

产权组织标准委员会（CWS）

第十一届会议

2023 年 12 月 4 日至 8 日，日内瓦

关于优先权文件和经证明副本电子交换用数据包格式的新产权组织标准提案

数字转型工作队牵头人编拟的文件

概 要

1. 数字转型工作队提交了一份关于经认证优先权文件数字包的新产权标准草案终稿，供产权组织标准委员会（CWS）第十一届会议审议和通过。

背 景

2. 标准委员会在第十届会议上批准增设第 65 号任务，该任务是在《专利合作条约》（PCT）工作组第十五届会议上提出的，建议标准委员会制定一项新的产权组织标准，以便能够以产权组织标准 ST.26 格式传输序列列表，作为优先权文件和经证明副本的一部分。这项任务分配给了数字转型工作队，任务说明如下：

“就专利、商标和工业品外观设计优先权文件和经证明副本电子交换用数据包格式的建议编写提案。”

3. 承担这项任务的数字转型工作队已在线举行过会议，并在工作组维基空间上进行了讨论。有关工作队筹备活动的更多详情，可查阅文件 CWS/11/11。

关于新标准的提案

4. 知识产权局目前正在寻找一种方法，以便在收到请求时，以原始格式传送包含产权组织标准 ST. 26 XML 格式序列表的优先权文件。自产权组织标准 ST. 26 生效以来，已经找到了几种解决方案，其中包括使用样式表制作 XML 文档的 PDF 人类可读版本。

5. 拟议的标准草案转录于本文件附件，其中建议了优先权文件电子交换用数据包格式，但是有意未详述数据包的传输方式。

目标

6. 本标准旨在对经证明优先权文件及其他相关文件电子交换用数据包格式提出建议，依据是：

- 《保护工业产权巴黎公约》第四条 D 第(3)款规定，联盟国家可以要求作出优先权声明的任何人制作一份以前提交的工业产权申请副本；以及
- 巴黎联盟大会和 PCT 联盟大会于 2004 年商定的谅解¹特别指出，关于何以构成优先权文件和申请日的证明以及以何种方式对此种文件作出证明的问题，应由提供优先权文件的主管机关决定。

7. 这一拟议标准旨在定义数据包格式和结构、数据包中必须包含的内容以及数据包所含文件的命名约定。标准的主要目标是：

- 允许以标准化方式高效地交换经认证优先权文件以及与专利、商标和工业品外观设计申请有关的其他相关文件；
- 支持这些优先权文件的机器对机器通信，并实现对这些文件的进一步自动化处理；以及
- 通过交换结构化文本格式改进文件处理工作，如以产权组织标准 ST. 26 的 XML 格式交换专利文件中包含的序列列表，以及以产权组织标准 ST. 36、ST. 96 和 ST. 97 格式交换申请正文和著录项目数据。

范围

8. 该标准不限定交换所用的传输模式，而是定义了数据包中应包括的数据类型和文件格式、数据包的结构和命名规则。除了根据建议被指为强制性组件的组件之外，认证局可自行决定数据包中应包含哪些内容。

9. 拟议标准的结构如下：

- 主体：定义数据包结构和命名规则；
- 附件一：以表格形式提供优先权文件数据包样本的模型，并在附件一的附录中以树状结构形式提供相同信息；以及
- 附件二：提供优先权索引文件的 XML 架构定义，并在附件二的附录中提供一个示范用 XML 示例。

10. 建议产权组织新标准采用以下名称：

“产权组织标准 ST. 92——关于优先权文件和经证明副本电子交换用数据包格式的建议”

¹ 见文件 A/40/6 第 9 段。

新产权组织标准的实施

11. 一旦标准委员会通过拟议的新产权组织标准，知识产权局应考虑实施该标准。工作队牵头人和国际局建议采取一种渐进的方法，同时设定一个 2025 年底前的“日落期”，允许知识产权局按照自己的进度完成新标准的实施。建议自 2026 年 1 月 1 日起，知识产权局仅接受和提供符合该标准的优先权文件。

12. 对于在产权组织数字查询服务（DAS）中实施该标准，国际局计划自 2024 年 7 月 1 日起接受和提供符合新标准的优先权文件，与现行格式并行，但要在 2025 年底前完成过渡。考虑到上文第 11 段建议的“日落期”，产权组织数字查询服务计划自 2026 年 1 月 1 日起只接受和提供符合本标准的优先权文件。关于在产权组织数字查询服务中实施拟议标准的进一步技术细节，应由参与产权组织数字查询服务的知识产权局单独讨论。

关于修订第 65 号任务的建议

13. 一旦关于经认证优先权文件数据包的拟议新标准获得标准委员会通过，第 65 号任务即应被视为已完成，数字转型工作队也将圆满结束关于这项工作的工作。在实施新标准时，知识产权局可能需要对产权组织标准 ST. 92 进行一些改进。因此，建议将第 65 号任务的说明修订如下：

“确保对产权组织标准 ST. 92 进行必要的修订和更新，同时支持知识产权局在 2025 年底之前实施该标准。”

14. 请标准委员会：

(a) 注意本文件及其附件的内容；

(b) 如上文第10段所述，审议并批准拟议标准的名称“产权组织标准 ST. 92——关于优先权文件和经认证副本电子交换用数据包格式的建议”；

(c) 审议并通过上文第8至9段提及并转录于本文件附件的新产权组织标准 ST. 92；

(d) 审议并商定上文第11和12段所述的实施计划；以及

(e) 如上文第13段所述，审议并批准对第65号任务的修订。

[后接附件]

STANDARD ST.##

RECOMMENDATIONS ON THE DATA PACKAGE FORMAT FOR THE
ELECTRONIC EXCHANGE OF PRIORITY DOCUMENTS AND
CERTIFIED COPIES

*Proposal presented for consideration and approval by the Committee on WIPO Standards (CWS)
at its eleventh session.*

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STANDARD ST.##**RECOMMENDATIONS ON THE DATA PACKAGE FORMAT FOR THE
ELECTRONIC EXCHANGE OF PRIORITY DOCUMENTS AND
CERTIFIED COPIES**

*Proposal presented for consideration by the Committee on WIPO Standards (CWS)
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INTRODUCTION

1. This Standard defines the data package format for the electronic exchange of priority documents. It is recommended that intellectual property offices (IPOs) furnish any data package of certified priority documents compliant with this Standard and accept the priority documents which are furnished by another IPO according to this Standard. Article 4D(3) of the Paris Convention for the Protection of Industrial Property allows countries of the Union to require any person making a declaration of priority to produce a copy of the industrial property application previously filed. The copy must be certified as correct by the authority which received such application.

2. The agreed understanding by the Assemblies of the Paris Union and the Patent Cooperation Treaty (PCT) Union in 2004¹ indicates that it is for the competent authority furnishing the priority document to determine what constitutes certification of a priority document and the date of filing, and how it will certify such a document. At the same time, there is a need to ensure that the Office where a later application is filed, is able to read and use those documents efficiently.

3. The purpose of this Standard is to allow for the efficient, lossless and standardized exchange of certified priority documents and other relevant documents. This Standard is to support machine-to-machine communication of these priority documents and enable further automated processing of those documents. This Standard is also to improve processing of documents by exchanging structured text formats such as sequence listings in XML format of WIPO Standard ST.26, and application body and bibliographic data in the formats of WIPO Standards ST.36, ST.96 and ST.97.

DEFINITIONS AND TERMINOLOGY

4. For the purpose of this Standard, the expression:

- “priority document” means a copy of the earlier patent, trademark, or industrial design application, certified by the authority with which it was filed, that the applicant is claiming as the date of disclosure.
- “patent” includes such industrial property rights as patents for inventions, plant patents, design patents, inventor's certificates, utility certificates, utility models, patents of addition, inventor's certificates of addition and utility certificates of addition.
- “trademark” means a sign or combination of signs which distinguishes the goods or services of one undertaking from those of other undertakings. Signs may consist of one or more distinctive words, letters, numbers, drawings or pictures, symbols, colors, sounds, the form or other special presentation of containers or packages for a product (provided it is not solely dictated by their function) or other aspects depending on the jurisdiction.
- “industrial design” means the visual aspect of an object, including its two-dimensional and three-dimensional features of shape and surface of objects, and thus covers both concepts of “designs” and “models” where a distinction is made between the former and the latter; the term “industrial designs” does not include design patents.
- “certifying Office” means the Office which furnished and certified the priority document.
- “certified” means that the certifying Office has determined that this is a true copy of the priority document. How this document is certified is outside the scope of this Standard.
- “recipient Office” means the “Office of second filing” or “Office of subsequent filing”.
- “schema” means XML Schema Definition (XSD) as defined in Annex II of this Standard.
- “ZIP” means a compressed file format that can be lossless and is defined in ISO/IEC 213201:2015.

¹ See paragraph 9 of document [A/40/6](#)

5. The following notations are used throughout this document:
- <>: Indicates a placeholder descriptive term that, in implementation, will be replaced with a specific instance value.
 - “ ”: Indicates that the text included in quotes must be used verbatim in implementation.
 - { }: Indicates that the items are optional in implementation.
 - `Courier font`: Indicates filenames, folder names, XML keywords, XML tag names and XML codes.

SCOPE OF THE STANDARD

6. This Standard aims to guide IPOs how to package certified priority document data related to a patent, trademark, or industrial design application, ready for exchange preferably using machine-to-machine communication. The Standard is neutral in reference to the transmission mode used for exchange, rather it defines the type of data and file formats to be included in the package, the structure of this package and naming conventions. It should be noted that additional accompanying files might be necessary to support the transmission of the certified priority document data package, which are considered outside the scope of this Standard.

REQUIREMENTS OF THE STANDARD

7. A priority document data package (hereafter referred to as PDDP) must be generated by a certifying Office with the relevant documents compressed together as a single ZIP file. The PDDP ZIP file must be able to be decompressed by commonly used software for example WinZip², 7-Zip³, or Unix/Linux Zip; deflation with normal compression option and must not be password protected or encrypted.

8. All artifacts for priority document exchange purposes should be included in this PDDP ZIP file. The certifying Office determines the contents to be included in the PDDP ZIP file according to international, regional, or national laws.

9. The PDDP ZIP file consists of mandatory and optional components and these documents must be placed in the corresponding folders as specified in the Data Package Structure of this Standard. The mandatory components of the ZIP file are a Priority Document Index file and a single certified Priority Document PDF file. In addition, some other documents can be mandatory, depending on the IP right in question. For example, a sequence listing in XML for a patent application⁴, a sound mark in MP3 file for a trademark application⁵ and a 3D visual representation in STEP for an industrial design application⁶. The certified priority documents mean either only the single certified Priority Document PDF file or the combination of the single certified Priority Document PDF file and some other documents which are placed in the `OtherCertifiedArtifacts` folder explained below.

Data Package Structure

10. The PDDP ZIP file must contain a single Priority Document Index file and a single certified Priority Document PDF file, at top-level, whose contents are within the responsibility of the certifying Office. For example, in case of a patent priority document, it typically will consist of the certification page, description, claims, abstract and drawings of the application. The PDF file should be text based and all fonts used must be embedded in that PDF. The PDDP ZIP file may also contain two folders labelled `OtherCertifiedArtifacts` and `SupplementaryArtifacts` as described below if the relevant forms of content are to be within the PDDP ZIP file. These folders should not be provided if empty.

Index File

11. The Priority Document Index file (hereafter referred to as the Index file) provides the list of documents included in the PDDP ZIP file and any metadata associated with these documents so that recipient Offices can determine the contents of the data package. The Index file must specify the certifying Office, the application number, application filing date, the type of IP right for the priority document which must be one of the following permissible values: 'patent', 'trademark' and 'industrial design'.

² <https://www.winzip.com/en/>

³ <https://www.7-zip.org/>

⁴ See WIPO Standard ST.26

⁵ See WIPO Standard ST.68

⁶ See WIPO Standards ST.88 and ST.91

12. The Index file also provides the list of documents which are included in the PDDP ZIP file with respective data elements indicating each document. The `CertifiedPriorityDocumentBag` indicates the single Certified Priority Document PDF file and other documents which are placed in the `OtherCertifiedArtifacts` folder if existent. The `SupplementaryDocumentBag` indicates other relevant documents if provided in the `SupplementaryArtifacts` folder. The `DocumentDate` element for the `CertifiedPriorityDocument` element represents the date of creation of the Certified Priority Document PDF file.

13. The Index file is an XML file and must comply with the XML schema (XSD) provided as Annex II of this Standard. A sample Index XML file is provided as the Appendix to Annex II.

OtherCertifiedArtifacts folder

14. The `OtherCertifiedArtifacts` folder contains some other documents, if present, which are a mandatory part of the application, but normally provided as a separate file, for example, a sequence listing for a patent application. In the case of the priority document of a patent application, a sequence listing is the only document type permitted in this folder. The sequence listing should be provided in WIPO Standard ST.26, ST.25 or ST.23 format⁷ as originally submitted by the applicant. The content of the sequence listing should preferably not be rendered into PDF format and if it is rendered it should be included in the Certified Priority Document PDF file. For example, the contents of a PDDP ZIP file, containing a priority document with a sequence listing is as follows:

```
- \OtherCertifiedArtifacts folder
    US_17822338_20230331_SequenceListing_ST26.xml
```

SupplementaryArtifacts folder

15. The intent of adding a `SupplementaryArtifacts` folder is to allow the certifying Office to provide other relevant documents, which do not form part of the formal certified priority document itself but that are advantageous for processing the information of the priority document. A document may consist of several files. For example, drawings within a patent application may consist of multiple image files.

16. The `SupplementaryArtifacts` folder may consist of several sub-folders where the certifying Office considers it useful to provide these other relevant documents to the recipient Office. The sub-folder should not exist if empty. Folders can be created as needed under `SupplementaryArtifacts` and/or within the sub-folders considering the file format of the provided documents:

```
- \SupplementaryArtifacts (folder)
    o \XML (folder)8
    o \Images (folder)
    o \DOCX (folder)
    o \JSON (folder)
    o \ZIP (folder)
```

17. The `SupplementaryArtifacts` folder may be extended with additional sub-folders as determined by the certifying Office as required. For example, a `\MP4` sub-folder for multi-media files.

Naming Conventions

18. These naming convention rules are necessary to ensure consistency, uniformity and comprehensiveness in the naming of files and defining of all documents transmitted as part of the data package. These include the PDDP ZIP file itself, the Certified Priority Document PDF file and the Index file. Other files, such as the external image files referenced by XML documents do not need to follow these naming conventions.

19. The Index Schema defined in Annex II to this Standard must follow the naming conventions and rules of WIPO Standard ST.96.

Filenames

20. The characters used in the filenames of documents directly referenced in the Index file must belong to the

⁷ All patent applications filed on or after July 1, 2022 disclosing amino acid and nucleotide sequences must contain an ST.26 XML compliant sequence listing. Any sequence listing furnished in respect of any applications filed before that date should still comply with WIPO Standards ST.25 or ST.23.

⁸ The XML folder may contain contents that are not XML files but in that case these contents must be referenced from the XML files provided in that folder. For example, TIFF image files that are not referenced in the XML instances provided must be provided in the Images folder.

following set: 'a-z, A-Z, 0-9', underscore "_", and period ".", where the underscore must only be used as a term separator.

21. The filename of the PDDP ZIP file must be in the format of:
<IP right type>"_ "<certifying Office ST.3 code >"_ "<application number>"_ "<the filing date in the format of yyyyymmdd>.zip
and the IP right type must be one of the values of "Patent", "Trademark" and "IndustrialDesign".

For example: Patent_US_17822338_20170331.zip would be the filename provided for the patent priority document furnished and certified by the United State Patent and Trademark Office (USPTO) for the patent application, which was filed on March 31, 2017 with an application number of 17822338.

22. The filename of Priority Document Index file must always be named: "PriorityDocumentIndex.xml".

23. The filename for the Certified Priority Document PDF file must be in the format of:
<certifying Office ST.3 Code>"_ "<application number>"_ "<filing date >"_ "PriorityDocument"{"_ "<a unique identifier>}.pdf.
The date should be in the format of CCYYMMDD according to WIPO Standard ST.2

For example: US_17822338_20170331_PriorityDocument_000497.pdf for a priority document which is furnished and certified by the USPTO, the application number of which is 17822338 which was filed on March 31, 2017.

24. For files relating to documents located within the SupplementaryArtifacts folder, it is recommended that the filename include at least the following components:
<certifying Office ST.3 Code>, <application number>, and <category of document component>". <file extension>.
The "category of document component" indicates the type of a component which can be a part of the application or related data to the application. For a patent application, this component could be "ApplicationBody", "Drawings", "Classification" or "BibliographicData".

For example: US_17822338_20170331_BibliographicData.xml for bibliographic data in XML concerning the application of 17822338, which was filed on March 31, 2017, and provided by the USPTO.

REFERENCES

25. References to the following Standards and resources are of relevance to this Standard:

WIPO Standard ST.2	Standard manner for designating calendar dates by using Gregorian calendar.
WIPO Standard ST.3	Two-letter codes for the representation of states, other entities and intergovernmental organizations.
WIPO Standard ST.25	Presentation of nucleotide and amino acid sequence listings
WIPO Standard ST.26	Presentation of nucleotide and amino acid sequence listings using XML (eXtensible Markup Language)
WIPO Standard ST.36	Processing of Patent documents using XML (eXtensible Markup Language)
WIPO Standard ST.68	Electronic Management of Sound Marks
WIPO Standard ST.88	Electronic Representation of Industrial Designs
WIPO Standard ST.90	Processing and communicating intellectual property data using Web APIs (Application programming interfaces)
WIPO Standard ST.91	Recommendations on digital three-dimensional (3D) models and 3D images
WIPO Standard ST.96	Processing of intellectual property information using XML (Extensible Markup Language)
WIPO Standard ST.97	Processing of intellectual property data using JSON

[Annex I follows]

ANNEX I

PRIORITY DOCUMENT EXCHANGE EXAMPLE PACKAGE STRUCTURE

*Proposal presented for consideration by the Committee on WIPO Standards (CWS)
at its eleventh session.*

Provided below is a mock-up of a sample priority document data package, PDDP ZIP file, in table format, for Patent_US_17822338_20170331.zip, which describes the package structure including the files and folders which are included within the ZIP file. Comments are provided to further detail each component.

Patent US 17822338_20170331.zip			
File/Folder Name	File/Folder Name	Sub-Level File Name	Comment:
PriorityDocumentIndex.xml			Index file
US_17822338_20170331_PriorityDocument_000497.pdf			Certified Priority Document PDF.
\OtherCertifiedArtifacts			
	US_17822338_20170331_SequenceListing_ST26.xml		Sequence listing complaint with WIPO ST.26
\SupplementaryArtifacts			
	\XML	US_17822338_20170331_ApplicationBody.xml	Application body and other related artifacts including the drawings referenced by the specification, bibliographic and classification data
		US_17822338_20170331_Abstract.xml	
		US_17822338_20170331_Description.xml	
		US_17822338_20170331_Claims.xml	
		US_17822338_20170331_BibliographicData.xml	
		US_17822338_20170331_ClassificationData.xml	
		US_17822338_20170331_0001.tif	Drawings referenced by the description
		US_17822338_20170331_0002.tif	Drawings referenced by the description
	\Images	US_17822338_20170331_Drawings.pdf	Image files which are not referenced by the application body or a scanned file that is optionally provided within the data package.
	\DOCX	US_17822338_20170331_Claims.docx	Claims in DOCX format
		US_17822338_20170331_Description.docx	Description in DOCX format

APPENDIX TO ANNEX I

SAMPLE PACKAGE STRUCTURE (TREE FORMAT)

The following tree structure is an alternative representation of the data presented in the Table shown above in Annex I.

```
+---Patent_US_17822338_20170331.zip
| PriorityDocumentIndex.xml           //sample index XML file
| US_17822338_20170331_PriorityDocument_000497.pdf //main priority document in PDF format
|
+---OtherCertifiedArtifacts
|   US_17822338_20170331_SequenceListing_ST26.xml //sample WIPO ST. 26 sequence listing
|
\---SupplementaryArtifacts
|
+---XML
|   US_17822338_20170331_ApplicationBody.xml //sample application body in XML
|   US_17822338_20170331_Abstract.xml       //sample abstract in XML
|   US_17822338_20170331_Claims.xml        //sample claims in XML
|   US_17822338_20170331_Description.xml   //sample description in XML
|   US_17822338_20170331_00001.tif        //sample drawing image in TIFF referenced by Description
|   US_17822338_20170331_00002.tif        //sample drawing image in TIFF referenced by Description
|   US_17822338_20170331_BibliographicData.xml //sample bibliographic data in XML
|   US_17822338_20170331_ClassificationData.xml //sample classification data in XML
|
+---Images
|   US_17822338_20170331_Drawings.pdf      //sample drawings file in PDF
|
+---DOCX
|   US_17822338_20170331_Claims.docx      //sample claims in DOCX
|   US_17822338_20170331_Description.docx //sample description in DOCX
```

[Annex II follows]

ANNEX II

XML SCHEMA FOR PRIORITY DOCUMENT INDEX XML FILES¹

*Proposal presented for consideration by the Committee on WIPO Standards (CWS)
at its eleventh session.*

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:pde="http://www.wipo.int/standards/XMLSchema/PriorityDocumentExchange"
xmlns:com="http://www.wipo.int/standards/XMLSchema/ST96/Common"
targetNamespace="http://www.wipo.int/standards/XMLSchema/PriorityDocumentExchange"
elementFormDefault="qualified" attributeFormDefault="qualified" version="V1_0">
  <xsd:import namespace="http://www.wipo.int/standards/XMLSchema/ST96/Common"
schemaLocation="ST96_Common_V1_1.xsd"/>
  <xsd:element name="PriorityDocumentIndex" type="pde:PriorityDocumentIndexType">
    <xsd:annotation>
      <xsd:documentation>Index file for priority document
exchange</xsd:documentation>
      <xsd:appinfo>
        <com:SchemaLastModifiedDate>2023-11-
21</com:SchemaLastModifiedDate>

        <com:SchemaContactPoint>standards@wipo.int</com:SchemaContactPoint>
      </xsd:appinfo>
    </xsd:annotation>
  </xsd:element>
  <xsd:complexType name="PriorityDocumentIndexType">
    <xsd:sequence>
      <xsd:element ref="pde:IPTypeCategory"/>
      <xsd:element ref="pde:ApplicationNumber"/>
      <xsd:element ref="pde:ApplicationFilingDate"/>
      <xsd:element ref="pde:CertifiedPriorityDocumentBag"/>
      <xsd:element ref="pde:SupplementaryDocumentBag" minOccurs="0"/>
    </xsd:sequence>
    <xsd:attribute ref="com:id"/>
    <xsd:attribute ref="com:languageCode" use="required"/>
    <xsd:attribute ref="com:creationDate"/>
  </xsd:complexType>
  <xsd:complexType name="CertifiedPriorityDocumentBagType">
    <xsd:sequence>
      <xsd:element ref="pde:CertifiedPriorityDocument"/>
      <xsd:element ref="pde:OtherCertifiedDocumentBag" minOccurs="0"/>
    </xsd:sequence>
    <xsd:attribute ref="com:id"/>
  </xsd:complexType>
  <xsd:element name="ApplicationNumber" type="pde:ApplicationNumberType">
    <xsd:annotation>
      <xsd:documentation>Numbers used by IPOs in order to identify each
application received, where IP Office code is mandatory</xsd:documentation>
    </xsd:annotation>
  </xsd:element>
  <xsd:complexType name="ApplicationNumberType">
    <xsd:sequence>
      <xsd:element ref="com:IPOofficeCode"/>
      <xsd:choice>
        <xsd:element ref="com:ST13ApplicationNumber"/>

```

¹ Note: This XML Schema (XSD) is based on version 7.1 of WIPO Standard ST.96.

```

                <xsd:element ref="com:ApplicationNumberText"/>
            </xsd:choice>
        </xsd:sequence>
    </xsd:complexType>
    <xsd:element name="CertifiedPriorityDocumentBag"
type="pde:CertifiedPriorityDocumentBagType">
        <xsd:annotation>
            <xsd:documentation>A collection of certified
artifacts</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="OtherCertifiedDocumentBag"
type="pde:OtherCertifiedDocumentBagType">
        <xsd:annotation>
            <xsd:documentation>A collection of other Certified
artifacts</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:complexType name="OtherCertifiedDocumentBagType">
        <xsd:sequence>
            <xsd:element ref="pde:CertifiedPriorityDocument"
maxOccurs="unbounded"/>
        </xsd:sequence>
        <xsd:attribute ref="com:id"/>
    </xsd:complexType>
    <xsd:complexType name="SupplementaryDocumentBagType">
        <xsd:sequence>
            <xsd:element ref="pde:SupplementaryPriorityDocument"
maxOccurs="unbounded"/>
        </xsd:sequence>
        <xsd:attribute ref="com:id"/>
    </xsd:complexType>
    <xsd:element name="SupplementaryDocumentBag"
type="pde:SupplementaryDocumentBagType">
        <xsd:annotation>
            <xsd:documentation>A collection of supplementary
artifacts</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="OtherCertifiedDocument" type="pde:CertifiedPriorityDocumentType">
        <xsd:annotation>
            <xsd:documentation>Other certified document other than the certified
priority document in PDF</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="SupplementaryPriorityDocument"
type="pde:SupplementaryPriorityDocumentType">
        <xsd:annotation>
            <xsd:documentation>Supplementary artifact of priority
document</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="CertifiedPriorityDocument"
type="pde:CertifiedPriorityDocumentType">
        <xsd:annotation>
            <xsd:documentation>Certified priority document in PDF
format</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:complexType name="CertifiedPriorityDocumentType">
        <xsd:sequence>
            <xsd:element ref="com:DocumentName"/>
            <xsd:element ref="com:FileName"/>
            <xsd:element ref="com:DocumentLocationURI"/>
            <xsd:element ref="pde:PriorityDocumentStatusCategory" minOccurs="0"/>
            <xsd:element ref="com:DocumentFormatCategory" minOccurs="0"/>
            <xsd:element ref="pde:PriorityDocumentComponentCategory"
minOccurs="0"/>
            <xsd:element ref="com:DocumentDate" minOccurs="0"/>
            <xsd:element ref="com:DocumentVersion" minOccurs="0"/>
        </xsd:sequence>
    </xsd:complexType>

```

```
<xsd:element ref="com:DocumentSizeQuantity" minOccurs="0"/>
<xsd:element ref="com:PageTotalQuantity" minOccurs="0"/>
<xsd:element ref="com:CommentText" minOccurs="0"/>
</xsd:sequence>
<xsd:attribute ref="com:id"/>
<xsd:attribute ref="com:sequenceNumber"/>
<xsd:attribute ref="com:languageCode"/>
</xsd:complexType>
<xsd:simpleType name="PriorityDocumentStatusCategoryType">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="As Filed">
      <xsd:annotation>
        <xsd:documentation>The document is identified the same
as filed</xsd:documentation>
      </xsd:annotation>
    </xsd:enumeration>
    <xsd:enumeration value="Legal Copy">
      <xsd:annotation>
        <xsd:documentation>The document is identified as the
legal copy</xsd:documentation>
      </xsd:annotation>
    </xsd:enumeration>
  </xsd:restriction>
</xsd:simpleType>
<xsd:element name="PriorityDocumentStatusCategory"
type="pde:PriorityDocumentStatusCategoryType">
  <xsd:annotation>
    <xsd:documentation>Indicates whether a priority document is as filed
or considered to be the legal copy</xsd:documentation>
  </xsd:annotation>
</xsd:element>
<xsd:complexType name="SupplementaryPriorityDocumentType">
  <xsd:sequence>
    <xsd:element ref="com:DocumentName"/>
    <xsd:choice>
      <xsd:element ref="com:FileName"/>
      <xsd:element ref="com:FileNameBag"/>
    </xsd:choice>
    <xsd:element ref="com:DocumentLocationURI"/>
    <xsd:element ref="pde:PriorityDocumentStatusCategory" minOccurs="0"/>
    <xsd:element ref="com:DocumentFormatCategory" minOccurs="0"/>
    <xsd:element ref="pde:PriorityDocumentComponentCategory"
minOccurs="0"/>
    <xsd:element ref="com:DocumentDate" minOccurs="0"/>
    <xsd:element ref="com:DocumentVersion" minOccurs="0"/>
    <xsd:element ref="com:DocumentSizeQuantity" minOccurs="0"/>
    <xsd:element ref="com:PageTotalQuantity" minOccurs="0"/>
    <xsd:element ref="com:CommentText" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute ref="com:id"/>
  <xsd:attribute ref="com:sequenceNumber"/>
  <xsd:attribute ref="com:languageCode"/>
</xsd:complexType>
<xsd:element name="IPTypeCategory" type="pde:IPTypeCategoryType">
  <xsd:annotation>
    <xsd:documentation>Describes the filing type of application i.e.,
Patent, Trademark and Industrial Design</xsd:documentation>
  </xsd:annotation>
</xsd:element>
<xsd:simpleType name="IPTypeCategoryType">
  <xsd:restriction base="xsd:token">
    <xsd:enumeration value="Patent">
      <xsd:annotation>
        <xsd:documentation>Patent includes such industrial
property rights as patents for inventions, plant patents, design patents, inventor's
certificates, utility certificates, utility models, patents of addition, inventor's
certificates of addition and utility certificates of addition.</xsd:documentation>
      </xsd:annotation>
    </xsd:enumeration>
    <xsd:enumeration value="Trademark">

```

```
<xsd:annotation>
  <xsd:documentation>Trademarks means a sign or
combination of signs which distinguishes the goods or services of one undertaking from
those of other undertakings. Signs may consist of one or more distinctive words, letters,
numbers, drawings or pictures, symbols, colours, sounds, the form or other special
presentation of containers or packages for a product (provided it is not solely dictated by
their function) or other aspects depending on the jurisdiction. </xsd:documentation>
</xsd:annotation>
</xsd:enumeration>
<xsd:enumeration value="Industrial Design">
  <xsd:annotation>
    <xsd:documentation>Industrial design means the visual
aspect of an object, including its two-dimensional and three-dimensional features of shape
and surface of objects, and thus covers both concepts of designs and models where a
distinction is made between the former and the latter; the term industrial designs does not
include design patents.</xsd:documentation>
  </xsd:annotation>
</xsd:enumeration>
</xsd:restriction>
</xsd:simpleType>
<xsd:element name="PriorityDocumentComponentCategory" type="xsd:token">
  <xsd:annotation>
    <xsd:documentation>A category which identifies the component of a
priority document, such as the application body of a patent application or the sound file
of a trademark application</xsd:documentation>
  </xsd:annotation>
</xsd:element>
<xsd:element name="ApplicationFilingDate" type="com:DateType">
  <xsd:annotation>
    <xsd:documentation>The filing date of the
application</xsd:documentation>
  </xsd:annotation>
</xsd:element>
</xsd:schema>
```

[Appendix to Annex II follows]

APPENDIX TO ANNEX II
EXAMPLE PATENT PRIORITY DOCUMENT INDEX FILE

*Proposal presented for consideration by the Committee on WIPO Standards (CWS)
at its eleventh session.*

```
<?xml version="1.0" encoding="UTF-8"?>
<pde:PriorityDocumentIndex xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:pde="http://www.wipo.int/standards/XMLSchema/PriorityDocumentExchange"
xmlns:com="http://www.wipo.int/standards/XMLSchema/ST96/Common" com:languageCode="en"
xsi:schemaLocation="http://www.wipo.int/standards/XMLSchema/PriorityDocumentExchange
PriorityDocumentIndex_V1_0.xsd">
  <pde:IPTypeCategory>Patent</pde:IPTypeCategory>
  <pde:ApplicationNumber>
    <com:IPOfficeCode>US</com:IPOfficeCode>
    <com:ApplicationNumberText>17822338</com:ApplicationNumberText>
  </pde:ApplicationNumber>
  <pde:ApplicationFilingDate>2017-03-31</pde:ApplicationFilingDate>
  <pde:CertifiedPriorityDocumentBag>
    <pde:CertifiedPriorityDocument>
      <com:DocumentName>Certified Priority Document</com:DocumentName>
      <com:FileName>US_17822338_20170331_PriorityDocument_000497.pdf</com:FileName>
      <com:DocumentLocationURI></com:DocumentLocationURI>
      <com:DocumentFormatCategory>PDF</com:DocumentFormatCategory>
      <pde:PriorityDocumentComponentCategory>Certified priority
document</pde:PriorityDocumentComponentCategory>
      <com:DocumentDate>2022-06-24</com:DocumentDate>
      <com:PageTotalQuantity>6</com:PageTotalQuantity>
    </pde:CertifiedPriorityDocument>
    <pde:OtherCertifiedDocumentBag>
      <pde:CertifiedPriorityDocument>
        <com:DocumentName>Sequence Listing</com:DocumentName>
        <com:FileName>US_17822338_20170331_SequenceListing_ST26.xml</com:FileName>
        <com:DocumentLocationURI>OtherCertifiedArtifacts/</com:DocumentLocationURI>
        <pde:PriorityDocumentStatusCategory>Legal
Copy</pde:PriorityDocumentStatusCategory>
        <com:DocumentFormatCategory>XML</com:DocumentFormatCategory>
        <pde:PriorityDocumentComponentCategory>Sequence
listing</pde:PriorityDocumentComponentCategory>
        <com:DocumentDate>2017-03-31</com:DocumentDate>
      </pde:CertifiedPriorityDocument>
    </pde:OtherCertifiedDocumentBag>
  </pde:CertifiedPriorityDocumentBag>
  <pde:SupplementaryPriorityDocumentBag>
    <pde:SupplementaryPriorityDocument>
      <com:DocumentName>ApplicationBody</com:DocumentName>
      <com:FileName>US_17822338_20170331_ApplicationBody.xml</com:FileName>
      <com:DocumentLocationURI>SupplementaryArtifacts/XML/</com:DocumentLocationURI>
      <pde:PriorityDocumentStatusCategory>Legal
Copy</pde:PriorityDocumentStatusCategory>
      <com:DocumentFormatCategory>XML</com:DocumentFormatCategory>
      <pde:PriorityDocumentComponentCategory>Application
body</pde:PriorityDocumentComponentCategory>
    </pde:SupplementaryPriorityDocument>
  </pde:SupplementaryPriorityDocumentBag>
  <pde:SupplementaryPriorityDocument>
    <com:DocumentName>Abstract</com:DocumentName>
    <com:FileName>US_17822338_20170331_Abstract.xml</com:FileName>
    <com:DocumentLocationURI>SupplementaryArtifacts/XML/</com:DocumentLocationURI>
    <pde:PriorityDocumentStatusCategory>As
Filed</pde:PriorityDocumentStatusCategory>
```

```
<com:DocumentFormatCategory>XML</com:DocumentFormatCategory>
<pde:PriorityDocumentComponentCategory>Abstract</pde:PriorityDocumentComponentCategory>
ry>
  </pde:SupplementaryPriorityDocument>
  <pde:SupplementaryPriorityDocument>
    <com:DocumentName>Description</com:DocumentName>
    <com:FileName>US_17822338_20170331_Description.xml</com:FileName>
  </pde:SupplementaryPriorityDocument>
  <com:DocumentLocationURI>SupplementaryArtifacts/XML</com:DocumentLocationURI>
  <com:DocumentFormatCategory>XML</com:DocumentFormatCategory>
<pde:PriorityDocumentComponentCategory>Description</pde:PriorityDocumentComponentCategory>
egory>
  </pde:SupplementaryPriorityDocument>
  <pde:SupplementaryPriorityDocument>
    <com:DocumentName>Drawings</com:DocumentName>
    <com:FileNameBag>
      <com:FileName>US_17822338_20170331_00001.tif</com:FileName>
      <com:FileName>US_17822338_20170331_00002.tif</com:FileName>
    </com:FileNameBag>
  </pde:SupplementaryPriorityDocument>
  <com:DocumentLocationURI>SupplementaryArtifacts/XML</com:DocumentLocationURI>
  <com:DocumentFormatCategory>TIFF</com:DocumentFormatCategory>
<pde:PriorityDocumentComponentCategory>Drawing</pde:PriorityDocumentComponentCategory>
y>
  </pde:SupplementaryPriorityDocument>
  <pde:SupplementaryPriorityDocument>
    <com:DocumentName>Claims</com:DocumentName>
    <com:FileName>US_17822338_20170331_Claims.xml</com:FileName>
  </pde:SupplementaryPriorityDocument>
  <com:DocumentLocationURI>SupplementaryArtifacts/XML</com:DocumentLocationURI>
  <com:DocumentFormatCategory>XML</com:DocumentFormatCategory>
<pde:PriorityDocumentComponentCategory>Claims</pde:PriorityDocumentComponentCategory>
>
  </pde:SupplementaryPriorityDocument>
  <pde:SupplementaryPriorityDocument>
    <com:DocumentName>Bibliographic Data</com:DocumentName>
    <com:FileName>US_17822338_20170331_BibliographicData.xml</com:FileName>
  </pde:SupplementaryPriorityDocument>
  <com:DocumentLocationURI>SupplementaryArtifacts/XML</com:DocumentLocationURI>
  <com:DocumentFormatCategory>XML</com:DocumentFormatCategory>
  <pde:PriorityDocumentComponentCategory>Bibliographic
data</pde:PriorityDocumentComponentCategory>
  </pde:SupplementaryPriorityDocument>
  <pde:SupplementaryPriorityDocument>
    <com:DocumentName>Classification Data</com:DocumentName>
    <com:FileName>US_17822338_20170331_ClassificationData.xml</com:FileName>
  </pde:SupplementaryPriorityDocument>
  <com:DocumentLocationURI>SupplementaryArtifacts/XML</com:DocumentLocationURI>
  <com:DocumentFormatCategory>XML</com:DocumentFormatCategory>
  <pde:PriorityDocumentComponentCategory>Classification
data</pde:PriorityDocumentComponentCategory>
  </pde:SupplementaryPriorityDocument>
  <pde:SupplementaryPriorityDocument>
    <com:DocumentName>Drawings</com:DocumentName>
    <com:FileName>US_17822338_20170331_Drawings.pdf</com:FileName>
  </pde:SupplementaryPriorityDocument>
  <com:DocumentLocationURI>SupplementaryArtifacts/Images</com:DocumentLocationURI>
  <com:DocumentFormatCategory>PDF</com:DocumentFormatCategory>
<pde:PriorityDocumentComponentCategory>Drawing</pde:PriorityDocumentComponentCategory>
y>
  </pde:SupplementaryPriorityDocument>
  <pde:SupplementaryPriorityDocument>
    <com:DocumentName>Claims</com:DocumentName>
```

```
<com:FileName>US_17822338_20170331_Claims.docx</com:FileName>
<com:DocumentLocationURI>SupplementaryArtifacts/DOCX/</com:DocumentLocationURI>
  <com:DocumentFormatCategory>MS Word</com:DocumentFormatCategory>
<pde:PriorityDocumentComponentCategory>Claims</pde:PriorityDocumentComponentCategory
>
  </pde:SupplementaryPriorityDocument>
  <pde:SupplementaryPriorityDocument>
    <com:DocumentName>Description</com:DocumentName>
    <com:FileName>US_17822338_20170331_Description.docx</com:FileName>
  <com:DocumentLocationURI>SupplementaryArtifacts/DOCX/</com:DocumentLocationURI>
    <com:DocumentFormatCategory>MS Word</com:DocumentFormatCategory>
  <pde:PriorityDocumentComponentCategory>Description</pde:PriorityDocumentComponentCat
egory>
    </pde:SupplementaryPriorityDocument>
  </pde:SupplementaryDocumentBag>
</pde:PriorityDocumentIndex>
```

[End of Annex II and of Standard]

[附件和文件完]