file        CDATA      #REQUIRED
                    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 >

<!--
  application reference information: application number, country
-->
<!ELEMENT application-reference (document-id)>

<!ATTLIST application-reference  appl-type CDATA  #REQUIRED >

<!--
  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 >

<!--
  authoraization to charge or credit deposit account
-->

```

```
<!ELEMENT deposit-account-ipea (authorization-ipea , ipea , account-no , date
    , ((name | (prefix? , last-name , first-name
    , middle-name? , suffix? , iid? , role? , orname?
    , department? , synonym*)) , registered-number?)
    , signatories?)>

<!--
    deposit account number

-->
<!ELEMENT account-no (#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 | (prefix? , last-name , first-name , middle-name?
    , suffix? , iid? , role? , orname? , department? , synonym*))
    , registered-number?) , address? , electronic-signature
    , signatory-capacity?)>

<!--
    address components:
    Address formats differ from country to country
    If no structure possible use text

-->
<!ELEMENT address ((address-1? , address-2? , address-3? , mailcode? , pobox? ,
    room?
    , address-floor? , building? , street? , city? , county? , state?
    , postcode , country) | text)>

<!--
    if no structure is possible, enter text (without markup)

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

<!--
    postal code or zip code

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

<!--
    Region of country eg. 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, third line
-->
<!-- ELEMENT address-3 (#PCDATA)>
<!--
  Address, second line
-->
<!-- ELEMENT address-2 (#PCDATA)>
<!--
  Address, first line
-->
<!-- ELEMENT address-1 (#PCDATA)>
<!--
  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)>
<!--
  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?)>
<!--
  Authoraization to charge any deficiency or credit any overpayment
-->
<!ELEMENT deficiency-credit EMPTY>
<!--
  authoraization 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)>

<!--
  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
-->
<!ELEMENT further-applicant EMPTY>

<!--
  the name of the applicant
-->
<!ELEMENT applicant-name ((name | (prefix? , last-name , first-name , middle-name?
                                , suffix? , iid? , role? , orgname? , department? ,
synonym*))
                           , registered-number?)>

<!--
  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)>

<!--
  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

-->
<!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 Priority document bibliographic data under PCT

```
<?xml version = "1.0" encoding="UTF-8" ?>
<!--
*****
*   priority-doc v1.0           2002 JANUARY           *
*****
*   PUBLIC "-//WIPO//DTD PRIORITY-DOC 1.0//EN" "priority-doc.dtd" *
*****
*   http://pcteasy.wipo.int/efiling_standards/schemaDocs/priority-doc.dtd*
*****
*   contacts: *
*   EPO:   Paul Brewin; pbrewin@epo.org *
*   JPO:   Mitsuru Sono; sono-mitsuru@jpo.go.jp *
*   USPTO: Bruce B. Cox; bruce.cox@uspto.gov *
*   WIPO:  Shiro Ankyu; shiro.ankyu@wipo.int *
*   WIPO:  John Dunning; john.dunning@wipo.int *
*****

PRIORITY DOCUMENT bibliographic data
This DTD supports bibliographic data for priority document exchange.

Attributes:
  lang           = language of application - use two letter st.3 codes
  dtd-version    = dtd version number
  file           = filename of the whole application
  status         = status of the application;
                  values: n = 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   #IMPLIED
                        dtd-version    CDATA   #IMPLIED
                        file           CDATA   #IMPLIED
                        status         CDATA   #IMPLIED
                        produced-by    (applicant | RO | ISA | IPEA | IB
                                      | DO | EO ) #REQUIRED
                        date-produced  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
-->
<!ELEMENT application-reference (document-id)>

<!ATTLIST application-reference  appl-type CDATA   #REQUIRED >
<!--
```

```
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 >
<!--
  holds certification data of priority document
-->
<!ELEMENT pdoc-certificate-doc EMPTY>

<!ATTLIST pdoc-certificate-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>
<!--
  body of the priority document
-->
<!ELEMENT pdoc-body-doc EMPTY>

<!ATTLIST pdoc-body-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>
<!--
  signatories
-->
<!ELEMENT signatories (signatory+)>

<!--
PCT/R0/101 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 | (prefix? , last-name , first-name
                           , middle-name? , suffix? , iid? , role? , orgname?
                           , department? , synonym*)) , registered-number?)
                     , address? , electronic-signature
                     , signatory-capacity?)>

<!--
  address components:
  Address formats differ from country to country
  If no structure possible use text
-->
<!ELEMENT address ((address-1? , address-2? , address-3? , mailcode?
```

```
        , pobox? , room? , address-floor? , building? , street?  
        , city? , county? , state? , postcode , country) | text)>  
  
<!--  
    if no structure is possible, enter text (without markup)  
-->  
<!--ELEMENT text (#PCDATA)>  
  
<!--  
    postal code or zip code  
-->  
<!--ELEMENT postcode (#PCDATA)>  
  
<!--  
    Region of country eg. 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, third line  
-->  
<!--ELEMENT address-3 (#PCDATA)>  
  
<!--  
    Address, second line  
-->  
<!--ELEMENT address-2 (#PCDATA)>  
  
<!--
```

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

<!--
  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)>

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

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

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

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

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

<!--
  individual id
-->
<!ELEMENT iid (#PCDATA)>

<!--
  middle name(s) or initial(s)
-->
```

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

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

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

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

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

```
<?xml version='1.0' encoding='UTF-8' ?>
<!--
*****
*   pdoc-body v1.0           2002 JANUARY                               *
*****
*   PUBLIC "-//WIPO//DTD PDOC-BODY 1.0//EN" "pdoc-body.dtd"           *
*****
*   http://pcteasy.wipo.int/efiling_standards/schemaDocs/pdoc-body.dtd *
*****
*   contacts:                                                         *
*   WIPO: Shiro Ankyu; shiro.ankyu@wipo.int                           *
*   WIPO: John Dunning; john.dunning@wipo.int                         *
*****

PRIORITY DOCUMENT BODY

    doc-page element supports priority document in tiff image,

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

<!ELEMENT pdoc-body (document-id, (pdoc-doc | doc-page+))>
<!--
    pdoc-body
    lang           CDATA #IMPLIED
    dtd-version    CDATA #IMPLIED
    file           CDATA #IMPLIED
    status         CDATA #IMPLIED
    country        CDATA #IMPLIED
    produced-by    (applicant | RO | ISA | IPEA |
                   IB | DO | EO ) #REQUIRED
    date-produced  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, eg. in drawings

Recommended id = docp01, docp02, etc.
-->
<!ELEMENT doc-page EMPTY>
<!--
    doc-page
    id             ID #IMPLIED
    he             NMTOKEN #REQUIRED
    wi             NMTOKEN #REQUIRED
    type           (jpg | pdf | tif) #REQUIRED
    alt            CDATA #IMPLIED
    pp             CDATA #IMPLIED
    ppf            CDATA #IMPLIED
    ppl            CDATA #IMPLIED
    file           CDATA #REQUIRED
    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?)>
```

```
<!--
  name: if no distinction or detail can be given.
  Also to be used for: personal (natural person) and corporate
  (legal entity) names
-->
<!--
  In case that the priority document is in XML format,
  pdoc-doc element supports it. (Current version dose not support it.)
-->
<!--
  date: components of a date.  Format: YYYYMMDD
-->
<!--
  document kind code; e.g. A1
-->
<!--
  the number of the referenced patent (or application) document
-->
<!--
  Country: use ST.3 country code, e.g. DE, FR, GB, NL, etc.
  Also includes EP, WO
-->
```

5.6 IB bibliographic data

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
*****
*   wo-bibliographic-data v1.03      2002 March                      *
*****
*   PUBLIC "-//WIPO//DTD WO-BIBLIOGRAPHIC-DATA 1.03//EN"           *
*                               "wo-bibliographic-data.dtd" *
*****
*   http://pcteasy.wipo.int/efiling_standards/                      *
*                               schemaDocs/wo-bibliographic-data.dtd*
*****
*   contacts:                                                         *
*   WIPO: Shiro Ankyu; shiro.ankyu@wipo.int                         *
*   WIPO: John Dunning; john.dunning@wipo.int                       *
*****

PCT International Bureau Bibliographic data
                                : wo-bibliographic-data (root element)

Purpose of this DTD
  publication bibliographic data by International Bureau
  Art 20 communication bibliographic by International Bureau
  International applplication status form by International Bureau

bibliographic data (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: n = new application
  date-produced  = YYYYMMDD e.g, 20011230
                  if desired, 12 characters maximum
  office-name    = PCT designated office name, country code ST.3
  produced-by    = creator of this document

-->

<!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?,
  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)
                  #REQUIRED >

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

<!--
WIPO publication information:
-->
```

```

<!ELEMENT wo-publication-info (correction*,
                                wo-bio-material-after-pub?,
                                isr-status*,pct-pub-info*) >

<!--
application reference information: application number, country
-->
<!ELEMENT application-reference (document-id) >

<!ATTLIST application-reference
        appl-type CDATA      #REQUIRED >

<!--
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?) >

<!--
date of receipt of amended content
-->
<!ELEMENT wo-amendment-info (received-at-ib) >

<!--
Changing of bibliographic information
-->
<!ELEMENT wo-bib-change-info (bib-change-request+) >

<!--
International preliminary examination reference information
(chapter2 Demand status information)
-->
<!ELEMENT wo-demand-info (ipea?,received-at-ipea?,elected-office?,later-election?,
                            receipt-after-19month?,considered-not-made?,withdrawn?,
                            iper-status*,completion-date?) >

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

<!--
Title of the Invention: 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 | sup | sub)* >

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

<!--
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)
-->
<!ELEMENT parties (applicants,inventors?,correspondence-address?,agents?) >

<!--
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?)) >

<!--
information regarding priority cliams

```

```
-->
<!ELEMENT wo-priority-info (priority-claim,priority-claim-ib-info?)+ >

<!--
PCT/RO/101 Box No.VII :International Searching Authority
-->

<!ELEMENT search-authority (isa,earlier-search-request?) >

<!--
PCT/RO/101 Box No. VIII: DECLARATIONS (Rules 4.1(c)(iii) and 4.17)
-->
<!ELEMENT declaration-info (declaration1?,declaration2?,declaration3?,
                             declaration4?,declaration5?,combined-declaration?,
                             designated-states-as-dec*) >

<!ELEMENT classification-ipc (edition,main-classification,further-classification*,
                              (additional-info | linked-indexing-code-group |
                               unlinked-indexing-code)*,text?) >

<!--
figure of the drawings which should accompany the abstract
-->
<!ELEMENT figure-to-publish (fig-number+) >

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

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

<!--
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 >

<!--
republication information: document-id = republication number
-->
<!ELEMENT correction (document-id?,type-of-correction?,wo-repub-code,dtext?) >

<!ATTLIST correction
                correction-kind (current | previous) #REQUIRED >

<!--
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?) >

<!--
date of receipt of ISR at International Bureau
-->
<!ELEMENT isr-status (received-at-ib?) >

<!ATTLIST isr-status
                isr-status ( new | corrected | art17.2a ) #REQUIRED >

<!--
```

```
date of receipt of IPER at International Bureau
-->
<!ELEMENT iper-status (received-at-ib?) >

<!ATTLIST iper-status
            iper-status ( new | corrected ) #REQUIRED >

<!--
PCT published pamphlet information
-->
<!ELEMENT pct-pub-info (wo-published-text,pct-art64*) >

<!--
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 of receipt at International Bureau
-->
<!ELEMENT received-at-ib (date) >

<!--
Bibliographic change request data PCT rule 92bis
date of receipt of request of changing under
PCT rule 92bis at International Bureau.
-->
<!ELEMENT bib-change-request (received-at-ib,previous-record) >

<!--
International Preliminary Examination Authority
-->
<!ELEMENT ipea (country) >

<!--
date of receipt at International Preliminary Examination Authority
-->
<!ELEMENT received-at-ipea (date) >

<!--
elected office code in demand
-->
<!ELEMENT elected-office (country*,(region,country+)* ) >

<!--
The election was made before/after the expiration of 19 months
from the priority date
-->
<!ELEMENT later-election (received-at-ib) >

<!ATTLIST later-election
            expiration-19months (before | after) #REQUIRED >

<!--
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 >

<!--
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?) >

<!--
demand withdrawn by a notice from applicant (PCT Article 37; PCT Rule
90bis.4)
-->
<!--ELEMENT withdrawn (date) >

<!--
date of completion of the report(IIS/IPER)
-->
<!--ELEMENT completion-date (date) >

<!--
br - break, line break within a paragraph bold
-->
<!--ELEMENT b (#PCDATA | i | u | smallcaps | br)* >

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

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

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

<!--
superscripted text
-->
<!--ELEMENT sup (#PCDATA | b | u | i)* >

<!--
subscripted text
-->
<!--ELEMENT sub (#PCDATA | b | u | i)* >

<!--
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+) >

<!--
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*) >

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

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

<!--
the Contracting States in which protection is desired (Rules 4.1(a)
(iv) and 4.9(a))
-->
<!--ELEMENT designation-pct (regional*,national?) >
```

```
<!--  
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?) >  
  
<!--  
priority claim (PCT Rule 4.10)  
-->  
<!ELEMENT priority-claim (country,doc-number?,date,office-of-filing?,(  
priority-doc-requested | priority-doc-attached?)) >  
  
<!ATTLIST priority-claim  
sequence CDATA #REQUIRED  
kind (national | regional | international) #IMPLIED >  
  
<!--  
additional priority claim information by IB  
-->  
<!ELEMENT priority-claim-ib-info (received-at-ib?,pct-rule17-1?,withdrawn?,  
considered-not-made?) >  
  
<!--  
International Search Authority; international search to be carried out by  
-->  
<!ELEMENT isa (country) >  
  
<!--  
request to use results of earlier search; reference to that search  
-->  
<!ELEMENT earlier-search-request (document-id+) >  
  
<!--  
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 >  
  
<!--  
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 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 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 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    >

<!--
Combined declaration 1 and 2
-->
<!ELEMENT combined-declaration    EMPTY    >

<!ATTLIST combined-declaration
      quantity    CDATA    #REQUIRED    >

<!--
designated states for each declaration.
-->
<!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    >

<!--
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>

<!--
Edition of IPC.
-->
<!ELEMENT edition    (#PCDATA)    >

<!--
Main classification (class)
-->
<!ELEMENT main-classification    (#PCDATA)    >

<!--
Further/secondary classification (subclass)
-->
<!ELEMENT further-classification    (#PCDATA)    >
```

```
<!--
Linked indexing code
-->

<!ELEMENT linked-indexing-code-group (main-linked-indexing-code,
                                     sub-linked-indexing-code+) >

<!--
Unlinked indexing code
-->
<!ELEMENT unlinked-indexing-code (#PCDATA) >

<!ELEMENT additional-info (#PCDATA) >

<!ELEMENT main-linked-indexing-code (#PCDATA) >

<!ELEMENT sub-linked-indexing-code (#PCDATA) >

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

<!--
PCT/RO/101 Box IX: the number of the figure which should accompany
the abstract
-->
<!ELEMENT fig-number (#PCDATA) >

<!--
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 | (prefix?,last-name,first-name,middle-name?,
                             suffix?,iid?,role?,orgname?,department?,synonym*)),
                             registered-number?),address?,electronic-signature,
                             signatory-capacity?) >

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

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

<!--
document kind code; e.g. A1
-->
<!ELEMENT kind (#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 >

<!--
```

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

<!--
Category of republication: 1 = later reception of the amended claims,
2 = revised version, 3 = later publication of the ISR, 4 = corrected
version
-->
<!ELEMENT type-of-correction (#PCDATA) >

<!--
reason for republication from R1 to R9
-->
<!ELEMENT wo-repub-code (#PCDATA) >

<!--
relevant date
-->
<!ELEMENT relevant-date (date) >

<!--
group element for text to be published
-->
<!ELEMENT wo-published-text (wo-text-letter-code+) >

<!--
PCT Article 64: Reservations
-->
<!ELEMENT pct-art64 (date?,document-id?) >

<!--
previous record in IB before receiving request for changing
-->
<!ELEMENT previous-record (applicant | inventor | deceased-inventor | agent) >

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

<!--
The election or the demand containing the election of the State(s) for which
the Office acts as an elected Office has been considered not to have been made
or submitted in a declaration made by (the International Bureau/the competent
IPEA) on (date)
-->
<!ELEMENT made-by (country*,(region,country+)*) >

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

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

<!--
Applicant information: attributes for applicant sequence : sequence
number of each applicant e.g, sequence="1" type : applicant type
applicant-type="applicant" : the applicant is only applicant
applicant-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 >

<!--
the individual or entity responsible for creating the matter that
protection is sought for
-->
<!ELEMENT inventor (addressbook+,designated-states?) >

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

<!--
deceased inventor name
-->
<!ELEMENT deceased-inventor (((name | (prefix?,last-name,first-name,middle-name?,
    suffix?,iid?,role?,orgname?,department?,synonym*)),registered-
number?) >

<!ATTLIST deceased-inventor
    sequence CDATA #IMPLIED
    lang CDATA #IMPLIED >

<!--
customer number for agents by office
-->
<!ELEMENT customer-number (#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,first-name,middle-
name?,suffix?,
    iid?,role?,orgname?,department?,synonym*)),registered-number?),
    address,phone*,fax*,email*,url*,ead*,dtext?) | text) >

<!ATTLIST addressbook
    lang CDATA #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 >

<!--
regional (as opposed to national) protection being sought
-->
<!ELEMENT regional (region,(country,protection-request*)+,any-other-state?) >

<!--
the States for which protection or exclusion (depending upon context)
is desired
-->
```

```
<!ELEMENT national (country,protection-request*)+ >

<!--
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) >

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

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

<!--
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 >

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

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

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

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

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

<!--
individual id
-->
<!ELEMENT iid (#PCDATA) >

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

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

```
<!--  
department, division, section, etc. name  
-->  
<!ELEMENT department (#PCDATA) >  
  
<!--  
synonym  
-->  
<!ELEMENT synonym (#PCDATA) >  
  
<!--  
registered number  
-->  
<!ELEMENT registered-number (#PCDATA) >  
  
<!--  
address components: Address formats differ from country to country  
If no structure possible use text  
-->  
<!ELEMENT address ((address-1?,address-2?,address-3?,mailcode?,pobox?,room?,  
address-floor?,building?,street?,city?,county?,state?,postcode,  
country) | text) >  
  
<!--  
a signature represented by electronic means  
-->  
<!ELEMENT electronic-signature (basic-signature | enhanced-signature) >  
  
<!ATTLIST electronic-signature  
date CDATA #REQUIRED  
place-signed CDATA #IMPLIED >  
  
<!--  
the capacity in which the person signs  
-->  
<!ELEMENT signatory-capacity (#PCDATA) >  
  
<!--  
text letter code for publication; stylesheet produces different text  
based on text value  
-->  
<!ELEMENT wo-text-letter-code (#PCDATA) >  
  
<!--  
country of nationality  
-->  
<!ELEMENT nationality (country) >  
  
<!--  
country of residence  
-->  
<!ELEMENT residence (country) >  
  
<!--  
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) #REQUIRED >  
  
<!--  
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+)*) >
```

```
<!--  
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+)* ) >  
  
<!--  
telephone number  
-->  
<!ELEMENT phone (#PCDATA) >  
  
<!--  
fax number  
-->  
<!ELEMENT fax (#PCDATA) >  
  
<!--  
email address  
-->  
<!ELEMENT email (#PCDATA) >  
  
<!--  
Universal Resource Locator; e.g. www.wipo.int  
-->  
<!ELEMENT url (#PCDATA) >  
  
<!--  
electronic address use for other than email  
-->  
<!ELEMENT ead (#PCDATA) >  
  
<!--  
protection request for the designated office.  
-->  
<!ELEMENT protection-request (kind-of-protection,document-id?) >  
  
<!ELEMENT any-other-state EMPTY >  
  
<!--  
Address, first line  
-->  
<!ELEMENT address-1 (#PCDATA) >  
  
<!--  
Address, second line  
-->  
<!ELEMENT address-2 (#PCDATA) >  
  
<!--  
Address, third line  
-->  
<!ELEMENT address-3 (#PCDATA) >  
  
<!--  
organizational mail code  
-->  
<!ELEMENT mailcode (#PCDATA) >  
  
<!--  
Post Office Box number  
-->  
<!ELEMENT pobox (#PCDATA) >
```

```
<!--  
address room; e.g., Room 55B  
-->  
<!ELEMENT room (#PCDATA) >  
  
<!--  
address floor, e.g., 10th  
-->  
<!ELEMENT address-floor (#PCDATA) >  
  
<!--  
building information in address, e.g., Hoffman building  
-->  
<!ELEMENT building (#PCDATA) >  
  
<!--  
street may contain house number or name  
-->  
<!ELEMENT street (#PCDATA) >  
  
<!--  
City or town name  
-->  
<!ELEMENT city (#PCDATA) >  
  
<!--  
County, parish, department, etc (mainly UK, USA)  
-->  
<!ELEMENT county (#PCDATA) >  
  
<!--  
Region of country eg. state, province, etc.  
-->  
<!ELEMENT state (#PCDATA) >  
  
<!--  
postal code or zip code  
-->  
<!ELEMENT postcode (#PCDATA) >  
  
<!--  
a non-PKI electronic signature  
-->  
<!ELEMENT basic-signature (fax-image | text-string | click-wrap) >  
  
<!--  
A PKI / PKCS #7 digital signature data type  
-->  
<!ELEMENT enhanced-signature (pkcs7) >  
  
<!--  
kind of protection; e.g., patent, utility model  
-->  
<!ELEMENT kind-of-protection (#PCDATA) >  
  
<!--  
a TIFF image of a signature  
-->  
<!ELEMENT fax-image EMPTY >  
  
<!ATTLIST fax-image  
          file CDATA #REQUIRED >  
  
<!--  
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) >
```

```
<!--  
a simple 'signature', e.g., clicking a button labeled 'accept'  
or 'I agree'  
-->  
<!ELEMENT click-wrap EMPTY >  
  
<!--  
PKCS7 digital signature  
-->  
<!ELEMENT pkcs7 EMPTY >
```

5.7 Publication

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
*****
*   wo-published-application v1.0           2002 JANUARY           *
*****
*   PUBLIC "-//WIPO//DTD WO PUBLISHED APPLICATION 1.0//EN"       *
*   "wo-published-application.dtd" *
*****
*   http://pcteasy.wipo.int/efiling_standards/schemaDocs/       *
*   wo-published-application.dtd *
*****
*   contacts: *
*   WIPO: Shiro Ankyu; shiro.ankyu@wipo.int *
*   WIPO: John Dunning; john.dunning@wipo.int *
*****

PCT publication : wo-published-application (root element)

publication (PCT pamphlet) by International Bureau
Art 20 communication data by International Bureau

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

Note that nsgmls-based parsers (SP, Near & 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 & 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;

<!--
*****
* INCLUDE COMPONENT ePCT DTD (wo-bibliographic-data.dtd) *
*****
-->
<!--
WIPO bibliographic data component
-->
<!ENTITY % wo-bibliographic-data PUBLIC "-//WIPO//
DTD WO-BIBLIOGRAPHIC-DATA 1.0//EN" "wo-bibliographic-data.dtd">
%wo-bibliographic-data;

<!--
Root element : wo-published-application

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: n = new application
date-produced = YYYYMMDD e.g, 20011230
               if desired, 12 characters maximum
office-name   = PCT designated 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?,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 )* >

<!ATTLIST wo-published-application
          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)
                       #REQUIRED >

<!--

```

Description, Claims, Drawings

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:
n = new application
id = an identifier for this application (could be filename)
country = WIPO ST.3 code for application

-->

<!--

sub document information
front page of the published application

-->

<!ELEMENT front-page (doc-page+) >

<!ATTLIST front-page

id CDATA #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='a1.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" >

<!--

a drawing (figure), necessary for the understanding of the invention
Recommended id = f01, f02, etc.

-->

<!ELEMENT figure (img)>

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

<!--

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 >
<!--
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 = c01, c02, etc.;
              num 001, 002, etc.
-->
<!ELEMENT claim (claim-text+)>

<!ATTLIST claim id ID #IMPLIED
              num CDATA #REQUIRED >
<!--
reference to a claim
-->
<!ELEMENT claim-ref (#PCDATA)>

<!ATTLIST claim-ref idref IDREFS #REQUIRED >
<!--
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 >
<!--
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 >
<!--
  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 >
<!--
  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 >
<!--
  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 = p01, p02, etc.
    num = 001, 002, etc.
-->
<!ELEMENT p (#PCDATA | b | i | u | sup | sub | smallcaps | br | dl | ul
  | ol | figref | patcit | nplcit | bio-deposit | crossref | img
  | chemistry | maths | tables)+>
```

```

<!ATTLIST p  id ID      #IMPLIED
              num CDATA  #REQUIRED >
<!--
  TABLES
  This is image data or coded according to OASIS Exchange model
  with modified cell 'entry' content

  Recommended id = tabl01, tabl02, etc.
-->
<!ELEMENT tables (img | table)>

<!ATTLIST tables  id ID      #IMPLIED
                  num CDATA  #REQUIRED >
<!--
  a reference to a figure; e.g.,
  "...as shown in <figref idref="f01">figure <b>1</b></figref>..."
-->
<!ELEMENT figref (#PCDATA | b | i | u | sup | sub | smallcaps)*>

<!ATTLIST figref  idref IDREFS #IMPLIED
                  num CDATA  #IMPLIED >
<!--
  definition list

  Recommended id = dlis01, dlis02, etc.
-->
<!ELEMENT dl (dt , dd)+>

<!ATTLIST dl  tsize NMTOKEN #IMPLIED
              compact (compact ) #IMPLIED
              id ID      #IMPLIED >
<!--
  term to be defined

  Recommended id = dtrm01, dtrm02, etc.
-->
<!ELEMENT dt (#PCDATA | b | i | u | 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 = ulis01, ulis02, etc.
-->
<!ELEMENT ul (li+)>

<!ATTLIST ul  id ID      #IMPLIED
              list-style (bullet | dash | none ) 'bullet'
              compact (compact ) #IMPLIED >
<!--
  list item
  Recommended id = list01, list02, etc.
-->
<!ELEMENT li (#PCDATA | b | i | u | sup | sub | smallcaps | br | patcit
              | nplcit | bio-deposit | crossref | img | dl | ul | ol
              | chemistry | maths)*>

<!ATTLIST li  id ID #IMPLIED >
<!--
  MATHEMATICS
  This is image data or coded according to mathml, version 2

  Recommended id = math01, math02, etc.
-->
<!ELEMENT maths (img | math)>

<!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 = chem01, chem02, etc
-->
<!ELEMENT chemistry (img)>

<!ATTLIST chemistry  id  ID          #IMPLIED
                      num CDATA #REQUIRED >
<!--
  ordered lists: for now the default will be
  recommended style first level - 1. 2. 3. etc.
  For lists within lists -
    second level - a. b. c.
    third level - i. ii. iii.;
  These are stylesheet issues but are recommended for consistency.

  Recommended id = olis01, olis02, etc.
-->
<!ELEMENT ol (li+)>

<!ATTLIST ol  id      ID          #IMPLIED
              compact (compact ) #IMPLIED >
<!--
  image data
  image is used for any kind of image: art work, figures,
  complex work units (math, tables, chemistry), etc.

  Recommended:
    id      = i01, i02, 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.
-->
<!ELEMENT img EMPTY>

<!ATTLIST img  id      ID          #IMPLIED
              he      NMTOKEN    #REQUIRED
              wi      NMTOKEN    #REQUIRED
              file     CDATA      #REQUIRED
              alt      CDATA      #IMPLIED
              img-content (drawing | photograph | character
                          | dna | undefined ) 'drawing'
              img-format (jpg | tif | st33 | st35 ) #REQUIRED >
<!--
  Cross reference to any other element with an identifier (id)
-->
<!ELEMENT crossref (#PCDATA)>

<!ATTLIST crossref  idref  CDATA      #REQUIRED >
<!--
  biological deposit citation
  (US EFS: biological-deposit)
  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 = biod01, biod02, 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 - ncit1, ncit2, etc
  num - 0001, 0002
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 eg.
         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)*)>

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

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

<!ATTLIST refno id ID #IMPLIED >

<!ELEMENT author (((name | (prefix? , last-name , first-name , middle-name?
                        , suffix? , iid? , role? , orgname? , department?
                        , synonym*)) , registered-number?) | addressbook)>

<!ATTLIST author id ID #IMPLIED >

<!--
PATENT CITATIONS:
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="pcit1" dnum="US4793675A">
<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 - pcit01, pcit02, etc.
- num - 001, 002, 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

-->

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

```
<!ATTLIST patcit id ID #IMPLIED
dnum CDATA #IMPLIED
file CDATA #IMPLIED
url CDATA #IMPLIED
num CDATA #REQUIRED >
```

<!--

heading text; see Rule 5. Recommended id = h01, h02, etc.

-->

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

```
<!ATTLIST heading level (1 | 2 | 3 ) #IMPLIED
id ID #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, eg. in drawings

Recommended id = docp01, docp02, etc.

-->

```
<!ELEMENT doc-page EMPTY>
```

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

<!--

drawings: PCT Article 7 / Rule 7

Drawings shall be required when they are necessary for the understanding of the invention.


```
definition description
-->
<!ELEMENT dd (#PCDATA | b | i | u | sup | sub | smallcaps | br | patcit
              | nplcit | bio-deposit | crossref | 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: the identification assigned
  to the biological material by the depository
-->
<!ELEMENT bio-accno (#PCDATA)>

<!--
  information regarding the facility storing the biological deposit
-->
<!ELEMENT depository (#PCDATA | address)*>

<!--
  other citations - free form
-->
<!ELEMENT othercit (#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?
, history? , series? , hostno? , location? , notes?
, avail , class* , keyword* , cpyrt? , 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)
-->

```

```
<!--
  miscellaneous information relating to the history of the article;
  see ISO 12083
-->
<!--
  date article was revised
-->
<!--
  date article was accepted
-->
<!--
  date article was received
-->
<!--
  title of the host document/database
-->
<!--
  the title of the electronic resource
-->
<!--
  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*))>

<!--
Keyword; e.g., from a Thesaurus or class. scheme
-->
<!ELEMENT keyword (#PCDATA)>

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

<!--
  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 , date? , confno? , confplace?
                               , confsponsor*))>

<!--
  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? , issn? , isbn? , pubid?
                  , vid? , ino? , cpyrt?)>

<!--
  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.  
    eg. 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 eg. BMJ = British Medical Journal
-->
<!ELEMENT alttitle (#PCDATA)>

<!--
  serial title
-->
<!ELEMENT sertitle (#PCDATA)>

<!--
  Subordinate responsibility, e.g. editor, translator, etc.
-->
<!ELEMENT subname (((name | (prefix? , last-name , first-name
                        , middle-name? , suffix? , iid? , role? , orname?
                        , department? , synonym*)) , registered-number?)
                  | addressbook)>

<!--
  article title
-->
<!ELEMENT atl (#PCDATA)>

<!--  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 = auth01, auth02, etc.
-->

<!--
  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)>

<!ELEMENT category (#PCDATA)>

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

<!--
  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 >

<!--
  remarks section
-->
<!ELEMENT remarks (p+)>

<!--

```

```

    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 ((invention-title | heading+ | p+ | doc-page+
    | claim+ | figure+))>

<!ATTLIST replace-object  num      CDATA  #IMPLIED
                           id       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 ((invention-title | heading+ | p+ | doc-page+
    | claim+ | figure+))>

<!ATTLIST insert-after-object  num      CDATA  #IMPLIED
                               id       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 ((invention-title | heading+ | p+ | doc-page+
    | claim+ | figure+))>

<!ATTLIST insert-before-object  num      CDATA  #IMPLIED
                               id       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  num      CDATA  #IMPLIED
                           id       CDATA  #IMPLIED
                           location 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   #REQUIRED
                           status  CDATA   #REQUIRED >

<!--
    statement concerning amendments (PCT Article 19.1, PCT Rule 46.4)
-->
<!ELEMENT statement (#PCDATA | b | i | u | sup | sub)*>

<!--
    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 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 ST.25 and be an external file Recommended id = 'seq1'
-->
<!ELEMENT sequence-list-doc (doc-page+ | sequence-list+)>

<!ATTLIST sequence-list-doc
            id          ID          #IMPLIED
            lang        CDATA       #IMPLIED
            status       CDATA       #IMPLIED >

<!ELEMENT sequence-list EMPTY>

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

<!--
indication-bio-deposit
-->

<!ELEMENT biological-material-doc ((application-reference?
, file-reference-id? , indications
, (bio-deposit , additional-indication?
, (all-designations | designated-states)
, separate-indications?)+) | doc-page+)>

<!ATTLIST biological-material-doc
            id          ID          #IMPLIED
            lang        CDATA       #IMPLIED
            status       CDATA       #IMPLIED >

<!--
biological deposit citation
(US EFS: biological-deposit)
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 = biod01, biod02, etc.
-->

<!--
separate furnishing of indications
-->
<!ELEMENT separate-indications (#PCDATA)>

<!--
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)>

<!--
indications relate to the bio-deposit in the application body
-->

```

```
<!--ELEMENT indications (para-number+)-->

<!--
  indications relate to the bio-deposit in the
  application body at paragraph number
-->
<!--ELEMENT para-number (#PCDATA)-->

<!--
  Declaration as to non-prejudicial disclosures or exceptions to
  lack of novelty (PCT Rules 4.17(v) and 51bis.1(a)(v))
-->
<!--ELEMENT lack-of-novelty (doc-page+ | (application-reference?
  , ((name | (prefix? , last-name , first-name
  , middle-name? , suffix? , iid? , role? , orgname?
  , department? , synonym*)) , registered-number?)
  , ((date | address | title-of-disclosure
  | method-of-disclosure | dtext)+
  , (all-designations | designated-states))))-->

<!--
  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)-->

<!--
  PCT Rule91.1(f): "Any authority which authorizes or refuses any
  rectification shall promptly notify the applicant of the authorization
  or refusal and, in the case of refusal, of the reasons therefor.."
-->
<!--ELEMENT pct-rule91-1f (doc-page+ | pct-rule91-1f-doc) >

<!--ATTLIST pct-rule91-1f
  lang      CDATA      #IMPLIED
  id         ID         #IMPLIED
  status     CDATA      #IMPLIED >

<!--
  dummy element. After producing dtd for pct-rule91-1f, the element
  is replaced
-->
```

```
<!--ELEMENT pct-rule91-1f-doc (#PCDATA) >

<!--ELEMENT priority-claim-considered-not-made
      (doc-page+ | priority-claim-considered-not-made-doc)
>

<!--ATTLIST priority-claim-considered-not-made
      lang      CDATA      #IMPLIED
      id        ID        #IMPLIED
      status    CDATA      #IMPLIED  >

<!--
  dummy element. After producing dtd for priority-claim-considered-not-made
  document, the element is replaced
-->
<!--ELEMENT priority-claim-considered-not-made-doc (#PCDATA) >

<!--
  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  >

<!--
  dummy element. After producing dtd for art17.2a document,
  the element is replaced
-->
<!--ELEMENT art17.2a-doc (#PCDATA) >

<!--
  International Search Report
-->
<!--ELEMENT wo-search-report (doc-page+ | search-report) >

<!--ATTLIST wo-search-report
      lang      CDATA      #IMPLIED
      id        ID        #IMPLIED
      status    CDATA      #IMPLIED  >

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

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

5.8 International Preliminary Examination Report

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
*****
* international preliminary examination report v0.9 2002 May
*****
* PUBLIC "-//WIPO//DTD IPER 0.9//EN" "iper.dtd"
*****
* http://pcteasy.wipo.int/efiling_standards/schemaDocs/iper.dtd
*****
* contacts:
* WIPO: Shiro Ankyu; shiro.ankyu@wipo.int
* WIPO: John Dunning; john.dunning@wipo.int
*****

Notes:

This DTD is based on Forms PCT/IPEA/409
-->
<!--
*****
* 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 & 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;

<!--
Root element
-->
<!ELEMENT iper (doc-page+ | (iper-info,iper-admin?,(doc-page+ | (sheet-of-annexes,
iper-basis,iper-priority?,iper-non-establishment?,
iper-unity-of-invention,pct-art35-2-statement,iper-citations?,
defect-in-application?,observation-on-application?,dtext*)),
iper-annex-doc*,pct-art34-doc*)) >

<!ATTLIST iper
            lang          CDATA          #REQUIRED
            dtd-version   CDATA          #IMPLIED
            file           CDATA          #IMPLIED
            status         CDATA          #IMPLIED
            produced-by (applicant | RO | ISA | IPEA | IB | DO | EO)
                        #REQUIRED
            date-produced  CDATA          #IMPLIED
            ipea           CDATA          #REQUIRED >

<!--
IPER identification information group element
-->
<!ELEMENT iper-info (file-reference-id?,application-reference,
date-of-earliest-priority?,classification-ipc?,
applicant-name?) >

<!--
total pages of the IPER
-->
<!ATTLIST iper-info
            total-page-count CDATA          #IMPLIED >

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

<!--
application reference information: application number, country
-->
<!ELEMENT application-reference (document-id) >

<!ATTLIST application-reference
            appl-type CDATA          #REQUIRED >

<!--
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 >

<!ELEMENT country (#PCDATA) >

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

<!--
document kind code; e.g. A1
-->

```

```
<!-- ELEMENT kind (#PCDATA) -->
<!-- ELEMENT name (#PCDATA) -->
<!-- ATTLIST name
      name-type (legal | natural) #IMPLIED -->
<!-- ELEMENT date (#PCDATA) -->
<!--
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) -->
<!--
International classification based on ST.8
-->
<!-- ELEMENT classification-ipc (edition, main-classification, further-classification*,
      (additional-info | linked-indexing-code-group |
      unlinked-indexing-code)*, text?) -->
<!-- ELEMENT edition (#PCDATA) -->
<!-- ELEMENT main-classification (#PCDATA) -->
<!-- ELEMENT further-classification (#PCDATA) -->
<!-- ELEMENT additional-info (#PCDATA) -->
<!-- ELEMENT linked-indexing-code-group (main-linked-indexing-code,
      sub-linked-indexing-code+) -->
<!-- ELEMENT main-linked-indexing-code (#PCDATA) -->
<!-- ELEMENT sub-linked-indexing-code (#PCDATA) -->
<!-- ELEMENT unlinked-indexing-code (#PCDATA) -->
<!-- ELEMENT text (#PCDATA) -->
<!--
the name of the applicant
-->
<!-- ELEMENT applicant-name ((name | (prefix?, last-name, first-name, middle-name?,
      suffix?, iid?, role?, orgname?, department?, synonym*)),
      registered-number?) -->
<!--
title: e.g., Mr., Mrs., Dr. etc
-->
<!-- ELEMENT prefix (#PCDATA) -->
<!--
last, family, surname
-->
<!-- ELEMENT last-name (#PCDATA) -->
<!--
First or given name(s), initial(s)
-->
<!-- ELEMENT first-name (#PCDATA) -->
<!--
middle name(s) or initial(s)
-->
<!-- ELEMENT middle-name (#PCDATA) -->
```

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

<!--
  individual id
-->
<!ELEMENT iid (#PCDATA) >

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

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

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

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

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

<!--
  IPER administration data group
-->
<!ELEMENT iper-admin (examiners?,ipea-address,completion-date,demand-submit-date)
>

<!--
  Examiners information group.
-->
<!ELEMENT examiners (primary-examiner?,assistant-examiner?,authorized-officer?) >

<!--
  name of primary examiner.
-->
<!ELEMENT primary-examiner (((name | (prefix?,last-name,first-name,middle-name?,
                                   suffix?,iid?,role?,orgname?,department?,synonym*)),
                                   registered-number?),electronic-signature?) >

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

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

<!--
  a TIFF image of a signature
-->
<!ELEMENT fax-image 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) >

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

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

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

<!--
Name of assistant examiner
-->
<!ELEMENT assistant-examiner (((name | (prefix?,last-name,first-name,middle-name?,
suffix?,iid?,role?,orgname?,department?,synonym*)),
registered-number?),electronic-signature?) >

<!--
Name of authorized officer
-->
<!ELEMENT authorized-officer (((name | (prefix?,last-name,first-name,middle-name?,
suffix?,iid?,role?,orgname?,department?,synonym*)),
registered-number?),electronic-signature?) >

<!--
International Preliminary Examination Authority; international preliminary
examination
to be carried out by
-->
<!ELEMENT ipea-address (ipea,addressbook?) >

<!--International Search Authority; country code ST.3
-->
<!ELEMENT ipea (country) >

<!ELEMENT addressbook (((((name | (prefix?,last-name,first-name,middle-
name?,suffix?,
iid?,role?,orgname?,department?,synonym*)),registered-
number?),
address,phone*,fax*,email*,url*,ead*,dtext?) | text) >

<!ELEMENT address ((address-1?,address-2?,address-3?,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) >  
  
<!--  
organizational mail code  
-->  
<!ELEMENT mailcode (#PCDATA) >  
  
<!--  
Post Office Box number  
-->  
<!ELEMENT pobox (#PCDATA) >  
  
<!--  
address room; e.g., Room 55B  
-->  
<!ELEMENT room (#PCDATA) >  
  
<!--  
address floor, e.g., 10th  
-->  
<!ELEMENT address-floor (#PCDATA) >  
  
<!--  
building information in address, e.g., Hoffman building  
-->  
<!ELEMENT building (#PCDATA) >  
  
<!--  
street may contain house number or name  
-->  
<!ELEMENT street (#PCDATA) >  
  
<!--  
City or town name  
-->  
<!ELEMENT city (#PCDATA) >  
  
<!--  
County, parish, department, etc (mainly UK, USA)  
-->  
<!ELEMENT county (#PCDATA) >  
  
<!--  
Region of country eg. state, province, etc.  
-->  
<!ELEMENT state (#PCDATA) >  
  
<!--  
postal code or zip code  
-->  
<!ELEMENT postcode (#PCDATA) >  
  
<!--  
telephone number  
-->  
<!ELEMENT phone (#PCDATA) >  
  
<!--  
fax number  
-->  
<!ELEMENT fax (#PCDATA) >  
  
<!--  
email address  
-->  
<!ELEMENT email (#PCDATA) >
```

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

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

<!ELEMENT dtext (#PCDATA) >

<!--
Completion date
-->
<!ELEMENT completion-date (date) >

<!--
Date of submission of demand, format YYYYMMDD
-->
<!ELEMENT demand-submit-date (date) >

<!--
In case the report is also accompanied by Annexes, attribute present="yes",
page count in the attribute is for total number of Annexes pages.
-->
<!ELEMENT sheet-of-annexes EMPTY >

<!ATTLIST sheet-of-annexes
        present (yes | no) #REQUIRED
        page-count CDATA #IMPLIED >

<!--
Data group of basis of the report (section I)
-->
<!ELEMENT iper-basis ((iper-application?, iper-description*, iper-claims*,
        iper-drawings*, iper-sequence-listing*),
        language-for-examination, examin-sequence-list?,
        cancellation-doc?, pct-rule70-2c?) >

<!--
With regard to the elements of the international application:
-->
<!ELEMENT iper-application EMPTY >

<!--
In case the international application as originally filed
-->
<!ATTLIST iper-application
        basis (originally) #REQUIRED >

<!--
The description
-->
<!ELEMENT iper-description (rel-pages | rel-para)+ >

<!ATTLIST iper-description
        des-basis (originally-filed | with-demand | with-letter)
        #REQUIRED
        date-of-letter CDATA #IMPLIED >

<!--
Referenced pages
-->
<!ELEMENT rel-pages (#PCDATA) >

<!--
Referenced paragraph
-->
```

```

<!ELEMENT rel-para (#PCDATA) >

<!--
  The claims
-->
<!ELEMENT iper-claims (rel-claims+) >

<!ATTLIST iper-claims
          cl-basis (originally-filed | under-art19 | with-demand | with-
letter)
          #REQUIRED
          date-of-letter CDATA      #IMPLIED >

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

<!--
  The drawings
-->
<!ELEMENT iper-drawings (rel-pages+ | rel-figures+)+ >

<!ATTLIST iper-drawings
          dr-basis (originally-filed | with-demand | with-letter)      #REQUIRED
          date-of-letter CDATA      #IMPLIED >

<!--
  Referenced figure number
-->
<!ELEMENT rel-figures (#PCDATA) >

<!--
  The sequence listing part of the description
-->
<!ELEMENT iper-sequence-listing (rel-pages+) >

<!ATTLIST iper-sequence-listing
          seq-basis (originally-filed | with-demand | with-letter)
          #REQUIRED
          date-of-letter CDATA      #IMPLIED >

<!--
  Language of examination
-->
<!ELEMENT language-for-examination EMPTY >

<!ATTLIST language-for-examination
          lang CDATA      #REQUIRED
          examin-lang (originally-filed | publication | translation-isa |
translation-ipea) "originally-filed" >

<!--
Sequence listing data:
Stylesheet (if present):
With regard to any <b>nucleotide and/or amino acid sequence</b>
disclosed in the international application, the international search
was carried out on the basis of the sequence listing:
(then one of the attribute texts)
Value of attribute basis

  1 : contained in the international application in written form.
  2 : filed together with the international application in computer readable form.
  3 : furnished subsequently to this Authority in written form.
  4 : furnished subsequently to this Authority in computer readable form.
  5 : The statement that the subsequently furnished written sequence listing daose
not
      go beyond the disclosure in the inthernational application as filed has been
      furnished.
  6 : The statement that the information recorded in computer readable form is
identical

```

```
to the written sequence listing has been furnished.
-->
<!ELEMENT examin-sequence-list EMPTY >

<!ATTLIST examin-sequence-list
    basis (1 | 2 | 3 | 4 | 5 | 6) "1" >

<!--
    The amendments have resulted in the cancellation of :
-->
<!ELEMENT cancellation-doc (amend-description?,amend-claims?,amend-drawings?) >

<!ELEMENT amend-description (rel-pages | rel-para)+ >

<!ELEMENT amend-claims (rel-claims+) >

<!ELEMENT amend-drawings (rel-pages+ | rel-figures+)+ >

<!--
    In case this report has been established as if the amendments had not been made
    (PCT Rule 70.2(c)):
-->
<!ELEMENT pct-rule70-2c EMPTY >

<!--
    Priority information (Section II) :
-->
<!ELEMENT iper-priority (no-earlier-application?,no-translation?,
    invalid-priority?,text*) >

<!--
    This report has been established as if no priority had been claimed due to the
    failure
    to furnish within the prescribed timelimit the requested:

    copy of the earlier application whose priority has been claimed.
-->
<!ELEMENT no-earlier-application EMPTY >

<!--
    translation of the earlier application whose priority has been claimed.
-->
<!ELEMENT no-translation EMPTY >

<!--
    This report has been established as if no priority had been claimed due to the fact
    that the priority claim has been found invalid.
-->
<!ELEMENT invalid-priority EMPTY >

<!--
    Non-establishment of opinion with regard to novelty, inventive step and
    industrial applicability (Section III)
-->
<!ELEMENT iper-non-establishment (no-examination?,no-annex-c?) >

<!--
    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 no-examination ((entire-application | rel-claims+),not-
    require?,unclear?,
    inadequately?,no-isr?) >

<!--
    the entire international application.
-->
<!ELEMENT entire-application EMPTY >
```

```
<!--
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 not-require (rel-claims*,p+) >

<!--
paragraph Recommended id = p01, p02, etc. num = 001, 002, etc.
-->
<!ELEMENT p (#PCDATA | b | i | u | sup | sub | smallcaps | br | dl | ul | ol |
figref | patcit | nplcit | bio-deposit | crossref | img | chemistry
|
maths | tables)* >

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

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

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

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

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

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

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

<!--superscripted text-->
<!ELEMENT sup (#PCDATA | b | u | i)* >

<!--subscripted text-->
<!ELEMENT sub (#PCDATA | b | u | i)* >

<!--definition list Recommended id = d1s01, d1s02, etc.-->
<!ELEMENT dl (dt,dd)+ >

<!ATTLIST dl
tsize NMTOKEN #IMPLIED
compact (compact) #IMPLIED
id ID #IMPLIED >

<!--term to be defined Recommended id = dtrm01, dtrm02, etc.-->
<!ELEMENT dt (#PCDATA | b | i | u | sup | sub | smallcaps)* >

<!ATTLIST dt
id ID #IMPLIED >

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

<!--PATENT CITATIONS:
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="pcit1" dnum="US4793675A">
<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 - pcit01, pcit02, 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

-->

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

```
<!ATTLIST patcit
```

```
    id ID      #IMPLIED
    dnum CDATA  #IMPLIED
    file CDATA  #IMPLIED
    url CDATA   #IMPLIED >
```

<!--

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) >
```

<!-->

```
<!ELEMENT category (#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):

id - ncit1, ncit2, etc

num - 0001, 0002

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 eg.

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)*) >

<!ATTLIST nplcit

| | | |
|----------|-------|-----------|
| id | ID | #IMPLIED |
| num | CDATA | #REQUIRED |
| npl-type | CDATA | #IMPLIED |
| medium | CDATA | #IMPLIED |
| file | 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.

[XPnnnnnnnnnnnn].

[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 = auth01, auth02, etc.

-->

<!ELEMENT author ((name | (prefix?,last-name,first-name,middle-name?,suffix?,iid?,
role?,orgname?,department?,synonym*)),registered-number?) >

<!ATTLIST author

id ID #IMPLIED >

<!--

article title

-->

<!ELEMENT at1 (#PCDATA) >

<!--Subordinate responsibility, e.g. editor, translator, etc.

-->

<!ELEMENT subname (((name | (prefix?,last-name,first-name,middle-
name?,suffix?,iid?,
role?,orgname?,department?,synonym*)),registered-number?) |
addressbook) >

<!--

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?,issn?,isbn?,pubid?,vid?,ino?,cpyrt?) >

<!--

serial title

-->

<!ELEMENT sertitle (#PCDATA) >

<!--

Alternate title for serial eg. 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.
eg. 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) >

<!--
International standard serial number
-->
<!ELEMENT issn (#PCDATA) >

<!--
International standard book number
-->
<!ELEMENT isbn (#PCDATA) >

<!--
Publisher's unique id
-->
<!ELEMENT pubid (#PCDATA) >

<!--
Volume id/number
-->
<!ELEMENT vid (#PCDATA) >

<!--
issue number
-->
<!ELEMENT ino (#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?,descrip?,series?,absno?,location*,isbn*,pubid?,vid?,
    bookno?,notes?,class*,keyword*,cpyrt?,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 [CONFERENCE] and no sub tags
-->
<!ELEMENT conference (text | (conftitle,date?,confno?,confplace?,confsponsor*)) >

<!--
Conference title
-->
<!ELEMENT conftitle (#PCDATA) >

<!--
Conference number
-->
<!ELEMENT confno (#PCDATA) >

<!--
Conference place
-->
<!ELEMENT confplace (#PCDATA | address)* >

<!--
Conference sponsor
-->
<!ELEMENT confsponsor (#PCDATA | addressbook)* >

<!--
book subtitle
-->
<!ELEMENT subtitle (#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 | linel)* >

<!--
cited document line, first
-->
<!ELEMENT linef (#PCDATA) >

<!--
```

```
cited document line, last
-->
<!ELEMENT line1 (#PCDATA) >

<!--
book number
-->
<!ELEMENT bookno (#PCDATA) >

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

<!--
Keyword; e.g., from a Thesaurus or class. scheme
-->
<!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@nrlc-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@nrlc-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*)) >
```

```
<!--
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) >

<!--
biological deposit citation (US EFS: biological-deposit) 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 = biod01, biod02, 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 >

<!--
information regarding the facility storing the biological deposit-->
<!-- ELEMENT depository (#PCDATA | address)* >

<!--
biological accession number: the identification assigned to the biological material
by the depository-->
<!-- ELEMENT bio-accno (#PCDATA) >

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

```

```

<!ELEMENT term (#PCDATA) >

<!--
Cross reference to any other element with an identifier (id)-->
<!ELEMENT crossref (#PCDATA) >

<!ATTLIST crossref
    idref CDATA #REQUIRED >

<!--
image data image is used for any kind of image: art work, figures, complex work
units (math, tables, chemistry), etc. Recommended: id = i01, i02, 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.
-->
<!ELEMENT img EMPTY >

<!ATTLIST img
    id ID #IMPLIED
    he NMTOKEN #REQUIRED
    wi NMTOKEN #REQUIRED
    file CDATA #REQUIRED
    label CDATA #IMPLIED
    alt CDATA #IMPLIED
    img-content (drawing | photograph | character | dna | undefined)
    "drawing"
    img-format (jpeg | tiff | jfif | st33 | st35) #REQUIRED >

<!--
Unordered Lists list-style may be empty for lists with no bullet or other symbol
default list-style is 'bullets' Recommended id = ulis01, ulis02, etc.
-->
<!ELEMENT ul (li+) >

<!ATTLIST ul
    id ID #IMPLIED
    list-style (bullet | dash | none) "bullet"
    compact (compact) #IMPLIED >

<!--
list item Recommended id = list01, list02, etc.
-->
<!ELEMENT li (#PCDATA | b | i | u | sup | sub | smallcaps | br | patcit | nplcit |
    bio-deposit | crossref | img | dl | ul | ol | chemistry | maths)* >

<!ATTLIST li
    id ID #IMPLIED >

<!--
ordered lists: for now the default will be recommended style first level - 1. 2. 3.
etc.
For lists within lists - second level - a. b. c. third level - i. ii. iii.; These
are
stylesheet issues but are recommended for consistency. Recommended id = olis01,
olis02, etc.
-->
<!ELEMENT ol (li+) >

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

<!--
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 = chem01, chem02, etc
-->
<!ELEMENT chemistry (img) >

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

<!--
MATHEMATICS This is image data or coded according to mathml, version 2 Recommended
id = math01, math02, etc.
-->
<!ELEMENT maths (img | math) >

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

<!--
a reference to a figure; e.g., "...as shown in <figref idref="f01">
figure <b>1</b></figref>..."
-->
<!ELEMENT figref (#PCDATA | b | i | u | sup | sub | smallcaps)* >

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

<!--
TABLES This is image data or coded according to OASIS Exchange model with modified
cell 'entry' content Recommended id = tabl01, tabl02, etc.
-->
<!ELEMENT tables (img | table) >

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

<!--
the description, claims or drawings (indicate particular elements below) or
said claims Nos.(rel-claims)
are so unclear that no meaningful opinion could be formed (specify):
-->
<!ELEMENT unclear (rel-claims*,p+) >

<!--
the claims, or said claims Nos. (rel-claims) are so inadequately supported
by the description that no meaningful opinion could be formed.
-->
<!ELEMENT inadequately (rel-claims*) >

<!--
no international search report has been established for said claims Nos.(rel-
claims)
-->
<!ELEMENT no-isr EMPTY >

<!--
A meaningful international preliminary examination cannot be carried out due to
the
failure of the nucleotide and/or amino acid sequence listing to comply with the
standard provided for in Annex C of the Administrative Instructions:
-->
<!ELEMENT no-annex-c (no-paper?,no-electronic?) >

<!--
the written form has not been furnished or does not comply with the standard.
-->

```

```
<!ELEMENT no-paper EMPTY >

<!--
the computer readable form has not been furnished or does not comply with the
standard.
-->
<!ELEMENT no-electronic EMPTY >

<!--
Lack of unity of invention (Section IV)
-->
<!ELEMENT iper-unity-of-invention (restricted?,paid-fees?,paid-protest?,no-
action?,
                                pct-rule68-1?,requirement-unity-invention,
                                subject-examination) >

<!--
In response to the invitation to restrict or pay additional fees the applicant
has:
restricted the claims.
-->
<!ELEMENT restricted EMPTY >

<!--
paid additional fees.
-->
<!ELEMENT paid-fees EMPTY >

<!--
paid additional fees under protest.
-->
<!ELEMENT paid-protest EMPTY >

<!--
neither restricted nor paid additional fees.
-->
<!ELEMENT no-action EMPTY >

<!--
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 pct-rule68-1 EMPTY >

<!--
This Authority considers that the requirement of unity of invention in
accordance with Rules 13.1, 13.2 and 13.3 is

    complied with or,
    not complied with for the following reasons:
-->
<!ELEMENT requirement-unity-invention (p*) >

<!ATTLIST requirement-unity-invention
    compliance (yes | no) #REQUIRED >

<!--
Consequently, the following parts of the international application were the
subject of international preliminary examination in establishing this report:
-->
<!ELEMENT subject-examination (entire-application | rel-claims+) >

<!--
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 (statement-novelty+,statement-inventive-step+,
```

```
statement-applicability+,p+) >

<!ELEMENT statement-novelty (rel-claims+) >

<!ATTLIST statement-novelty
    status (yes | no) #REQUIRED >

<!ELEMENT statement-inventive-step (rel-claims+) >

<!ATTLIST statement-inventive-step
    status (yes | no) #IMPLIED >

<!ELEMENT statement-applicability (rel-claims+) >

<!ATTLIST statement-applicability
    status (yes | no) #IMPLIED >

<!--
    Certain documents cited (Section VI)
-->
<!ELEMENT iper-citations (text | citation)+ >

<!--
    reference to other documents, either patent literature (patcit)
    or non-patent literature (nplcit)

    recommended id = 'cit01', 'cit02', etc.
-->
<!ELEMENT citation (patcit | (nplcit,rel-passage*) | text)* >

<!--
    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+) >

<!--
    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+) >

<!--
    Body of the annex to the International Preliminary Examination Report
-->
<!ELEMENT iper-annex-doc (doc-page | iper-annex-xml-doc)+ >

<!ELEMENT iper-annex-xml-doc EMPTY >

<!ATTLIST iper-annex-xml-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 Article 34 Amendment document
-->
<!ELEMENT pct-art34-doc (doc-page | pct-art34-xml-doc)+ >

<!ELEMENT pct-art34-xml-doc EMPTY >

<!ATTLIST pct-art34-xml-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 >
```

<!--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, eg. in drawings

Recommended id = docp01, docp02, etc.

-->

<!ELEMENT doc-page EMPTY >

<!ATTLIST doc-page

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

5.9 Search Report

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!--
*****
* search-report v0.91 2002 May *
*****
* PUBLIC "-//WIPO//DTD WO SEARCH REPORT 0.91//EN" "search-report.dtd" *
*****
* http://pcteasy.wipo.int/efiling_standards/schemaDocs/search-report.dtd *
*****
* contacts: *
* EPO: Paul Brewin; pbrewin@epo.org *
* JPO: Mitsuru Sono; sono-mitsuru@jpo.go.jp *
* USPTO: Bruce B. Cox; bruce.cox@uspto.gov *
* WIPO: Shiro Ankyu; shiro.ankyu@wipo.int *
* WIPO: John Dunning; john.dunning@wipo.int *
*****
* revision history *
*****
```

Notes:

This DTD is based on Forms PCT/ISA/210 July 1998

The user will not enter this data - it will be extracted
from PCT/Office databases most likely

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 pamphlet.

-->

<!--

```
*****
* 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 & 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;

<!--
Root element
-->
<!ELEMENT search-report (doc-page+ | (srep-info?,search-report-for-pub,
srep-patent-family?)) >

<!ATTLIST search-report
id ID #IMPLIED
lang CDATA #REQUIRED
dtd-version CDATA #IMPLIED
file CDATA #IMPLIED
status CDATA #IMPLIED
date-produced CDATA #REQUIRED
search-type CDATA #IMPLIED
srep-office CDATA #REQUIRED >

<!--
Search report identification information group element
-->
<!ELEMENT srep-info (doc-page+ | (file-reference-id?,application-reference,
date-of-earliest-priority?,applicant-name,srep-prior-doc*,
srep-basis,srep-invention-title,srep-abstract,
srep-figure-to-publish)) >

<!ATTLIST srep-info
total-page-count CDATA #IMPLIED >

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

<!--
application reference information: application number, country
-->
<!ELEMENT application-reference (document-id) >

<!ATTLIST application-reference
appl-type CDATA #REQUIRED >

<!--
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 >
```

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

<!--
document kind code; e.g. A1
-->
<!ELEMENT kind (#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,first-name,middle-
name?,suffix?,
                                iid?,role?,orgname?,department?,synonym*)),registered-
number?),
                        address,phone*,fax*,email*,url*,ead*,dtext?) | text) >

<!ATTLIST addressbook
            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 >

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

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

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

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

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

<!--
individual id
-->
<!ELEMENT iid (#PCDATA) >

<!--
role, e.g. President, Chairman, etc.
```

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

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

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

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

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

<!--a
ddress components:
Address formats differ from country to country
If no structure possible use text
-->
<!ELEMENT address ((address-1?,address-2?,address-3?,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) >

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

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

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

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

<!--
```

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

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

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

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

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

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

<!--
Country: use ST.3 country code, e.g. DE, FR, GB, NL, etc.
Also includes EP, W0
-->
<!ELEMENT country (#PCDATA) >

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

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

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

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

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

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

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

```
<!--
Date of mailing YYYYMMDD
-->
<!ELEMENT date-of-mailing (date) >

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

<!--the name of the applicant-->
<!ELEMENT applicant-name ((name | (prefix?,last-name,first-name,middle-name?,
suffix?,iid?,role?,orgname?,department?,synonym*)),
registered-number?) >

<!ELEMENT authorized-officer (((name | (prefix?,last-name,first-name,middle-name?,
suffix?,iid?,role?,orgname?,department?,synonym*)),
registered-number?),electronic-signature?) >

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

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

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

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

<!ATTLIST fax-image
            file  CDATA      #REQUIRED >

<!--
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) >

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

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

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

<!--
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) >
```

```
<!--
A copy of each prior art document cited in this report
-->
<!ELEMENT srep-prior-doc (doc-page | prior-xml-doc)+ >

<!ELEMENT prior-xml-doc EMPTY >

<!ATTLIST prior-xml-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 >

<!--
Basis of the Report
-->
<!ELEMENT srep-basis (language-for-search, search-sequence-list?) >

<!--
Styleheet will generate via Attribute value :
filing = With regard to the <b>language</b>, the international
search was carried out on the basis of the international
application in the language in which it was filed, (default)
translation = With regard to the <b>language</b>, the international search
was carried out on the basis of a translation of the
international application furnished to this Authority
(Rule 23.1(b)).
-->
<!ELEMENT language-for-search EMPTY >

<!ATTLIST language-for-search
    search-lang (originally-filed | translation-isa)
        "originally-filed" >

<!--Search report containing four main blocks:

220 communication
210 first sheet
210 second sheet
210 patent family

Sequence listing data:
Stylesheet (if present):
With regard to any <b>nucleotide and/or amino acid sequence</b>
disclosed in the international application, the international search
was carried out on the basis of the sequence listing:
(then one of the attribute texts)
Value of attribute basis

1 : contained in the international application in written form.
2 : filed together with the international application in computer readable form.
3 : furnished subsequently to this Authority in written form.
4 : furnished subsequently to this Authority in computer readable form.
5 : The statement that the subsequently furnished written sequence listing daose
not
    go beyond the disclosure in the inthernational application as filed has been
    furnished.
6 : The statement that the information recorded in computer readable form is
identical
    to the written sequence listing has been furnished.

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

<!ATTLIST search-sequence-list
    basis (1 | 2 | 3 | 4 | 5 | 6) "1" >
```

```
<!--
Title - old box 4
Stylesheet generates: <b>Title</b><br></br>
(followed by:
The text is approved as submitted by the applicant -
[attribute "yes" (default)]
or
The text has been established by this ISA to read
as follows:

[a revised title if present - attribute "no"]
-->
<!ELEMENT srep-invention-title (invention-title?) >

<!ATTLIST srep-invention-title
          approval (yes | no) "yes" >

<!--
Title of the Invention: 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 | sup | sub)* >

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

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

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

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

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

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

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

<!--
superscripted text
-->
<!ELEMENT sup (#PCDATA | b | u | i)* >

<!--
subscripted text
-->
<!ELEMENT sub (#PCDATA | b | u | i)* >

<!--
```

```

Abstract - old box 5
Stylesheet generates : <b>Abstract</b><br/>
(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.

a revised abstract if present [attribute "no"]
-->
<!ELEMENT srep-abstract (abstract?) >

<!ATTLIST srep-abstract
    approval (yes | no) "yes" >

<!--
ABSTRACT: PCT Rule 8
A concise summary of the disclosure, 50-150 words.

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

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

<!ELEMENT abst-problem (p+) >

<!ATTLIST abst-problem
    id ID #IMPLIED >

<!--
paragraph Recommended id = p01, p02, etc. num = 001, 002, etc.
-->
<!ELEMENT p (#PCDATA | b | i | u | sup | sub | smallcaps | br | dl | ul | ol |
    figref | patcit | nplcit | bio-deposit | crossref | img | chemistry
    |
    maths | tables)* >

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

<!--
definition list Recommended id = dlis01, dlis02, etc.
-->
<!ELEMENT dl (dt,dd)+ >

<!ATTLIST dl
    tsize NMTOKEN #IMPLIED
    compact (compact) #IMPLIED
    id ID #IMPLIED >

<!--
term to be defined Recommended id = dtrm01, dtrm02, etc.
-->
<!ELEMENT dt (#PCDATA | b | i | u | sup | sub | smallcaps)* >

<!ATTLIST dt
    id ID #IMPLIED >

<!--
definition description
-->

```

```

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

<!--
PATENT CITATIONS:
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="pcit1" dnum="US4793675A">
<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 - pcit01, pcit02, 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
-->
<!ELEMENT patcit (text | (document-id,rel-passage*)) >

<!--
<!--
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) >

<!--
<!--
relevant claims
-->
<!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):

id - ncit1, ncit2, etc

num - 0001, 0002

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 eg.

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)*) >

<!ATTLIST nplcit

| | | |
|----------|-------|-----------|
| id | ID | #IMPLIED |
| num | CDATA | #REQUIRED |
| npl-type | CDATA | #IMPLIED |
| medium | CDATA | #IMPLIED |
| file | 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.
[XPnnnnnnnnnnn].

```
[nplcit id="ncit1" num="0012" type="S" file="XP1234456"]
[article]
[author]
[name]DROP, J.G.[/name][author]
[at1]
Integrated Circuit Personalization at the Module Level
[/at1]
[serial]
[seritle]IBM Tech. Dis. Bull.[/seritle]
[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 = auth01, auth02, etc.

-->

```
<!ELEMENT author ((name | (prefix?,last-name,first-name,middle-name?,suffix?,iid?,
                           role?,orgname?,department?,synonym*)),registered-number?) >
```

<!ATTLIST author

id ID #IMPLIED >

<!--

article title

-->

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

<!--

Subordinate responsibility, e.g. editor, translator, etc.

-->

```
<!ELEMENT subname (((name | (prefix?,last-name,first-name,middle-
name?,suffix?,iid?,
                           role?,orgname?,department?,synonym*)),registered-number?) |
addressbook) >
```

<!--

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?,issn?,isbn?,pubid?,vid?,ino?,cpyrt?) >
```

<!--

serial title

-->

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

<!--

Alternate title for serial eg. 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.  
eg. 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) >  
  
<!--  
International standard serial number  
-->  
<!ELEMENT issn (#PCDATA) >  
  
<!--  
International standard book number  
-->  
<!ELEMENT isbn (#PCDATA) >  
  
<!--  
Publisher's unique id  
-->  
<!ELEMENT pubid (#PCDATA) >  
  
<!--  
Volume id/number  
-->  
<!ELEMENT vid (#PCDATA) >  
  
<!--  
issue number  
-->  
<!ELEMENT ino (#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?,descrip?,series?,absno?,location*,isbn*,pubid?,vid?,
bookno?,notes?,class*,keyword*,cpyrt?,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 [CONFERENCE] and no sub tags
-->
<!ELEMENT conference (text | (conftitle,date?,confno?,confplace?,confsponsor*)) >

<!--
Conference title
-->
<!ELEMENT conftitle (#PCDATA) >

<!--
Conference number
-->
<!ELEMENT confno (#PCDATA) >

<!--
Conference place
-->
<!ELEMENT confplace (#PCDATA | address)* >

<!--
Conference sponsor
-->
<!ELEMENT confsponsor (#PCDATA | addressbook)* >

<!--
book subtitle
-->
<!ELEMENT subtitle (#PCDATA) >

<!--
edition statement
-->
<!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 | linel)* >

<!--
cited document line, first
-->
<!ELEMENT linef (#PCDATA) >

<!--
cited document line, last
-->
<!ELEMENT linel (#PCDATA) >

<!--
book number
-->
<!ELEMENT bookno (#PCDATA) >

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

<!--
Keyword; e.g., from a Thesaurus or class. scheme
-->
<!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="nciti" 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/1>]

```
<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@nrlc-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*)) >

<!--
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) >  
  
<!--  
iscellaneous 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) >  
  
<!--  
biological deposit citation (US EFS: biological-deposit) 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 = biod01, biod02, 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 >

<!--
information regarding the facility storing the biological deposit-->
<!ELEMENT depository (#PCDATA | address)* >

<!--
biological accession number: the identification assigned to the biological material
by
the depository
-->
<!ELEMENT bio-accno (#PCDATA) >

<!--
identifies the period of time during which the depository must be able to furnish
samples of the biological material.
-->
<!ELEMENT term (#PCDATA) >

<!--
Cross reference to any other element with an identifier (id)
-->
<!ELEMENT crossref (#PCDATA) >

<!ATTLIST crossref
      idref CDATA #REQUIRED >

<!--
image data image is used for any kind of image: art work, figures, complex work
units
(math, tables, chemistry), etc. Recommended: id = i01, i02, 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.-->
<!ELEMENT img EMPTY >

<!ATTLIST img
      id ID #IMPLIED
      he NMTOKEN #REQUIRED
      wi NMTOKEN #REQUIRED
      file CDATA #REQUIRED
      label CDATA #IMPLIED
      alt CDATA #IMPLIED
      img-content (drawing | photograph | character | dna | undefined)
"drawing"
      img-format (jpeg | tiff | jfif | st33 | st35) #REQUIRED >

<!--
Unordered Lists list-style may be empty for lists with no bullet or other symbol
default list-style is 'bullets' Recommended id = ulis01, ulis02, etc.
-->
<!ELEMENT ul (li+) >

<!ATTLIST ul
      id ID #IMPLIED
      list-style (bullet | dash | none) "bullet"
      compact (compact) #IMPLIED >

```

```

<!--
list item Recommended id = list01, list02, etc.
-->
<!ELEMENT li  (#PCDATA | b | i | u | sup | sub | smallcaps | br | patcit | nplcit |
               bio-deposit | crossref | img | dl | ul | ol | chemistry | maths)* >

<!ATTLIST li
           id ID      #IMPLIED >

<!--
ordered lists: for now the default will be recommended style first level - 1. 2. 3.
etc. For lists within lists - second level - a. b. c. third level - i. ii. iii.;
These
\are stylesheet issues but are recommended for consistency. Recommended id =
olis01,
olis02, etc.
-->
<!ELEMENT ol  (li+) >

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

<!--
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 = chem01, chem02, etc
-->
<!ELEMENT chemistry (img) >

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

<!--
MATHEMATICS This is image data or coded according to mathml, version 2 Recommended
id = math01, math02, etc.
-->
<!ELEMENT maths (img | math) >

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

<!--
a reference to a figure; e.g., "...as shown in <figref idref="f01">figure <b>1</b>
</figref>..."
-->
<!ELEMENT figref (#PCDATA | b | i | u | sup | sub | smallcaps)* >

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

<!--
TABLES This is image data or coded according to OASIS Exchange model with modified
cell 'entry' content Recommended id = tabl01, tabl02, etc.
-->
<!ELEMENT tables (img | table) >

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

<!--
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 >

<!--
Stylesheet generates: <b>Abstract Drawing</b><br/>

The figure of the drawing(s) to be published with the abstract is:

then value within <srep-figno>, if present, followed by text of attribute value
-->
<!ELEMENT srep-figure-to-publish (figure-to-publish?) >

<!ATTLIST srep-figure-to-publish
    figinfo (none | changed-by-office | chosen-by-office |
            chosen-by-applicant) "chosen-by-applicant" >

<!--
figure of the drawings which should accompany the abstract
-->
<!ELEMENT figure-to-publish (fig-number+) >

<!--
figure (number) to be used as the Abstract Figure for
the Search Report
-->
<!ELEMENT fig-number (#PCDATA) >

<!ELEMENT search-report-for-pub (doc-page+ | (classification-ipc?,
        classification-national?,srep-fields-searched,srep-citations,
        srep-claims-info?,srep-unity-of-invention?,srep-admin?)) >

<!--
SECTION III OF DTD
The actual search report - start a new page

The Heading is:

<B>INTERNATIONAL SEARCH REPORT (ISR) - PART 2 </B >
<HR/>
Repeat int. application number (?)
IPC, FIELDS & DATABASES SEARCHED
CLASSIFICATION OF SUBJECT MATTER
-->
<!ELEMENT classification-ipc (edition,main-classification,further-classification*,
        (additional-info | linked-indexing-code-group |
        unlinked-indexing-code)*,text?) >

<!ELEMENT main-classification (#PCDATA) >

<!ELEMENT further-classification (#PCDATA) >

<!ELEMENT additional-info (#PCDATA) >

<!ELEMENT linked-indexing-code-group (main-linked-indexing-code,
        sub-linked-indexing-code+) >

<!ELEMENT main-linked-indexing-code (#PCDATA) >

<!ELEMENT sub-linked-indexing-code (#PCDATA) >

<!ELEMENT unlinked-indexing-code (#PCDATA) >

<!ELEMENT classification-national (country,edition?,main-classification,
        further-classification*,(additional-info |
        linked-indexing-code-group | unlinked-indexing-code)*,text?) >
```

```
<!--
FIELDS SEARCHED (old B. box)
-->
<!ELEMENT srep-fields-searched (minimum-documentation,other-documentation*,
    database-searched?) >

<!--
minimum documentation searched
-->
<!ELEMENT minimum-documentation (classification-ipc,classification-national?) >

<!--
Documentation searched other than minimum documentation
-->
<!ELEMENT other-documentation (#PCDATA) >

<!--
Database(s) searched
-->
<!ELEMENT database-searched (nplcit) >

<!--
CITATIONS GROUP
Stylesheet:
<center><hr>
<b>DOCUMENTS CONSIDERED TO BE RELEVANT</b><br></center>
(Citation, any relevant passage (*), followed by category
and claim number(s))<p>
-->
<!ELEMENT srep-citations (text | citation+) >

<!--
reference to other documents, either patent literature (patcit)
or non-patent literature (nplcit)

recommended id = 'cit01', 'cit02', etc.
-->
<!ELEMENT citation (patcit | (nplcit,rel-passage*) | text)* >

<!--
INFO. REGARDING CLAIMS (Old Box I data)
-->
<!ELEMENT srep-claims-info (reason-1?,reason-2?,reason-3?) >

<!--
Stylesheet generates:

<b>Certain claims were found unsearchable</b><p>

This ISR has not been established in respect of certain
claims under Article 17(2)(a) for the following reasons:

followed by one of the following three remarks:

Claims number(s): <claim-no>
because they relate to subject matter not required to
be searched by this ISA, namely: <claim-remark>
-->
<!ELEMENT reason-1 (claim-no+,claim-remark) >

<!--
Claim numbers
-->
<!ELEMENT claim-no (#PCDATA) >

<!--
Remarks on these claims
-->
```

```
<!ELEMENT claim-remark (#PCDATA) >

<!--Claims number(s): <claim-no>
because they relate to parts of the international application
that do not comply with the prescribed requirements to such
an extent that no meaningful international search can be
carried out, specifically: <claim-remark>
-->
<!ELEMENT reason-2 (claim-no+,claim-remark) >

<!--
Claim number(s): <claim-no>
because they are dependent claims and are not drafted in
accordance with the second and third sentences of PCT Rule 6.4(a)
-->
<!ELEMENT reason-3 (claim-no+,claim-remark?) >

<!--
OBSERVATIONS ON UNITY OF INVENTION (PCT)
(Old Box II data)
If present stylesheet generates:

<B> Unity of invention is lacking </B><p>

This ISA found multiple inventions in this international
application, as follows: <br/>
-->
<!ELEMENT srep-unity-of-invention (p,srep-search-fees,search-fee-protest?) >

<!--
SEARCH FEE DATA (Article 17(3) (Old Box II data)
-->
<!ELEMENT srep-search-fees (srep-fee-1?,srep-fee-2?,srep-fee-3?,srep-fee-4?) >

<!--
If present stylesheet generates (one of):

As all required additional search fees were timely paid
by the applicant, this ISR covers all searchable claims.
-->
<!ELEMENT srep-fee-1 EMPTY >

<!--
If present stylesheet generates:
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 >

<!--
If present stylesheet generates:

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-no+) >

<!--
If present stylesheet generates:

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-no+) >
```

```
<!--
Remark on protest
If present stylesheet generates:
no = No protest accompanied the payment of additional search fees
yes = The additional search fees were accompanied by the
applicant's protest.

For 2 - do we need to link this somehow?
-->
<!ELEMENT search-fee-protest EMPTY >

<!--
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?,completion-date,date-of-mailing?) >

<!--
Also used for "authorized officer" in international search reports.
-->
<!ELEMENT examiners (primary-examiner?,assistant-examiner?,authorized-officer?) >

<!ELEMENT primary-examiner (((name | (prefix?,last-name,first-name,middle-name?,
suffix?,iid?,role?,orgname?,department?,synonym*)),
registered-number?),electronic-signature?) >

<!ELEMENT assistant-examiner (((name | (prefix?,last-name,first-name,middle-name?,
suffix?,iid?,role?,orgname?,department?,synonym*)),
registered-number?),electronic-signature?) >

<!--
International Search Authority; international search to be carried out by
-->
<!ELEMENT srep-office (addressbook) >

<!-->
<!ELEMENT completion-date (date) >

<!--
This is the old 210 (patent family annex)
Patent family information according to WIPO ST.14
-->
<!ELEMENT srep-patent-family (doc-page+ | (text?,patent-family+)) >

<!--
patent family member
-->
<!ELEMENT patent-family (priority-application,family-member+) >

<!ATTLIST patent-family
        id ID #IMPLIED >

<!ELEMENT priority-application (document-id) >

<!ELEMENT family-member (document-id) >

<!--
```

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, eg. in drawings

Recommended id = docp01, docp02, etc.

-->

<!ELEMENT doc-page EMPTY >

<!ATTLIST doc-page

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

5.10 Ex-officio correction

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
*****
*   ex-officio-correction v0.1      2002 October      *
*****
*   PUBLIC "-//WIPO//DTD EX OFFICIO CORRCTION 1.0//EN" *
*                                     "ex-officio-correction.dtd" *
*****
*   http://pcteasy.wipo.int/efiling_standards/schemaDocs/ *
*                                     ex-officio-correction.dtd *
*****
*   contacts: *
*   WIPO: Shiro Ankyu; shiro.ankyu@wipo.int *
*   WIPO: John Dunning; john.dunning@wipo.int *
*****

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)
                        #REQUIRED
            ro            CDATA      #REQUIRED >

<!--
application reference information: application number, country
-->
<!ELEMENT application-reference (document-id) >

<!ATTLIST application-reference
            appl-type CDATA      #REQUIRED >

<!ELEMENT correction-note (original-content,corrected-content,action) >

<!ATTLIST correction-note
            location-xpath CDATA      #IMPLIED
            sequence       CDATA      #REQUIRED >

<!--
Authorized Officer.
-->
<!ELEMENT authorized-officer (((name | (prefix?,last-name,first-name,middle-name?,
                                suffix?,iid?,role?,orgname?,department?,synonym*)),registered-
                                number?),
                                electronic-signature?) >

<!--
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 >

<!ELEMENT original-content (#PCDATA) >

<!ELEMENT corrected-content (#PCDATA) >

<!ELEMENT action EMPTY >
```

```
<!--
  type-action (delete | add | replace)  #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) >

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

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

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

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

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

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

<!--
individual id
-->
<!-- ELEMENT iid (#PCDATA) >

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

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

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

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

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

```
<!--  
a signature represented by electronic means  
-->  
<!ELEMENT electronic-signature (basic-signature | enhanced-signature) >  
  
<!ATTLIST electronic-signature  
    date CDATA #REQUIRED  
    place-signed CDATA #IMPLIED >  
  
<!--  
Country: use ST.3 country code, e.g. DE, FR, GB, NL, etc.  
Also includes EP, W0  
-->  
<!ELEMENT country (#PCDATA) >  
  
<!--  
the number of the referenced patent (or application) document  
-->  
<!ELEMENT doc-number (#PCDATA) >  
  
<!--  
document kind code; e.g. A1  
-->  
<!ELEMENT kind (#PCDATA) >  
  
<!--  
date: components of a date. Format: YYYYMMDD  
-->  
<!ELEMENT date (#PCDATA) >  
  
<!--  
a non-PKI electronic signature  
-->  
<!ELEMENT basic-signature (fax-image | text-string | click-wrap) >  
  
<!--  
A PKI / PKCS #7 digital signature data type  
-->  
<!ELEMENT enhanced-signature (pkcs7) >  
  
<!--  
a TIFF image of a signature  
-->  
<!ELEMENT fax-image EMPTY >  
  
<!ATTLIST fax-image  
    file CDATA #REQUIRED >  
  
<!--  
a simple text string is to be used as the basic electronic  
signature, e.g., John Doe &lt;text-string&gt;/jd/&lt;/text-string&gt;  
-->  
<!ELEMENT text-string (#PCDATA) >  
  
<!--  
simple 'signature', e.g., clicking a button  
labeled 'accept' or 'I agree'  
-->  
<!ELEMENT click-wrap EMPTY >  
  
<!--  
PKCS7 digital signature  
-->  
<!ELEMENT pkcs7 EMPTY >
```

[Annex 2 follows/
L'annexe 2 suit]

November 25, 2002

Madam,
Sir,

Proposed modifications of the Administrative Instructions under the PCT

Standard for the electronic filing and processing of international applications: Proposals for change (files PCT/EF/PFC 02/009 to 013)

1. This circular concerns proposals for change to the standard for the electronic filing and processing of international applications under the Patent Cooperation Treaty (PCT) which will, if adopted, result in modifications of Annex F of the Administrative Instructions under the PCT. It is being sent, for the purposes of consultation pursuant to Rule 89.2(b) of the Regulations under the PCT, to the national and regional patent Offices of, or acting for, all PCT Contracting States, including all receiving Offices, International Searching Authorities, International Preliminary Examining Authorities, and designated and elected Offices, and to interested intergovernmental organizations, as well as to certain non-governmental organizations representing users of the PCT system.

2. The International Bureau has received and prepared a number of proposals for change to the standard for the electronic filing and processing of international applications. Those proposals are available on WIPO's Web site, together with previous proposals for change, as annexes to the following proposal for change (PFC) files(see http://www.wipo.int/pct/efiling_standard/en):

- PCT/EF/PFC 02/009 “Electronic Packaging” (Annex F, sections 5 and 7) (proposal by the Korean Intellectual Property Office);
- PCT/EF/PFC 02/010 “Modifications of XML DTDs for the E-PCT Standard” (Annex F, Appendix I) (proposal by the European Patent Office, the United States Patent and Trademark Office and the Japan Patent Office);
- PCT/EF/PFC 02/011 “Modifications of XML DTDs for the E-PCT Standard” (Annex F, Appendix I) (proposal by the International Bureau);
- PCT/EF/PFC 02/012 “New XML DTDs for the E-PCT Standard” (Annex F, Appendix I) (proposal by the International Bureau);
- PCT/EF/PFC 02/013 “Paragraph Numbering” (Annex F, section 3.1.1.1.1) (proposal by the International Bureau).

3. The International Bureau would appreciate receiving any comments on the proposals by December 23, 2002. Comments should preferably be made by e-mail via the “Submit comments” facility on the Website, but may alternatively be made in writing by letter or by fax to +41 (22) 338 8040. Comments will be included as Annexes to the relevant PFC files. Copies of the proposals on paper are available from the International Bureau on request.

Inquiries concerning the proposals should be directed to Mr. Thiam Ming Song (e-mail: song@wipo.int; phone: 41 (22) 338 9640; fax: 41 (22) 338 8040).

4. In Circular C. PCT 884, dated November 25, 2002, the International Bureau notifies the promulgation, with effect from December 12, 2002, of a new section 2.5 "Change procedure" in Annex F dealing with special procedures for the proposal, consideration and implementation of future modifications of the standard for electronic filing and processing of international applications. It is intended that consideration of the proposals referred to in the present Circular will proceed independently of those new procedures.

5. The International Bureau intends to promulgate the present proposals for change, together with those set out in proposals for change files PCT/EF/PFC 02/002 to 02/013 (see Circular C. PCT 830 dated April 4, 2002), revised if necessary in the light of any comments received by December 23, 2002. It is envisaged that the modifications would be promulgated to enter into force on a date to be fixed in March 2003.

Sincerely yours,

Francis Gurry
Assistant Director General

OMPI CIRCULAIRE C. PCT 885

Le 25 novembre 2002

Madame,
Monsieur,

*Propositions de modification
de l'annexe F des instructions administratives selon le PCT*

*Norme concernant le dépôt et le traitement électroniques
des demandes internationales : Propositions de modification
(dossiers PCT/EF/PFC/02/009 à 013)*

1. La présente circulaire concerne des propositions de modification de la norme concernant le dépôt et le traitement des demandes internationales selon le Traité de coopération en matière de brevets (PCT) qui, si elles étaient adoptées, aboutiraient à la modification de l'annexe F des instructions administratives du PCT. Elle est adressée, aux fins de la consultation prévue à la règle 89.2.b) du règlement d'exécution du PCT, aux offices de brevets nationaux et régionaux de tous les États contractants du PCT ou agissant pour eux, notamment l'ensemble des offices récepteurs, des administrations chargées de la recherche internationale, des administrations chargées de l'examen préliminaire international et des offices désignés et élus, ainsi qu'aux organisations intergouvernementales intéressées et à certaines organisations non gouvernementales représentant les utilisateurs du système du PCT.

2. Le Bureau international a reçu et préparé un certain nombre de propositions de modification de la norme concernant le dépôt et le traitement électroniques des demandes internationales. Ces propositions peuvent être consultées sur le site Web de l'OMPI en tant qu'annexes des dossiers de propositions de modification suivants, conjointement aux propositions de modification précédentes (voir http://www.wipo.int/pct/efiling_standard/fr) :

- PCT/EF/PFC 02/009 “Empaquetage électronique” (sections 5 et 7 de l'annexe F) (proposition de l'Office coréen de la propriété intellectuelle);
- PCT/EF/PFC 02/010 “Modification des DTD selon le XML pour la norme E-PCT” (appendice I de l'annexe F) (proposition de l'Office européen des brevets, de l'Office des brevets et des marques des États Unis d'Amérique et de l'Office des brevets du Japon);
- PCT/EF/PFC 02/011 “Modification des DTD selon le XML pour la norme E-PCT” (appendice I de l'annexe F) (proposition du Bureau international);
- PCT/EF/PFC 02/012 “Nouvelles DTD selon le XML pour la norme E-PCT” (appendice I de l'annexe F) (proposition du Bureau international);
- PCT/EF/PFC 02/013 “Numérotation des paragraphes” (section 3.1.1.1.1 de l'annexe F) (proposition du Bureau international).

3. Le Bureau international souhaiterait recevoir tout commentaire sur ces propositions le 23 décembre 2002 au plus tard. Les commentaires doivent de préférence être envoyés par courrier électronique grâce à la fonction “envoyer un commentaire” prévue sur le site Web, mais peuvent aussi être envoyés par courrier postal ou par télécopie (41-22-338 8040). Les commentaires éventuels seront inclus dans les annexes des différents dossiers de propositions de modification. Des copies de ces propositions sous forme imprimée sont disponibles auprès du Bureau international sur demande. Les demandes de renseignements concernant ces propositions sont à adresser à M. Thiam Ming Song (courrier électronique : song@wipo.int; téléphone : 41-22-338 9640; télécopie : 41-22-338 8040).

4. Dans la circulaire C. PCT 884, en date du 25 novembre 2002, le Bureau international notifie la promulgation, avec effet au 12 décembre 2002, d’une nouvelle section 2.5 de l’annexe F des instructions administratives du PCT, intitulée “Procédure de modification”, qui prévoit des procédures spéciales pour la proposition, l’examen et la mise en œuvre des futures modifications de la norme concernant le dépôt et le traitement électronique des demandes internationales. L’examen des propositions faisant l’objet de la présente circulaire n’est pas soumis à ces nouvelles procédures.

5. Le Bureau international a l’intention de promulguer les présentes propositions de modification, conjointement à celles qui figurent dans les dossiers PCT/EF/PFC 02/002 à 02/013 (voir la circulaire C. PCT 830 en date du 4 avril 2002), après les avoir révisées si nécessaire en fonction de tout commentaire jusqu’au 23 décembre 2002. Ces modifications seraient promulguées avec effet au mois de mars à une date qu’il reste à décider.

Veuillez agréer, Madame, Monsieur, l’assurance de ma considération distinguée.

Francis Gurry
Sous-directeur général

[Annex 3 follows/
L’annexe 3 suit]

PCT/EF/PFC 02/012

ANNEX 3/ANNEXE 3

COMMENTS BY THE EUROPEAN PATENT OFFICE, THE JAPAN PATENT OFFICE,
AND THE UNITED STATES PATENT AND TRADEMARK OFFICE
(THE TRILATERAL OFFICES)

The Trilateral Offices suggest that the International Bureau withdraw PCT/EF/PFC/02/012 and submit instead three PFCs for separate consideration, one for issues related to the Demand, one for publication, and one for ISR and IPER.

[Annex 4 follows/
L'annexe 4 suit]

PCT/EF/PFC 02/012

ANNEX 4/ANNEXE 4

COMMENTS BY THE INTERNATIONAL BUREAU

The International Bureau withdraws the following Sections for PCT/EF/PFC/02/012:

5.8 International Preliminary Examination Report

5.9 Search Report.

[End of Annex and of file/
Fin de l'annexe et du dossier]