

ST.37 ANNEX III –XSD

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<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:com="http://www.wipo.int/standards/XMLSchema/ST96/Common"
xmlns:pat="http://www.wipo.int/standards/XMLSchema/ST96/Patent"
targetNamespace="http://www.wipo.int/standards/XMLSchema/ST96/Patent" elementFormDefault="qualified"
attributeFormDefault="qualified">
  <xsd:import namespace="http://www.wipo.int/standards/XMLSchema/ST96/Common"
schemaLocation="Common_V3_1_Custom.xsd"/>
  <xsd:annotation>
    <xsd:documentation>As defined in WIPO ST.37 Authority File for patent documents, which
include patents for inventions, plant patents, design patents, inventors certificates, utility
certificates, utility models, patents of addition, inventors certificates of addition, utility
certificates of addition, and published applications therefor.</xsd:documentation>
  </xsd:annotation>
  <xsd:element name="AFLatestDocumentDate" type="com:DateType">
    <xsd:annotation>
      <xsd:documentation>Date of the most recently published document listed in this
authority file.</xsd:documentation>
    </xsd:annotation>
  </xsd:element>
  <xsd:element name="ApplicationFilingCategory" type="pat:ApplicationFilingCategoryType">
    <xsd:annotation>
      <xsd:documentation>Describes the filing type of application i.e. PCT, Regional or
National.</xsd:documentation>
    </xsd:annotation>
  </xsd:element>
  <xsd:simpleType name="ApplicationFilingCategoryType">
    <xsd:restriction base="xsd:token">
      <xsd:enumeration value="PCT">
        <xsd:annotation>
          <xsd:documentation>PCT</xsd:documentation>
        </xsd:annotation>
      </xsd:enumeration>
      <xsd:enumeration value="Regional">
        <xsd:annotation>
          <xsd:documentation>Regional</xsd:documentation>
        </xsd:annotation>
      </xsd:enumeration>
      <xsd:enumeration value="National">
        <xsd:annotation>
          <xsd:documentation>National</xsd:documentation>
        </xsd:annotation>
      </xsd:enumeration>
    </xsd:restriction>
  </xsd:simpleType>
  <xsd:element name="ApplicationIdentification" type="pat:ApplicationIdentificationType">
    <xsd:annotation>
      <xsd:documentation>Provides the information necessary to identify a particular
patent application. Refers to ST.9 INID Code 20.</xsd:documentation>
    </xsd:annotation>
  </xsd:element>
  <xsd:complexType name="ApplicationIdentificationType">
    <xsd:sequence>
      <xsd:element ref="com:IPOfficeCode"/>
      <xsd:element ref="com:ApplicationNumber"/>
      <xsd:element ref="com:ApplicantFileReference" minOccurs="0"/>
      <xsd:element ref="com:FilingLanguageCode" minOccurs="0"/>
      <xsd:element ref="pat:ApplicationFilingCategory" minOccurs="0"/>
      <xsd:element ref="pat:InventionSubjectMatterCategory" minOccurs="0"/>
      <xsd:element ref="pat:FilingDate" minOccurs="0"/>
    </xsd:sequence>
    <xsd:attribute ref="com:id"/>
  </xsd:complexType>
  <xsd:element name="AttachedPriorityDocumentIndicator" type="xsd:boolean" fixed="true">
    <xsd:annotation>

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        <xsd:documentation>A Boolean which indicates whether the priority document is
        attached to the application.</xsd:documentation>
    </xsd:annotation>
</xsd:element>
<xsd:element name="AuthorityFile" type="pat:AuthorityFileType">
    <xsd:annotation>
        <xsd:documentation>Root element for the authority file</xsd:documentation>
    </xsd:annotation>
</xsd:element>
<xsd:element name="AuthorityFileDataCoverage" type="pat:AuthorityFileDataCoverageType">
    <xsd:annotation>
        <xsd:documentation>List of patent documents published by industrial property
        offices grouped according to their ST.16 kind-of-document codes for a given date
        range.</xsd:documentation>
    </xsd:annotation>
</xsd:element>
<xsd:complexType name="AuthorityFileDataCoverageType">
    <xsd:sequence>
        <xsd:element ref="pat:PublicationDateRange"/>
        <xsd:element ref="pat:PublicationNumberRange" minOccurs="0"/>
        <xsd:element ref="pat:KindCodeCoverage" minOccurs="0"/>
        <xsd:element ref="pat:ExceptionCodeCoverage" minOccurs="0"/>
        <xsd:element ref="pat:DataCoverageURI" minOccurs="0"/>
    </xsd:sequence>
</xsd:complexType>
<xsd:element name="AuthorityFileDefinition" type="pat:AuthorityFileDefinitionType">
    <xsd:annotation>
        <xsd:documentation>Provide definition file information relating to this
        associated authority file, including file coverage.</xsd:documentation>
    </xsd:annotation>
</xsd:element>
<xsd:complexType name="AuthorityFileDefinitionType">
    <xsd:choice maxOccurs="unbounded">
        <xsd:element ref="pat:ExceptionCodeList"/>
        <xsd:element ref="pat:PatentDocumentKindCodeList"/>
        <xsd:element ref="pat:MostRecentDocument"/>
        <xsd:element ref="pat:AuthorityFileDataCoverage"/>
        <xsd:element ref="com:CommentText"/>
        <xsd:element ref="com:DocumentLocationURI"/>
    </xsd:choice>
    <xsd:attribute ref="com:id"/>
    <xsd:attribute ref="pat:groupedAFIndicator" use="required"/>
    <xsd:attribute ref="pat:groupAFCategory"/>
    <xsd:attribute ref="pat:updateAFCategory" use="required"/>
</xsd:complexType>
<xsd:element name="AuthorityFileEntry" type="pat:AuthorityFileEntryType">
    <xsd:annotation>
        <xsd:documentation>An authority file entry consists of data required to uniquely
        identify a patent publication according to WIPO ST.37.</xsd:documentation>
    </xsd:annotation>
</xsd:element>
<xsd:complexType name="AuthorityFileEntryType">
    <xsd:sequence>
        <xsd:element ref="pat:PatentPublicationIdentification"/>
        <xsd:element ref="pat:ExceptionCode" minOccurs="0"/>
        <xsd:element ref="pat:ApplicationIdentification" minOccurs="0"/>
        <xsd:element ref="pat:PriorityApplicationIdentificationBag" minOccurs="0"/>
    </xsd:sequence>
    <xsd:attribute ref="com:id"/>
</xsd:complexType>
<xsd:complexType name="AuthorityFileType">
    <xsd:sequence>
        <xsd:element ref="pat:AuthorityFileDefinition" minOccurs="0"/>
        <xsd:element ref="pat:AuthorityFileEntry" maxOccurs="unbounded"/>
    </xsd:sequence>
    <xsd:attribute ref="com:officeCode" use="required"/>
    <xsd:attribute ref="com:creationDate"/>
</xsd:complexType>
<xsd:attribute name="updateAFCategory" type="pat:UpdateCategoryType">

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        <xsd:annotation>
            <xsd:documentation>Determines how updates to the authority file will be performed
e.g., incremental versus full.</xsd:documentation>
        </xsd:annotation>
    </xsd:attribute>
    <xsd:simpleType name="UpdateCategoryType">
        <xsd:restriction base="xsd:token">
            <xsd:enumeration value="full">
                <xsd:annotation>
                    <xsd:documentation>A complete new authority file is provided at each
update period.</xsd:documentation>
                </xsd:annotation>
            </xsd:enumeration>
            <xsd:enumeration value="incremental">
                <xsd:annotation>
                    <xsd:documentation>Only the new authority file entries published
since the last update period are provided.</xsd:documentation>
                </xsd:annotation>
            </xsd:enumeration>
            <xsd:enumeration value="differential">
                <xsd:annotation>
                    <xsd:documentation>Only the records which have changed or are
required to be updated since the last update period are provided.</xsd:documentation>
                </xsd:annotation>
            </xsd:enumeration>
        </xsd:restriction>
    </xsd:simpleType>
    <xsd:element name="BeginRangeNumber" type="xsd:string">
        <xsd:annotation>
            <xsd:documentation>First number in the range. </xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:attribute name="groupedAFIndicator" type="xsd:boolean">
        <xsd:annotation>
            <xsd:documentation>Indicates that the authority file has been grouped, or not,
according to one of the defined categories.</xsd:documentation>
        </xsd:annotation>
    </xsd:attribute>
    <xsd:element name="DataCoverageURI" type="xsd:anyURI">
        <xsd:annotation>
            <xsd:documentation>URI where a detailed description of the data coverage of the
authority file is available. </xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="DocumentTotalQuantity" type="xsd:nonNegativeInteger">
        <xsd:annotation>
            <xsd:documentation>Total number of documents according to a particular kind code.
</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="EndRangeNumber" type="xsd:string">
        <xsd:annotation>
            <xsd:documentation>Last number in the range. </xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="ExceptionCode" type="pat:ExceptionCodeType">
        <xsd:annotation>
            <xsd:documentation>Exception code as indicated in WIPO ST.37</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="ExceptionCodeCoverage" type="pat:ExceptionCodeCoverageType">
        <xsd:annotation>
            <xsd:documentation>Data coverage summary by exception code including total
quantity of documents.</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:complexType name="ExceptionCodeCoverageType">
        <xsd:sequence maxOccurs="unbounded">
            <xsd:element ref="pat:ExceptionCode"/>

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        <xsd:element ref="pat:DocumentTotalQuantity"/>
      </xsd:sequence>
    </xsd:complexType>
    <xsd:element name="ExceptionCodeDefinition" type="pat:ExceptionCodeDefinitionType">
      <xsd:annotation>
        <xsd:documentation>A set of Exception codes, particularly the codes N, W and X,
and their descriptions as defined by the IP Office, which are different from definitions in WIPO
ST.37.</xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <xsd:complexType name="ExceptionCodeDefinitionType">
      <xsd:sequence>
        <xsd:element ref="pat:ExceptionCode"/>
        <xsd:element ref="pat:ExceptionCodeDescriptionText"/>
      </xsd:sequence>
    </xsd:complexType>
    <xsd:element name="ExceptionCodeDescriptionText" type="xsd:string">
      <xsd:annotation>
        <xsd:documentation>A different or specific description of an exception code,
which an IP Office uses in their authority file.</xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="ExceptionCodeList" type="pat:ExceptionCodeListType">
      <xsd:annotation>
        <xsd:documentation>List of exception codes that have a different or specific
definition in use by the IP Office rather than the definitions of exception codes defined in WIPO
ST.37.</xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <xsd:complexType name="ExceptionCodeListType">
      <xsd:sequence maxOccurs="unbounded">
        <xsd:element ref="pat:ExceptionCodeDefinition"/>
      </xsd:sequence>
    </xsd:complexType>
    <xsd:simpleType name="ExceptionCodeType">
      <xsd:restriction base="xsd:token">
        <xsd:enumeration value="C">
          <xsd:annotation>
            <xsd:documentation>Defective publication documents
</xsd:documentation>
          </xsd:annotation>
        </xsd:enumeration>
        <xsd:enumeration value="D">
          <xsd:annotation>
            <xsd:documentation>The document was deleted after the
publication</xsd:documentation>
          </xsd:annotation>
        </xsd:enumeration>
        <xsd:enumeration value="E">
          <xsd:annotation>
            <xsd:documentation>Publication number allocated by the IPO
representing a PCT national/regional phase entry (for example Euro-PCT). No corresponding document
published. A Euro-PCT application is an international (PCT) patent application that entered the
European regional phase.
</xsd:documentation>
          </xsd:annotation>
        </xsd:enumeration>
        <xsd:enumeration value="M">
          <xsd:annotation>
            <xsd:documentation>Published document is missing</xsd:documentation>
          </xsd:annotation>
        </xsd:enumeration>
        <xsd:enumeration value="N">
          <xsd:annotation>
            <xsd:documentation>The use of code 'N' must be described in the IP
Office's Authority Definition File.</xsd:documentation>
          </xsd:annotation>
        </xsd:enumeration>
        <xsd:enumeration value="P">

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        <xsd:annotation>
            <xsd:documentation>Document available only on
paper</xsd:documentation>
        </xsd:annotation>
    </xsd:enumeration>
    <xsd:enumeration value="R">
        <xsd:annotation>
            <xsd:documentation>Reissued publication</xsd:documentation>
        </xsd:annotation>
    </xsd:enumeration>
    <xsd:enumeration value="U">
        <xsd:annotation>
            <xsd:documentation>Unknown publication number, for example, when
during compilation of the authority file one or a list of publication number(s) has been found in
the database, but the corresponding document(s) is(are) missing without known cause. Typically this
code can indicate could be a database error that requires further analysis.</xsd:documentation>
        </xsd:annotation>
    </xsd:enumeration>
    <xsd:enumeration value="W">
        <xsd:annotation>
            <xsd:documentation>The use of code 'W' must be described in the IP
Office's Authority Definition File.</xsd:documentation>
        </xsd:annotation>
    </xsd:enumeration>
    <xsd:enumeration value="X">
        <xsd:annotation>
            <xsd:documentation>The use of code 'X' must be described in the IP
Office's Authority Definition File.</xsd:documentation>
        </xsd:annotation>
    </xsd:enumeration>
</xsd:restriction>
</xsd:simpleType>
<xsd:element name="FilingDate" type="com:DateType">
    <xsd:annotation>
        <xsd:documentation>The date assigned by the Patent Office that identifies when an
application meets certain criteria to qualify as having been filed. Refers to ST.9 INID Code
22.</xsd:documentation>
    </xsd:annotation>
</xsd:element>
<xsd:attribute name="groupAFCategory" type="pat:GroupCategoryType">
    <xsd:annotation>
        <xsd:documentation>Identifies how the authority files has been grouped i.e., by
date, publication-level or document-kind code.</xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:simpleType name="GroupCategoryType">
    <xsd:restriction base="xsd:token">
        <xsd:enumeration value="date">
            <xsd:annotation>
                <xsd:documentation>Date</xsd:documentation>
            </xsd:annotation>
        </xsd:enumeration>
        <xsd:enumeration value="publication-level">
            <xsd:annotation>
                <xsd:documentation>Publication level</xsd:documentation>
            </xsd:annotation>
        </xsd:enumeration>
        <xsd:enumeration value="document-kind">
            <xsd:annotation>
                <xsd:documentation>Document kind</xsd:documentation>
            </xsd:annotation>
        </xsd:enumeration>
    </xsd:restriction>
</xsd:simpleType>
<xsd:element name="IncorporationByReferenceIndicator" type="xsd:boolean" fixed="true">
    <xsd:annotation>
        <xsd:documentation>A Boolean which indicates whether an element or part is
incorporated by reference in the (international) application</xsd:documentation>
    </xsd:annotation>

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</xsd:element>
<xsd:element name="IndicatedIPOfficeCode" type="com:ExtendedWIPOST3CodeType">
  <xsd:annotation>
    <xsd:documentation>Where the earlier application is a regional or international
application, an ST.3 code identifying a country party to the Paris Convention or a member of the WTO
for which the regional or international application was made and which is indicated in the priority
claim. Refers to ST.9 INID Code 34.</xsd:documentation>
  </xsd:annotation>
</xsd:element>
<xsd:element name="InventionSubjectMatterCategory"
type="pat:InventionSubjectMatterCategoryType">
  <xsd:annotation>
    <xsd:documentation>Describes the type of invention captured by the published
patent i.e. Design, Utility or Plant</xsd:documentation>
  </xsd:annotation>
</xsd:element>
<xsd:simpleType name="InventionSubjectMatterCategoryType">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Design">
      <xsd:annotation>
        <xsd:documentation>Design</xsd:documentation>
      </xsd:annotation>
    </xsd:enumeration>
    <xsd:enumeration value="Utility">
      <xsd:annotation>
        <xsd:documentation>Utility</xsd:documentation>
      </xsd:annotation>
    </xsd:enumeration>
    <xsd:enumeration value="Plant">
      <xsd:annotation>
        <xsd:documentation>Plant</xsd:documentation>
      </xsd:annotation>
    </xsd:enumeration>
  </xsd:restriction>
</xsd:simpleType>
<xsd:element name="KindCodeCoverage" type="pat:KindCodeCoverageType">
  <xsd:annotation>
    <xsd:documentation>Data coverage summary by kind code including document total
quantity.</xsd:documentation>
  </xsd:annotation>
</xsd:element>
<xsd:complexType name="KindCodeCoverageType">
  <xsd:sequence maxOccurs="unbounded">
    <xsd:element ref="com:PatentDocumentKindCode"/>
    <xsd:element ref="pat:DocumentTotalQuantity"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:attribute name="libraryIdentifier" type="xsd:token">
  <xsd:annotation>
    <xsd:documentation>The library-identifier attribute is intended as an identifying
code for the library containing priority documents - to be used where offices support the access of
the documents from many such libraries. The recommended format of library-identifier should be
composed of a WIPO Standard ST.3 code of the operating Office of service or digital library,
together with service (or digital library) name (optional) separated by a hyphen to allow for the
fact that some Office may operate more than one library. For example, "IB-DAS" for Digital Access
Service for Priority Documents run by WIPO.</xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:element name="MostRecentDocument" type="pat:MostRecentDocumentType">
  <xsd:annotation>
    <xsd:documentation>Provide the publication number and associated date for the
latest patent document included within the authority file.</xsd:documentation>
  </xsd:annotation>
</xsd:element>
<xsd:complexType name="MostRecentDocumentType">
  <xsd:sequence>
    <xsd:element ref="pat:PublicationNumber"/>
    <xsd:element ref="com:PublicationDate"/>
  </xsd:sequence>

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        <xsd:attribute ref="com:id"/>
    </xsd:complexType>
    <xsd:element name="OnlineAvailablePriorityDocumentIndicator"
type="pat:OnlineAvailablePriorityDocumentIndicatorType">
        <xsd:annotation>
            <xsd:documentation>Where the priority document is made available to the
corresponding IPO (e.g., RO or the IB) from a digital library, this indicator provides a reference
to obtain the priority document from such digital library</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:complexType name="OnlineAvailablePriorityDocumentIndicatorType">
        <xsd:simpleContent>
            <xsd:extension base="pat:TrueType">
                <xsd:attribute ref="pat:libraryIdentifier"/>
                <xsd:attribute ref="com:officeCode"/>
            </xsd:extension>
        </xsd:simpleContent>
    </xsd:complexType>
    <xsd:element name="PatentDocumentKindCodeDefinition"
type="pat:PatentDocumentKindCodeDefinitionType">
        <xsd:annotation>
            <xsd:documentation>An element within the PatentDocumentKindCodeList. Includes
both the document kind code and associated definition.</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:complexType name="PatentDocumentKindCodeDefinitionType">
        <xsd:sequence>
            <xsd:element ref="com:PatentDocumentKindCode"/>
            <xsd:element ref="pat:PatentDocumentKindCodeDescriptionText"/>
        </xsd:sequence>
    </xsd:complexType>
    <xsd:element name="PatentDocumentKindCodeDescriptionText" type="xsd:string">
        <xsd:annotation>
            <xsd:documentation>A description of the patent document kind code used by a
particular IPO.</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="PatentDocumentKindCodeList" type="pat:PatentDocumentKindCodeListType">
        <xsd:annotation>
            <xsd:documentation>A list of specific document kind codes used by an IPO. Use of
WIPO ST.16 is recommended.</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:complexType name="PatentDocumentKindCodeListType">
        <xsd:sequence maxOccurs="unbounded">
            <xsd:element ref="pat:PatentDocumentKindCodeDefinition"/>
        </xsd:sequence>
    </xsd:complexType>
    <xsd:element name="PatentPublicationIdentification"
type="pat:PatentPublicationIdentificationType">
        <xsd:annotation>
            <xsd:documentation>Details identifying a particular published patent document, as
part of an authority file entry. Refers to ST.9 INID Code 10.</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:complexType name="PatentPublicationIdentificationType">
        <xsd:sequence>
            <xsd:element ref="com:IPOOfficeCode"/>
            <xsd:element ref="pat:PublicationNumber"/>
            <xsd:element ref="com:PublicationLanguageCode" minOccurs="0"/>
            <xsd:element ref="com:PatentDocumentKindCode" minOccurs="0"/>
            <xsd:element ref="com:PublicationDate" minOccurs="0"/>
        </xsd:sequence>
        <xsd:attribute ref="com:id"/>
    </xsd:complexType>
    <xsd:element name="PriorityApplicationIdentification"
type="pat:PriorityApplicationIdentificationType">
        <xsd:annotation>

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        <xsd:documentation>Details of the priority application which is associated with
the particular authority file entry.</xsd:documentation>
    </xsd:annotation>
</xsd:element>
<xsd:element name="PriorityApplicationIdentificationBag"
type="pat:PriorityApplicationIdentificationBagType">
    <xsd:annotation>
        <xsd:documentation>A list of priority applications which are used to claim
priority. Refers to ST.9 INID Code 30.</xsd:documentation>
    </xsd:annotation>
</xsd:element>
<xsd:complexType name="PriorityApplicationIdentificationBagType">
    <xsd:sequence>
        <xsd:element ref="pat:PriorityApplicationIdentification" maxOccurs="unbounded"/>
        <xsd:element ref="pat:IncorporationByReferenceIndicator" minOccurs="0"/>
    </xsd:sequence>
    <xsd:attribute ref="com:id"/>
</xsd:complexType>
<xsd:complexType name="PriorityApplicationIdentificationType">
    <xsd:sequence>
        <xsd:element ref="com:IPOfficeCode"/>
        <xsd:element ref="com:ApplicationNumber" minOccurs="0"/>
        <xsd:element ref="com:PatentDocumentKindCode" minOccurs="0"/>
        <xsd:element ref="pat:FilingDate"/>
        <xsd:element ref="pat:IndicatedIPOfficeCode" minOccurs="0"
maxOccurs="unbounded"/>
        <xsd:element ref="pat:ApplicationFilingCategory" minOccurs="0"/>
        <xsd:choice minOccurs="0">
            <xsd:element ref="pat:RequestedPriorityDocumentIndicator"/>
            <xsd:element ref="pat:AttachedPriorityDocumentIndicator"/>
            <xsd:element ref="pat:OnlineAvailablePriorityDocumentIndicator"/>
            <xsd:element ref="com:DASAccessCode"/>
        </xsd:choice>
    </xsd:sequence>
    <xsd:attribute ref="com:id"/>
    <xsd:attribute ref="com:sequenceNumber" use="required"/>
</xsd:complexType>
<xsd:element name="PublicationDateRange" type="pat:PublicationDateRangeType">
    <xsd:annotation>
        <xsd:documentation>Publication date range over which the authority file is valid.
    </xsd:documentation>
    </xsd:annotation>
</xsd:element>
<xsd:complexType name="PublicationDateRangeType">
    <xsd:sequence>
        <xsd:element ref="com:StartDate"/>
        <xsd:element ref="com:EndDate"/>
    </xsd:sequence>
</xsd:complexType>
<xsd:element name="PublicationNumber" type="xsd:string">
    <xsd:annotation>
        <xsd:documentation>Publication Number. </xsd:documentation>
    </xsd:annotation>
</xsd:element>
<xsd:element name="PublicationNumberRange" type="pat:PublicationNumberRangeType">
    <xsd:annotation>
        <xsd:documentation>A range of patent publication numbers which are included
within this authority file.</xsd:documentation>
    </xsd:annotation>
</xsd:element>
<xsd:complexType name="PublicationNumberRangeType">
    <xsd:sequence>
        <xsd:element ref="pat:BeginRangeNumber"/>
        <xsd:element ref="pat:EndRangeNumber"/>
    </xsd:sequence>
</xsd:complexType>
<xsd:element name="RequestedPriorityDocumentIndicator" type="xsd:boolean" fixed="true">
    <xsd:annotation>

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        <xsd:documentation>The receiving office is requested to prepare and transmit to
the IB a certified copy of the earlier application.</xsd:documentation>
    </xsd:annotation>
</xsd:element>
<xsd:simpleType name="TrueType">
    <xsd:restriction base="xsd:boolean">
        <xsd:pattern value="true"/>
    </xsd:restriction>
</xsd:simpleType>
</xsd:schema>
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ST.37 空 空 空 - DTD

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

<!--Annex IV of WIPO Standard ST.37, XML Data Type Definition (DTD) for Authority Files

This entity may be identified by the PUBLIC identifier:
*****
PUBLIC "-//WIPO//XSD AUTHORITY FILE 1.2//EN" "AuthorityFile_V1_2.dtd"
*****

*****
* Date draft created: 2018-09-19

* Annex IV was adopted by the Committee on WIPO Standards (CWS) at its sixth session on October 19,
2018.
*****

* 2019-07-05: Revision approved at the seventh session of the CWS 2019-07-05:
* (i) group-category renamed grouped-af-indicator and is now a list of Boolean values 'yes' and 'no'
* (ii) backup-category renamed update-af-category
* (iii) additional-comment renamed comment-text
*
*****

* PUBLIC DTD URL

* http://www.wipo.int/standards/DTD/AuthorityFile_V1_2.dtd

*****

*****
* CONTACTS: xml.standards@wipo.int
*****

-->
<!ELEMENT authority-file (authority-file-definition? , authority-file-entry+)>

<!ATTLIST authority-file country CDATA #REQUIRED
                        date-produced CDATA #REQUIRED >
<!ELEMENT authority-file-definition (exception-code-list | document-kind-code-list | most-recent-
document | data-coverage | comment-text | document-location-uri)+>

<!-- 1/07/2019 - Add CWS/7/17 for alignment with XSD <!ATTLIST authority-file-definition content-
category (complete | grouped ) #REQUIRED
                        group-category (date |
                                        publication-level |
                                        document-kind ) #IMPLIED
                        backup-category (full |
                                        incremental |
                                        differential ) #REQUIRED >-->

<!ATTLIST authority-file-definition grouped-af-indicator (yes | no ) #REQUIRED
                        group-af-category (date |
                                        publication-level |
                                        document-kind ) #IMPLIED
                        update-af-category (full |
                                        incremental |
                                        differential ) #REQUIRED >

<!ELEMENT document-location-uri (#PCDATA)>

<!ELEMENT exception-code-list (exception-code-definition)+>
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<!ELEMENT exception-code-definition (exception-code, exception-code-description)>
<!ELEMENT exception-code-description (#PCDATA)>
<!ELEMENT exception-code (#PCDATA)>
<!--
<!ATTLIST exception-code ( C |
                           D |
                           E |
                           M |
                           N |
                           P |
                           R |
                           U |
                           W |
                           X ) #IMPLIED >
--><!ELEMENT document-kind-code-list (document-kind-code-definition)+>
<!ELEMENT document-kind-code-definition (kind, document-kind-code-description)+>
<!ELEMENT document-kind-code-description (#PCDATA)>
<!ELEMENT most-recent-document EMPTY>
<!ATTLIST most-recent-document publication-number CDATA #REQUIRED
                                publication-date CDATA #REQUIRED >
<!ELEMENT data-coverage (publication-date-range? , publication-number-range? , kind-code-coverage? ,
exception-code-coverage? , data-coverage-uri?)>
<!ELEMENT publication-date-range EMPTY>
<!ATTLIST publication-date-range start-date CDATA #REQUIRED
                                end-date CDATA #REQUIRED >
<!ELEMENT publication-number-range EMPTY>
<!ATTLIST publication-number-range begin-range-number CDATA #REQUIRED
                                end-range-number CDATA #REQUIRED >
<!ELEMENT kind-code-coverage (kind, document-total-quantity)*>
<!ELEMENT document-total-quantity (#PCDATA)>
<!ELEMENT exception-code-coverage (exception-code, document-total-quantity)*>
<!ELEMENT data-coverage-uri (#PCDATA)>
<!ELEMENT authority-file-entry (publication-reference , exception-code? , application-reference? ,
priority-claims?)>
<!ELEMENT publication-reference (document-id)>
<!-- document-id tag as defined in ST.36 -->
<!ELEMENT document-id (country , doc-number , kind? , date?)>
<!--Two-letter alphabetic codes which represent the names of states, other entities
and intergovernmental organizations the legislation of which provides for the protection of
IP rights or which organizations are acting in the framework of a treaty in the field of IP. e.g.
"XX".
Always in upper case.-->
<!ELEMENT country (#PCDATA)>
<!--Doc-number: The number of the referenced patent (or application) document-->
<!ELEMENT doc-number (#PCDATA)>
<!--Document kind code; e.g., A1 (WIPO ST.16)-->
<!ELEMENT kind (#PCDATA)>
<!--Date: components of a date. Format: YYYYMMDD (WIPO ST.2)-->
<!ELEMENT date (#PCDATA)>

```

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<!--Publication exception code; single-alphabetic letter code to indicate the reason why the
complete published document, for which the corresponding number is assigned, is not available:
    C=Defective documents;
    D= Documents deleted after the publication;
    E=Publication number allocated by the IPO representing a PCT national/regional phase entry (for
example Euro-PCT). No corresponding document published. A Euro-PCT application is an international
(PCT) patent application that entered the European regional phase;
    M=Missing published documents;
    N=Not used publication number: e.g. publication numbers have been issued, but finally have not
been allocated to any publication;
    P=Document available on paper only;
    R=Reissued publications;
    U=Unknown publication numbers: e.g. when during compilation of the authority file certain
publication number(s) has been found in the database, but the corresponding document(s) is(are)
missing without known cause. Typically this code can indicate a database error that requires further
analysis;
    W=Applications (or patents) which were withdrawn before the publication;
        this can include lapsed or ceased patents and might depend on national patent law
regulations;
    X=Code available for individual or provisional use by an IPO;
-->

<!--Application reference information: application number, country.
In case of a filing reference, the kind code is empty and the date refers to the filing date.
-->
<ELEMENT application-reference (country , doc-number , filing-date?)>

<!--Filing Date: components of a date. Format: YYYYMMDD (WIPO ST.2)-->
<ELEMENT filing-date (#PCDATA)>

<!--Priority application identification (priority-claim)-->
<ELEMENT priority-claims (priority-claim+)>

<ELEMENT priority-claim (country , doc-number , kind , date)>

<!ATTLIST priority-claim  sequence          CDATA #REQUIRED
                        priority-claim-kind (national | regional | international ) #REQUIRED >

<!-- 1/07/2019 - Add CWS/7/17 for alignment with XSD <!--ELEMENT additional-comment (#PCDATA)-->
<ELEMENT comment-text (#PCDATA)>

```

[□ □ □ □ □]