

## **Committee on WIPO Standards (CWS)**

**Seventh Session**  
**Geneva, July 1 to 5, 2019**

### REVISION OF WIPO STANDARD ST.37

*Document prepared by the International Bureau*

#### INTRODUCTION

1. At the fifth session held in 2017, the Committee on WIPO Standards (CWS) adopted a WIPO Standard ST.37 *“Recommendation for an authority file of published patent documents”* with the following Editorial Note by the International Bureau:

“Annexes III and IV to the present Standard, which define XML schema (XSD) and Data Type Definition (DTD), are under preparation by the Authority File Task Force. They are planned to be presented for consideration and adoption by the Committee on WIPO Standards (CWS) at its sixth session in 2018.”

“Until the said Annexes are adopted by the CWS, the only recommended format for the purpose of this Standard is text.”

(see paragraphs 60 and 61 of document CWS/5/22).

2. At its sixth session held in 2018, the CWS approved the revised WIPO Standard ST.37 on the basis of the proposal by the Authority File Task Force (AFTF), which included new Annex III – XSD and Annex IV- DTD (see document CWS/6/19 and paragraphs 122 and 123 of document CWS/6/34). As a result of the CWS approving these revisions, and newly proposed Annexes, at the sixth session, the description of Task No. 51 was updated to relate directly to the management of the Standard (see document CWS/6/18).

3. At the sixth session in 2018, the CWS also approved the removal of “Editorial Note by the International Bureau” and the revised description of Task No. 51: “*Ensure the necessary revisions and updates of WIPO Standard ST.37*”.

#### SUMMARY OF PROPOSED REVISION

4. Within the framework of Task No. 51, the International Bureau, in consultation with the Authority File Task Force members, has prepared a proposal for revision of WIPO Standard ST.37. The proposed changes are summarized below. Further details are provided in the Annex to the present document.

5. The proposed changes to WIPO ST.37 can be summarized as:

(a) an edit of paragraph 9(c) of the Main Body of ST.37, to remove reference to the document kind code in reference to the application identification element. This is to clarify that the kind code for this element is indeed optional. The newly modified paragraph 9(c) of WIPO ST.37 would then read:

9(c) application identification of the corresponding publication, which should contain the following sub-elements:

- v. two-letter alphabetic code of the IPO publishing the application;
- vi. application number;
- ~~vii. kind of document code;~~ and
- viii. filing date.

(b) a complete revision of all documentation included within the Annex III – XSD. Feedback from the IP Offices received during the first phase of publication of authority file data-sets was that further description was required to provide an understanding of the purpose of these fields. The newly proposed Annex III of WIPO ST.37 is reproduced as the Annex to this document;

(c) an edit of the Appendix of Annexes III and IV of WIPO ST.37 to provide further clarification on how grouping is performed within the Authority File instance. The current examples, for both the XSD and DTD, indicate that there is no grouping but also indicates in the same header that grouping is according to the document kind code. It is proposed that reference to <group-category> field is removed from both Appendices;

(d) the renaming of the `PriorityClaimType` and `PriorityClaimBagType` provided in Annex III-XSD to `PriorityApplicationIdentificationType` and `PriorityApplicationIdentificationBagType` respectively. This is to ensure there is no confusion over use of this element and to ensure alignment with the WIPO Standard ST.37 Main Body paragraph 9(b) (see the Annex to this present document); and

(e) a replacement of the reference to `AdditionalComment` element within the current schema (Annex III) with `com:CommentText`, an WIPO Standard ST.96 element. All XML schemas should reuse any relevant ST.96 components in preference to creating a new element (see the Annex to the present document).

6. The International Bureau further proposes that the content of Appendixes to Annex III and Annex IV of ST.37, which are example XML instances, be provided as two separate files downloadable from WIPO website, i.e., Part 3 of the WIPO Handbook and linked to within WIPO ST.37. This will not only ensure that the Standard is much shorter in length but also will allow users of the Standard a greater ability to make use of these examples.

7. *The CWS is invited to:*

*(a) note the content of the present document;*

*(b) consider and approve the proposed revision to WIPO Standard ST.37 summarized in paragraphs 4 and 5 above and reproduced in the Annex to the present document.*

*(c) consider and approve the suggestion to provide the content of Appendixes to Annexes III and IV of WIPO Standard ST.37 as two separate files, linked to the Standard, as indicated in paragraph 6 above.*

[Annex follows]

## ANNEX - XSD

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:pat="http://www.wipo.int/standards/XMLSchema/ST96/Patent"
  xmlns:com="http://www.wipo.int/standards/XMLSchema/ST96/Common"
  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:import namespace="http://www.wipo.int/standards/XMLSchema/ST96/Common"
    schemaLocation="AdditionalComment.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
    therefore. </xsd:documentation>
  </xsd:annotation>
  <xsd:element name="AFLatestDocumentDate" type="com:DateType">
    <xsd:annotation>
      <xsd:documentation>Date of the most recent 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>Identification of 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:sequence>
  </xsd:complexType>
</xsd:schema>
```

```

        <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>
        <xsd:documentation>The 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>Authority File information 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>Definition Provide definition file related information
relating to the 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:AdditionalComment CommentText" />
        <xsd:element ref="com:DocumentLocationURI"/>
    </xsd:choice>
    <xsd:attribute ref="com:id"/>
    <xsd:attribute ref="pat:contentCategory" use="required"/>
    <xsd:attribute ref="pat:groupCategory"/>
    <xsd:attribute ref="pat:backupCategory" use="required"/>
</xsd:complexType>
<xsd:element name="AuthorityFileEntry" type="pat:AuthorityFileEntryType">
    <xsd:annotation>
        <xsd:documentation>Data elements to uniquely identify all types of patent
documents as originally published by the IP office</xsd:documentation>
        <xsd:documentation>An entry within the authority file
which provides required components in order to comply with WIPO
ST.37.</xsd:documentation>
    </xsd:annotation>
</xsd:element>
<xsd:complexType name="AuthorityFileEntryType">

```

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    <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:PriorityClaimBagPriorityApplicationIdentificationBag"
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="backupCategory" type="pat:BackupCategoryType">
    <xsd:annotation>
      <xsd:documentation>Backup Category of Determines how updates to the
authority file will be performed e.g., incremental versus full.</xsd:documentation>
    </xsd:annotation>
  </xsd:attribute>
  <xsd:simpleType name="BackupCategoryType">
    <xsd:restriction base="xsd:token">
      <xsd:enumeration value="full">
        <xsd:annotation>
          <xsd:documentation>Full refresh of data every update
period.</xsd:documentation>
        </xsd:annotation>
      </xsd:enumeration>
      <xsd:enumeration value="incremental">
        <xsd:annotation>
          <xsd:documentation>Incremental update with only new data
provided since last update period.</xsd:documentation>
        </xsd:annotation>
      </xsd:enumeration>
      <xsd:enumeration value="differential">
        <xsd:annotation>
          <xsd:documentation>Differential update includes data not
previously supplied in any update period.</xsd:documentation>
        </xsd:annotation>
      </xsd:enumeration>
    </xsd:restriction>
  </xsd:simpleType>
  <xsd:element name="BeginRangeNumber" type="xsd:string">
    <xsd:annotation>
      <xsd:documentation>Begin number of a publication number
range</xsd:documentation>
    </xsd:annotation>
  </xsd:element>
  <xsd:attribute name="contentCategory" type="pat:ContentCategoryType">
    <xsd:annotation>
      <xsd:documentation>Content Provides an indication of whether the content
Category of authority file is grouped or not. The 'complete' indicates that it is not
grouped.</xsd:documentation>
    </xsd:annotation>
  </xsd:attribute>
  <xsd:simpleType name="ContentCategoryType">
    <xsd:restriction base="xsd:token">
      <xsd:enumeration value="complete">
        <xsd:annotation>
          <xsd:documentation>Complete or not grouped</xsd:documentation>
        </xsd:annotation>
      </xsd:enumeration>
    </xsd:restriction>
  </xsd:simpleType>

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        <xsd:enumeration value="grouped">
            <xsd:annotation>
                <xsd:documentation>Grouped</xsd:documentation>
            </xsd:annotation>
        </xsd:enumeration>
    </xsd:restriction>
</xsd:simpleType>
<xsd:element name="DataCoverageURI" type="xsd:anyURI">
    <xsd:annotation>
        <xsd:documentation>A detailed (annual) data-coverage can be found online at
http://www.XX-office.org/coverage</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>End number of a publication number
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 cited within a search
report is relevant to.</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"/>
        <xsd:element ref="pat:DocumentTotalQuantity"/>
    </xsd:sequence>
</xsd:complexType>
<xsd:element name="ExceptionCodeDefinition" type="pat:ExceptionCodeDefinitionType">
    <xsd:annotation>
        <xsd:documentation>IPO specific use of publication exception code
definition</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>Exception code description text</xsd:documentation>
    </xsd:annotation>
</xsd:element>
<xsd:element name="ExceptionCodeList" type="pat:ExceptionCodeListType">
    <xsd:annotation>
        <xsd:documentation>IPO specific use of publication exception
codes</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 codes "N" should refer to the IPO
definition file</xsd:documentation>
      </xsd:annotation>
    </xsd:enumeration>
    <xsd:enumeration value="P">
      <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 codes "W" should refer to the IPO
definition file</xsd:documentation>
      </xsd:annotation>
    </xsd:enumeration>
  </xsd:restriction>
</xsd:simpleType>

```



```

        </xsd:annotation>
    </xsd:enumeration>
    <xsd:enumeration value="X">
        <xsd:annotation>
            <xsd:documentation>The use of codes "X" should refer to the IPO
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="groupCategory" type="pat:GroupCategoryType">
    <xsd:annotation>
        <xsd:documentation>Group Category of authority file.</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>Indicate that a Boolean which indicates whether an
element or part is incorporated by reference in the (international)
application</xsd:documentation>
    </xsd:annotation>
</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 i.e. 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 cited within a search
report is relevant to. </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>Most recent Provide the publication number and associated
date for the latest patent document information 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>
  <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>IPO specific use of An element within the
PatentDocumentKindCodeList. Includes both the document kind-of-documents 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>IPOA description of the patent document kind code
definition</used by a particular IPO.</xsd:documentation>
    </xsd:annotation>
</xsd:element>
<xsd:element name="PatentDocumentKindCodeList"
type="pat:PatentDocumentKindCodeListType">
    <xsd:annotation>
        <xsd:documentation>IPOA list of specific use-of-document kind-of-documents
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>Identification of<del> 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:IPOfficeCode"/>
        <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="PriorityClaimPriorityApplicationIdentification"
type="pat:PriorityClaimTypePriorityApplicationIdentificationType">
    <xsd:annotation>
        <xsd:documentation>Priority claim information</Details of the priority
application which is associated with the particular authority file
entry.</xsd:documentation>
    </xsd:annotation>
</xsd:element>

```

```

<xsd:element name="PriorityClaimBagPriorityApplicationIdentificationBag"
type="pat:PriorityClaimBagTypePriorityApplicationIdentificationBagType">
  <xsd:annotation>
    <xsd:documentation>Applications in which A list of priority is
claimed applications which are used to claim priority. Refers to ST.9 INID Code
30.</xsd:documentation>
  </xsd:annotation>
</xsd:element>
<xsd:complexType name="PriorityClaimBagTypePriorityApplicationIdentificationBagType">
  <xsd:sequence>
    <xsd:element ref="pat:PriorityClaimPriorityApplicationIdentification"
maxOccurs="unbounded"/>
    <xsd:element ref="pat:IncorporationByReferenceIndicator" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute ref="com:id"/>
</xsd:complexType>
<xsd:complexType name="PriorityClaimTypePriorityApplicationIdentificationType">
  <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 reange cited within a search report is
relevant to.</range over which the authority file is valid. Part of the definition file
component.</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</ which identifies a particular
patent document.</xsd:documentation>
  </xsd:annotation>
</xsd:element>
<xsd:element name="PublicationNumberRange" type="pat:PublicationNumberRangeType">
  <xsd:annotation>
    <xsd:documentation>A collection range of patent publication numbers
cited which are included within a search report is relevant to 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:sequence>
</xsd:complexType>
<xsd:element name="RequestedPriorityDocumentIndicator" type="xsd:boolean"
fixed="true">
  <xsd:annotation>
    <xsd:documentation>The A Boolean which indicates that the receiving office
is (RO) has been 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>
```

[End of Annex and of document]