# ZC

# 中华人民共和国知识产权行业标准

ZC 0012.2-2006

# 专利数据元素标准 第 2 部分:关于用 XML 处理中国发明、实 用新型专利文献数据的暂行办法

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## 前言

ZC 0012《专利数据元素标准》分为三个部分:

- ——第1部分:关于用 XML 处理复审请求审查决定、无效请求审查决定和司法判决文件的暂行办法;
  - ——第2部分:关于用 XML 处理中国发明、实用新型专利文献数据的暂行办法;
  - ——第3部分:关于用 XML 处理中国专利审批业务相关数据的暂行办法;

本部分为 ZC 0012 的第 2 部分。

本部分的附录为规范性附录。

本部分由中华人民共和国国家知识产权局批准。

本部分由中华人民共和国国家知识产权局标准化委员会提出并归口。

本部分起草单位:中华人民共和国国家知识产权局《专利数据元素标准》制订工作组。

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# 引言

为使用 XML 技术处理中国发明、实用新型专利文献数据,实现数据生成、维护、加工的电子化和数码化,进一步提高数据的质量,方便数据交换,ZC 0012 的本部分作出了针对中国发明、实用新型专利文献数据的 XML DTD 定义。

## 关于用 XML 处理中国发明、实用新型专利文献数据的暂行办法

#### 1 范围

ZC 0012 的本部分 ZC 0012 的本部分规定了在使用 XML 技术对中国发明、实用新型专利文献数据加工、交换、处理时所应遵循的规则。

#### 2 术语和定义

下列术语和定义适用于 ZC 0012 的本部分。除国家法律另有明确规定外,国家知识产权局对于 ZC 0012 的本部分中采用的术语和定义拥有最终解释权。

#### 2.1 专利申请

ZC 0012 的本部分所称"专利申请"包括发明专利申请、实用新型专利申请。

#### 2.2 公布

ZC 0012 的本部分所称"公布" 是指发明专利申请经初步审查合格后,自申请日(或优先权日)起 18 个月期满时的公布或根据申请人的请求提前进行的公布。

#### 2.3 公告

ZC 0012 的本部分所称"公告" 是指对发明专利申请经实质审查没有发现驳回理由,授予发明专利权时的授权公告;对实用新型专利申请经初步审查没有发现驳回理由,授予实用新型专利权时的授权公告。

#### 2.4 专利文献

ZC 0012 的本部分所称"专利文献" 是指国家知识产权局按照法定程序公布的发明、实用新型专利申请文件和公告的授权专利文件。

#### 2.5 XML

ZC 0012 的本部分所称"XML"是 Extensible Markup Language 的缩写(意为可扩展的标记语言)。 XML 是一套定义语义标记的规则,这些标记将文档分成许多部件并对这些部件加以标识。它也是元标记语言,即定义了用于定义其他于特定领域有关的、语义的、结构化的标记语言的句法语言。

#### 3 XML 元素及其属性的定义和说明

ZC 0012 的本部分涉及的 DTD 定义见附录的 DTD 定义文件 cn-patent-document-06-10-27.dtd,该 附录直接附在标准正文之后。在该文件中有所有元素及其属性的中、英注解。

#### 4 参考文献

ZC 0012 的本部分主要参考了 WIPO ST.36<sup>1</sup>标准中公共元素(ICE, 2005-02-20 版)的定义和其 专利文献模板 DTD 定义(xx-patent-document-v1-0-20050220.dtd)。

<sup>&</sup>lt;sup>1</sup> WIPO 标准 ST.36 《用于 XML 处理专利信息的建议》(2005-02-20 版)

#### 5 电子数据格式的基本要求

#### 5.1 字符集

ZC 0012 的本部分的文档实例应当采用 UTF-8 字符集,即在每一个文档的第一行,应当出现 <?xml version="1.0" encoding="UTF-8"?>

对于 UTF-82中且 wipo.ent 中未定义的字符,应当通过 sipo.ent 进行定义。

#### 5.2 属性

#### 5.2.1 id

id 属性可以用来标识文档中的特定对象。对于不同类型的对象,建议使用不同的前缀和后缀进行区分。例如,段落的各个元素的属性可以考虑依次设置为"p0001", "p0002" ... "p0101"等。

#### **5.2.2** idref

可以通过 idref 属性来引用文档中的特定的具有 id 属性的对象,如权利要求 claim-ref、交叉引用 crossref、附图引用 figref 等。应保证 idref 仅作为文档中特定对象的引用使用,不应用作其他用途。

#### 5.3 文档实例

#### 5.3.1 有效性

文档实例应当是有效的,即格式符合 XML v1.1 标准的要求。

#### 5.3.2 合法性

文档实例应当是合法的。文档实例中必须通过!DOCTYPE 指名文档的类型。如 <?xml version="1.0" encoding="UTF-8"?> <!DOCTYPE cn-patent-document SYSTEM "cn-patent-document-06-10-27.dtd"> 并且文档实例应当符合 DTD 的要求。

#### 5.3.3 版本标注

文档实例应当通过根元素的相关属性明确指出文档使用的 DTD 的版本。如 <cn-patent-document dtd-version="cn-patent-document v1.0 2006-03-06">

#### 5.3.4 元素内容

文档中的元素应当尽可能的避免不必要的空格和回车等字符。如应当使用 <postcode>20231</postcode>
而不要使用

<postcode> 20231 </postcode>.

#### 5.4 外部实体

文档实例中可以引用符合以下规定的外部实体,包括 TIFF、JPEG、ST.33 定义的传真数据、ST.35 定义的混合模式数据、ST25 定义的序列表数据、PDF 等。

#### 5.4.1 PDF 格式

所有的该格式的文件必须作为 XML 文件中的参照文件,并且满足以下要求: 和 Adobe Acrobat v1.4 兼容。

<sup>&</sup>lt;sup>2</sup> UTF8 is a code page that uses a string of bytes to represent a 16-bit Unicode string where ASCII text (<=U+007F) remains unchanged as a single byte, U+0080-07FF (including Latin, Greek, Cyrillic, Hebrew, and Arabic) is converted to a 2-byte sequence, and U+0800-FFFF (Chinese, Japanese, Korean, and others) becomes a 3-byte sequence.

没有压缩的文本。

没有加密的文本。

没有数字签名。

没有嵌入的 OLE 对象。

所有的字体应该是内嵌的并且是许可发布的。

5.4.2 Tagged Image File Format (TIFF) 格式

所有的该格式的文件必须作为 XML 文件中的参照文件,并且满足以下要求:

TIFF V6.0 版,使用 Group 4 压缩方式,单 strip 的,使用 Intel 编码方式。

分辨率 300-----400DPI。

图像尺寸: 建议使用 A4 (210x297mm,) 或者 Letter 7 size (215.9x279.4mm), 不要超过 170mm x 255mm。

5.4.3 JPEG File Interchange Format (JFIF) 格式

所有的该格式的文件必须作为 XML 文件中的参照文件,并且满足以下要求:

分辨率 150-----400DPI。

图像尺寸: 建议使用 A4 (210x297mm,) 或者 Letter 7 size (215.9x279.4mm), 不要超过 170mm x 255mm。

5.4.4 WIPO ST. 33 - Recommended Standard Format for Data Exchange of Facsimile Information of Patent Documents 专利文献传真信息数据交换的推荐格式标准

所有的该格式的文件必须作为 XML 文件中的参照文件,关于该格式的具体定义见: http://www.wipo.int/scit/en/standards/standards.htm.

5. 4. 5 WIPO ST. 35 - Recommended Standard Format for Data Exchange of Mixed-Mode Published Patent Document Information on Reel-To-Reel and IBM 3480/90 Cartridge Tapes 专利文献 混合模式数据磁带存贮的推荐格式标准

所有的该格式的文件必须作为 XML 文件中的参照文件,关于该格式的具体定义见: http://www.wipo.int/scit/en/standards/standards.htm.

5. 4. 6 WIPO ST. 25 - Standard for The Presentation of Nucleotide and Amino Acid Sequence Listing in Patent Applications 专利申请中核甘酸和氨基酸序列表数据表示的推荐标准

所有的该格式的文件必须作为 XML 文件中的参照文件,关于该格式的具体定义见: http://www.wipo.int/scit/en/standards/standards.htm.

5.4.7 chemML、CML 等 XML 格式

所有的该格式的文件必须作为 XML 文件中的参照文件,该格式的文件可以用来表示化学公式或者结构式数据。

5.4.8 符合 table-external DTD 的外部表格 XML 格式

所有的该格式的文件必须作为 XML 文件中的参照文件,该格式的文件可以用来表示外部表格数据,包括数量巨大的化学公式或者结构式、数学公式、计算机程序源代码、表格等数据。

table-external DTD 的具体定义见:

http://www.wipo.int/pct-safe/epct/SchemaDocs/1.3/SchemaDocs.htm

### 5.5 主要元素说明

元素	构成和说明	内容说明
cn-publication-reference	(document-id,	公布/公告数据(公布/公
	gazette-reference?)	告号、日期、种类、卷
		期号等)
application-reference	(document-id)	专利申请数据(申请号、
••		申请日、申请种类等)
correction	(document-corrected,	更正数据
	type-of-correction?,	
	gazette-reference?, text?)	
priority-claims	(priority-claim+)	优先权数据
classification-ipc	(ipc-version,	国际专利分类数据
	main-classification,	
	further-classification*,	
	(additional-info	
	linked-indexing-code-group	
	unlinked-indexing-code)*,	
	text?)该结构用于表示 8 版前	
	的版本。	
classification-ipcr	((ipc-version-indicator,	国际专利分类数据(该
Classification-ipci	classification-level?, section,	结构用于表示 8 版 IPC)
	class,	知何用 1 农小 6 成 IFC /
	, and the second	
	subgroup?, symbol-position?,	
	classification-value?,	
	action-date?,	
	generating-office?,	
	classification-status?,	
	classification-data-source?)	
	text)	1
invention-title	(#PCDATA   b   i   u   sup	<b>标题</b>
	sub)* 该结构包括了上下角	
	标。	
references-cited	(text   (citation+,	引用文件数据
	date-search-completed?,	
	date-search-report-mailed?,	
	place-of-search?,	
	search-report-publication?,	
	searcher?))该结构比较宽泛,	
	既包括了复杂的结构也包括	
	了简单的文本。	
division	(relation)	分案原申请数据
cn-related-publication	(cn-publication-reference*)	同一申请有关的公告/公

		布数据
date-pct-article-22-39-fulfilled	(date)	进入国家阶段日期
pct-or-regional-filing-data	(document-id,	PCT 国际申请申请数
	us-371c124-date?)	据
pct-or-regional-publishing-data	(document-id,	PCT 国际申请国际公
	gazette-reference?)	布数据
cn-domestic-priority-claim	(substitution)	本国优先权数据
cn-applicants	(cn-applicant+)	申请人数据
cn-inventors	(cn-inventor)+	发明人数据
agents	(customer-number   agent+)	专利代理数据
abstract	(doc-page+   (abst-problem,	摘要
	abst-solution)   p+)该结构比	
	较宽泛,既可以是代码化的	
	结构也可以是图象方式的文	
	档页。	
claims	(doc-page+   claim+)该结构	权利要求
	比较宽泛,既可以是代码化	
	的结构也可以是图象方式的	
	文档页。	
bio-deposit	(depositary, bio-accno, date?,	生物材料保藏数据
	term?, dtext?)	
cn-patentee	(assignees)	专利权人数据
cn-related-documents	(division?,	和本申请有关的其他国
	cn-domestic-priority-claims?)	内申请数据
application-body	(doc-page+   (description,	专利申请体 (专利申请
	claims, abstract?, drawings?))	的主体)
	该结构既可以是代码化的也	
	可以是图象方式的。	

#### 6 相关标准的参照

ZC 0012的本部分的制定及执行参照以下标准:

ZC 0007-2004 《专利文献号标准》(2004年1月版)

ZC 0008-2004 《专利文献种类标识代码标准》(2004年1月版)

ZC 0009-2006 《专利文献著录项目标准(试行)》(2006年11月版)

WIPO ST.2 《采用公历标示日期的标准方法》(1997年12月版)

WIPO ST.3 《用双字母代码表示国家、其他实体及政府间组织的推荐标准》(2004年12月版)

WIPO ST.9 《关于专利及补充保护证书的著录数据的建议》(2004年2月版)

WIPO ST.10/B 《著录项目数据的设计》(2003年6月版)

WIPO ST.14 《在专利文献中列入引证的参考文献的建议》(2005年1月版)

WIPO ST.18 《关于专利公报及其它专利公告期刊的建议》(1998年4月版)

WIPO ST.34 《用于著录项目数据交换的以电子形式记录申请号的建议》(1997年11月版)

WIPO ST.36 《用于XML处理专利信息的建议》(2005-02-20版)

WIPO ST.50 《与专利信息有关的修正、替换和增补文献出版指南》(1998年11月版)

ISO639: 1988 语种名称代码

#### 7 ZC 0012 的本部分的发布和实施

#### 7.1 ZC 0012 的本部分的发布

ZC 0012 的本部分于 2006 年 12 月 22 日发布。

#### 7.2 ZC 0012 的本部分的施行

ZC 0012 的本部分于 2007 年 1 月 1 日施行。

#### 7.3 ZC 0012 的本部分的监督

国家知识产权局标准化委员会负责监督 ZC 0012 的本部分的施行。

#### 7.4 ZC 0012 的本部分的改进

国家知识产权局标准化委员会对 ZC 0012 的本部分管理者提出的改进建议进行评审,如有必要,可以制定新标准代替 ZC 0012 的本部分。

## 附录 (规范性附录) DTD 定义

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- edited with XMLSPY v5 U (http://www.xmlspy.com) by et8 (et8) -->
<!--cn-patent-document v1.0 2006-03-06
   http://www.sipo.gov.cn/standards/xml/cn-patent-document.dtd
   这是一个用于描述中国发明、实用新型专利文献数据的 DTD 定义。
   本 DTD 是 WIPO ST36 的一个应用, 依据的是 2005-09-22 的 ST36 的版本, 使用的是 2005-02-20
的
   ICE 和 xx-patent-document 版本。
-->
<!--cn-patent-document v1.0 2006-03-06
   http://www.sipo.gov.cn/standards/xml/cn-patent-document.dtd
   DTD FOR PUBLISHED CHINA PATENT DATA
   This DTD is based on WIPO ST36(2005-09-22) and ICE(2005-02-20).
-->
<!--
 ********************************
 * SECTION I - DECLARATION, ENT. REFs, ISO sets, etc
 *************************
-->
<!--
 **********************************
 * 节 I - 声明, 实体, 引用外部 DTD, 字符集等
 ****************************
<!--关于引用 MATHML2_DTD 和 TABLE_DTD 的说明:
 要引用 mathml2.dtd 将 MATHML2_DTD 的值改成 "INCLUDE", 将
 MATH PLACEHOLDER 值改成 "IGNORE", 对于 TABLE DTD
 TABLE PLACEHOLDER 以及 WIPO ENT 和 SIPO ENT 是同样的
 INCLUDE
 IGNORE
-->
<!--
 to include mathml2.dtd change MATHML2 DTD value to "INCLUDE", change
 MATH_PLACEHOLDER value to "IGNORE", the same for the TABLE_DTD and
 TABLE PLACEHOLDER
 INCLUDE
 IGNORE
```

```
-->
<!ENTITY % UNICODE PLANE1D ESCAPE "IGNORE">
<!ENTITY % WIPO_ENT "IGNORE">
<!ENTITY % SIPO ENT "IGNORE">
<!ENTITY % MATHML2 DTD "IGNORE">
<!ENTITY % TABLE DTD "IGNORE">
<!ENTITY % MATH PLACEHOLDER "INCLUDE">
<!ENTITY % TABLE_PLACEHOLDER "INCLUDE">
<![%UNICODE PLANE1D ESCAPE; [
 <!ENTITY % plane1D "&#38;#38;#xE">
]]>
<!--WIPO SIPO 定义的字符集实体. 可以从以下网址下载:
http://pcteasy.wipo.int/efiling standards/schemaDocs/wipo.ent
http://www.sipo.gov.cn/standards/xml/sipo.ent
-->
<!--
    import character entity set. Download from:
        http://pcteasy.wipo.int/efiling standards/schemaDocs/wipo.ent
        http://www.sipo.gov.cn/standards/xml/sipo.ent
  Note that nsgmls-based parsers (SP, Near & Far Designer, etc.)
  may not be able to process this file for reasons described below
  in MathML comments.
 -->
<![%WIPO ENT;[
<!ENTITY % wipo PUBLIC "-//WIPO//ENTITIES WIPO 1.0//EN" "wipo.ent">
%wipo;
]]>
<![%SIPO ENT;[
<!ENTITY % sipo PUBLIC "-//SIPO//ENTITIES SIPO 1.0//ZH" "sipo.ent">
%sipo;
]]>
<!--引用 DTD MathML2,由 W3C 维护, 从
       http://www.w3.org/TR/MathML2/DTD-MathML-20010221.zip 下载
 -->
<!--
  DTD MathML2: maintained by W3C. Download from:
    http://www.w3.org/TR/MathML2/DTD-MathML-20010221.zip
  If using nsgmls-based parser (SP, Near & Far Designer, etc.)
  Uncomment 'mathml-charent-module' switch below or replace the Referenced
  MathML2 DTD with the version downloadable from:
    http://www.w3.org/Math/DTD/dtd-sp.zip
  This notice copied from: http://www.w3.org/Math/DTD/
  "DTD for nsgmls
    Some systems (including the popular nsgmls parser) may not be able to
    process files using 'plane 1' characters which have Unicode numbers
```

```
the modifications mentioned above, but the high characters are replaced
    by the equivalent mchar construct <mchar name="..." /> this allows the
    DTD to be read and for MathML files to be validated using such sytems."
<![%MATHML2 DTD; [
<!--
  ENTITY % mathml-charent.module "IGNORE"
<!ENTITY % MATHML.prefixed "IGNORE">
<!ENTITY % MATHML.xmlns "">
  import MathML2 dtd
<!ENTITY % mathml2 PUBLIC "-//W3C//DTD MathML 2.0//EN" "mathml2.dtd">
%mathml2;
]]>
<!--引用 DTD OASIS Open XML Exchange Table Model,由 OASIS 维护,从
        http://oasis-open.org/specs/soextblx.dtd 下载
-->
<!--
  DTD OASIS Open XML Exchange Table Model.
  Maintained by OASIS; download from:
    http://oasis-open.org/specs/soextblx.dtd
  Note that the FPI in soextblx.dtd refers to itself as 'calstblx'.
  That convention has been followed here.
-->
<![%TABLE DTD; [
<!--
  create content for title element in table
<!ENTITY % title "<!ELEMENT title (#PCDATA | b | i | u | sup | sub | smallcaps)* > ">
%title:
  override OASIS Exchange <entry> model
-->
<!ENTITY % tbl.entry.mdl "(#PCDATA | b | i | u | sup | sub | smallcaps | br | patcit | nplcit | bio-deposit |
crossref | img | dl | ul | ol | chemistry | maths)* ">
<!--
  import OASIS Exchange model
<!ENTITY % calstblx PUBLIC "-//OASIS//DTD XML Exchange Table Model 19990315//EN"
                               "soextblx.dtd">
```

higher than #xFFFF. The versions of the DTD provided here incoprorate

```
<!ENTITY % yesorno "NMTOKEN" >
<!ENTITY % tbl.table.att "pgwide
                                  %yesorno;
                                                 #IMPLIED
                             orient
                                     (port | land)
                                                 #IMPLIED
                                                       #IMPLIED" >
                             tabstyle NMTOKEN
%calstblx;
]]>
<![%MATH PLACEHOLDER; [
  (PLACEHOLDER:w3c math dtd)
-->
<!ELEMENT math (#PCDATA)>
]]>
<![%TABLE_PLACEHOLDER; [
<!--
  (PLACEHOLDER:cals table dtd)
-->
<!ELEMENT table (#PCDATA)>
<!--通用的名字结构实体-->
<!--general name entity -->
<!ENTITY % name_group "((name | (prefix? , (last-name | orgname) , first-name?</pre>
                       , middle-name?, suffix?, iid?, role?, orgname?
                       , department? , synonym*)) , registered-number?)">
<!--表示通用的地址结构实体-->
<!--general address entity -->
<!ENTITY % address group "((address-1?, address-2?, address-3?, mailcode?</pre>
                           , pobox?, room?, address-floor?, building?
                          , street?, city?, county?, state?, postcode?
                          , country) | text)">
<!-- 表示公共属性的实体 -->
<!-- common attribute entity -->
<!-- 属性:
       id
               标号
               语言
       lang
       status
             状态 -->
<!--attribute:
               id
       id
       lang
               language
       status status-->
<!ENTITY % body_sections " id
                                CDATA #IMPLIED
                                  CDATA #IMPLIED
                            lang
                            status CDATA #IMPLIED">
<!--
  *****************************
```

```
v1.0 2006-03-06 定义
 * SECTION II - cn-patent-document
 ******************************
<!--
 ********************
 * SECTION II - cn-patent-document
                               v1.0 2006-03-06 DIFINATION
 **************************
<!--中国专利文献-->
<!--chinese patent document-->
<!--属性:
                           标号
         id
                           专利文献使用的语言
         lang
         dtd-version
                         dtd 版本号
         country
                           公布/公告文献的国家
         file-reference-id
                        文献中涉及的文件的编码
                         修正码
         correction-code
         doc-number
                           文献号
         kind
                           文献种类
                          文献产生日期
         date-produced
         date-publ
                          文献公布/公告日期
         status
                          文献状态-->
<!--attribute:
         id
                           id
         lang
                           language
         dtd-version
                         dtd version
         country
                           patent document country
         file-reference-id
                        referenced file id
         correction-code
                         correction code
         doc-number
                           document number
         kind
                           kind of document
         date-produced
                          produced date
         date-publ
                          publication date
         status
                          patent document status-->
<!ELEMENT
                               (doc-page+
                                              (cn-bibliographic-data,
                                                                  application-body?,
             cn-patent-document
sequence-list-doc?, table-external-doc*))>
<!ATTLIST cn-patent-document
   id ID #IMPLIED
   lang CDATA #REQUIRED
   dtd-version CDATA #IMPLIED
   file CDATA #IMPLIED
   country CDATA #REQUIRED
   file-reference-id CDATA #IMPLIED
   correction-code CDATA #IMPLIED
```

```
doc-number CDATA #IMPLIED
    kind CDATA #IMPLIED
    date-produced CDATA #IMPLIED
    date-publ CDATA #IMPLIED
    status CDATA #IMPLIED
>
<!--著录项目数据.-->
<!--Bibliographic data-->
<!--属性:
          id
                      标号
                      著录项目使用语言
          lang
                     国别
          country
                    状态-->
          status
<!--attribute:
          id
                      id
          lang
                     language
                     country
          country
          status
                     stastus-->
<!ELEMENT
               cn-bibliographic-data
                                     (cn-publication-reference,
                                                               correction?,
                                                                             application-reference,
priority-claims?, classification-ipc?, classifications-ipcr?, invention-title+, assignees?, references-cited?,
abstract?, figures?, cn-abstract-drawing?, cn-related-publication, cn-related-documents, cn-parties,
date-pct-article-22-39-fulfilled?, pct-or-regional-filing-data?, pct-or-regional-publishing-data?, text*)>
<!ATTLIST cn-bibliographic-data
    id ID #IMPLIED
    lang CDATA #IMPLIED
    country CDATA #IMPLIED
    status CDATA #IMPLIED
<!--序列表文件-->
<!--Sequence list document n-->
<!--属性:
          id
                      标号号
          lang
                      语言
          status
                     状态-->
<!--attribute:
          id
                      id
          lang
                     language
          status
                    stastus-->
<!ELEMENT sequence-list-doc (#PCDATA | doc-page | sequence-list)*>
<!ATTLIST sequence-list-doc
    id ID #IMPLIED
    lang CDATA #IMPLIED
    status CDATA #IMPLIED
```

```
<!--符合 ST.25 标准的序列表文件-->
<!--
  SEQUENCE LISTING
    According to WIPO ST.25: STANDARD FOR THE PRESENTATION OF NUCLEOTIDE AND
    AMINO ACID SEQUENCE LISTINGS IN PATENT APPLICATIONS:
      see http://www.wipo.int/scit/en/index.html
    "The sequence listing as defined in paragraph 2(i) shall, where it is filed
    together with the application, be placed at the end of the application.
    This part shall be entitled Sequence Listing, begin on a new page and
    preferably have independent page numbering. The sequence listing forms an
    integral part of the description; it is therefore unnecessary, subject to
    paragraph 36, to describe the sequences elsewhere in the description."
    Therefore we create here a separate sub-document for sequence listings,
    it should follow any drawings or the claims.
    It should follow the format of ST.25 and be an external file
-->
<!--属性:
                          标号
          id
          file
                         文件名
          lang
                          语言
          carriers
                        序列表载体(国内电子件/国外电子件/纸件)
          seq-file-type 序列表文件类型
                         状态-->
          status
<!--attribute:
          id
                           Sequence list id
          file
                          sequence list file
                           Sequence list language
          lang
                         sequence list carriers(internal-electronic/external-electronic/paper)
          carriers
                        sequence list file type
          seq-file-type
                          Sequence list stastus-->
          status
<!ELEMENT sequence-list EMPTY>
<!ATTLIST sequence-list
    id ID #IMPLIED
    file CDATA #REQUIRED
    lang CDATA #IMPLIED
    carriers (internal-electronic | external-electronic | paper) #IMPLIED
    seq-file-type CDATA #FIXED "ST.25"
    status CDATA #IMPLIED
<!--INID 10 12 19 43 45 48 公布/公告信息(公布/公告号、日期、种类等)-->
<!--Publication reference information: publication number, date, etc-->
<!--属性:
                         标号
           id
                         语言
```

lang

```
状态
          status
                       国别-->
          country
<!--attribute:
          id
                        id
          lang
                        language
          status
                       status
                       country-->
          country
<!ELEMENT cn-publication-reference (document-id, gazette-reference?)>
<!ATTLIST cn-publication-reference
    id CDATA #IMPLIED
    lang CDATA #IMPLIED
    status CDATA #IMPLIED
    country CDATA #IMPLIED
<!-- INID 21 22 专利申请有关信息 , 属性 appl-type 专利申请的种类 如发明专利、实用新型专利
<!--Application reference information: application number, application-type
 ( inventions and utility medels and designs) -->
<!--属性:
                       专利申请的种类, 如发明专利、实用新型专利-->
           appl-type
<!--attribute:
           appl-type
                       appliction-type: inventions/utility medels/designs-->
<!ELEMENT application-reference (document-id)>
<!ATTLIST application-reference
    appl-type CDATA #REQUIRED
<!--INID 15 48 有关更正(公告/公布)的信息-->
<!-- Correction information -->
<!ELEMENT correction (document-corrected, type-of-correction?, gazette-reference?, text?)>
<!--INID 30 优先权声明数据-->
<!--priority claims data-->
<!ELEMENT priority-claims (priority-claim+)>
<!--优先权声明项-->
<!--Priority claim-->
<!--属性:
                   序号
       sequence
                   优先权种类(本国优先权/部分优先权/外国优先权)-->
       kind
<!--attribute:
       sequence
                   sequence
       kind
                    priority claim kind(national/regional/international)-->
<!ELEMENT priority-claim (country, doc-number?, date, office-of-filing?, (priority-doc-requested |</pre>
priority-doc-attached)?)>
<!ATTLIST priority-claim
    sequence CDATA #REQUIRED
```

```
kind (national | regional | international) #REQUIRED
>
<!--INID 51 国际专利分类数据 -->
<!--ipc data -->
<!ELEMENT classification-ipc (ipc-version, main-classification, further-classification*, (additional-info |</pre>
linked-indexing-code-group | unlinked-indexing-code)*, text?)>
<!--INID 51 国际专利分类数据 -->
<!--ipc data -->
<!--属性:
                       标号-->
               id
<!--attribute:
                        id -->
               id
<!ELEMENT classifications-iper (classification-iper+)>
<!ATTLIST classifications-iper
    id ID #IMPLIED
<!--国际专利分类号-->
<!--ipc-->
<!--属性;
                       标号
            id
            sequence 序号-->
<!--attribute:
            id
                       id
            sequence sequence-->
<!ELEMENT classification-iper ((ipe-version-indicator, classification-level?, section, class, subclass,
main-group?, subgroup?, symbol-position?, classification-value?, action-date?, generating-office?,
classification-status?, classification-data-source?) | text)>
<!ATTLIST classification-iper
    id ID #IMPLIED
    sequence CDATA #IMPLIED
<!--INID 54 标题-->
<!--title-->
<!--属性:
                标号
          id
          lang 语言-->
<!--attribute:
          id
                  id
          lang
                 language-->
<!ELEMENT invention-title (#PCDATA | b | i | u | sup | sub)*>
<!ATTLIST invention-title
    id ID #IMPLIED
    lang CDATA #IMPLIED
```

```
<!--INID 56 引用文献 -->
<!--This tag and elements to be used primary to code data on the title page of
  patents under INID code (56).-->
<!ELEMENT references-cited (text | (citation+, date-search-completed?, date-search-report-mailed?,
place-of-search?, search-report-publication?, searcher?))>
<!--其他参考文献,包括专利文献或非专利文献-->
<!-- Reference to other documents, either patent literature (patcit)
  or non-patent literature (nplcit) -->
<!--属性:
                         文献 id 号建议取值'cit0001', 'cit0002'
             id
             srep-phase 文献引用段落-->
<!--attribute:
                          document id Recommended id = 'cit0001', 'cit0002', etc.
             srep-phase cited phase-->
<!ELEMENT citation ((patcit | nplcit), corresponding-docs*, rel-passage*, category*, rel-claims*,
classification-ipc?, classifications-ipcr?, classification-national?)>
<!ATTLIST citation
    id ID #IMPLIED
    srep-phase CDATA #IMPLIED
<!--INID 62 分案原申请的有关信息-->
<!--Earlier application from which the present document has been divided out.
    (INID 62, ST.32:B620)-->
<!ELEMENT division (relation)>
<!--INID 65 同一申请有关的公告/公布 -->
<!--Previously published document concerning same application.(INID 65)-->
<!ELEMENT cn-related-publication (cn-publication-reference*)>
<!-- 专利事务中的各方
<!--related parties in patent affairs-->
<!ELEMENT cn-parties (cn-applicants, cn-inventors?, correspondence-address?, cn-agents?)>
<!--INID 85 进入国家阶段日期,仅针对 PCT 申请
<!-- Date of PCT articles 22/39 fulfillment. (INID 85, ST.32:B850)-->
<!ELEMENT date-pct-article-22-39-fulfilled (date)>
<!--INID 86
             PCT 国际申请有关信息 -->
<!-- PCT or regional filing information. (INID 86, ST.32:B860)-->
<!ELEMENT pct-or-regional-filing-data (document-id, us-371c124-date?)>
<!ELEMENT us-371c124-date (date)>
<!--INID 87 PCT 国际申请国际公布有关数据-->
<!-- PCT or regional publication information.(INID 87, ST.32:B870)-->
<!ELEMENT pct-or-regional-publishing-data (document-id, gazette-reference?)>
<!--附图信息-->
<!--附图信息-->
<!ELEMENT figures (number-of-drawing-sheets?, number-of-figures?, figure-to-publish?)>
```

<!--摘要附图-->

```
<!-- Figure of the drawings which should accompany the abstract-->
<!ELEMENT figure-to-publish (fig-number+)>
<!--摘要附图编号-->
<!--the number of the figure which should accompany the abstract.-->
<!ELEMENT fig-number (#PCDATA)>
<!--附图个数-->
<!-- Number of figures-->
<!ELEMENT number-of-figures (#PCDATA)>
<!--附图页数-->
<!--number of drawing sheets-->
<!ELEMENT number-of-drawing-sheets (#PCDATA)>
<!--更正类型 -->
<!-- type of correction -->
<!ELEMENT type-of-correction (#PCDATA)>
<!-- 被更正的文献 -->
<!-- Document being corrected.-->
<!ELEMENT document-corrected (document-id)>
<!-- 公报信息
<!-- Information about an office's gazette or bulletin - paper, electronic, etc.
  where, the details of the patent publication are also given.
  Examples WIPO gazette and EPO Bulletin The date is mandatory. -->
<!--属性:
             id
                          标号
                          国别
             country
             lang 语言-->
<!--attribute:
             id
                          id
             country
                          country
             lang language-->
<!ELEMENT gazette-reference (gazette-num, date, text?)>
<!ATTLIST gazette-reference
    id ID #IMPLIED
    country CDATA #IMPLIED
    lang CDATA #IMPLIED
<!-- 公报卷期号 -->
<!-- gazette vol
                  -->
<!ELEMENT gazette-num (#PCDATA)>
<!--丛书引用数据:描述了整个卷期的信息 -->
<!--Serial citation data:
  This describes the volume or issue as a whole and not a particular article within it.-->
<!ELEMENT serial (sertitle, alttitle?, subname?, issue?, imprint?, pubdate?, descrip?, notes?, issn?, isbn?,
pubid?, vid?, ino?, cpyrt?)>
<!--丛书名称-->
```

```
<!--Serial title-->
<!ELEMENT sertitle (#PCDATA)>
<!--丛书的副标题 如 BMJ = British Medical Journal -->
<!--Alternate title for serial; e.g. BMJ = British Medical Journal-->
<!ELEMENT alttitle (#PCDATA)>
<!--除作者外的其他责任者 如编辑、译者-->
<!-- Subordinate responsibility; e.g., editor, translator, etc.-->
<!--属性:
                         除作者外的其他责任者的类型(编辑,译者,其他类型)默认"编辑"
        subname-type
-->
<!--attribute:
                         subname type(editor,translator,other subname type) default editor-->
        subname-type
<!ELEMENT subname (%name group; | addressbook)>
<!ATTLIST subname
    subname-type (editor | translator | other-subname-type) "editor"
<!-- 名称 可以是机构或者自然人的名称 -->
<!-- Name:
  If no distinction or detail can be given.
  Also to be used for: personal (natural person) and corporate (legal entity) names-->
<!--属性:
                      名称类型(法人或自然人)-->
         name-type
<!--attribute:
         name-type
                       name type(legal or natural)-->
<!ELEMENT name (#PCDATA)>
<!ATTLIST name
    name-type (legal | natural) #IMPLIED
<!--称谓 如 Mr., Mrs., Dr. etc -->
<!--Title: e.g., Mr., Mrs., Dr. etc-->
<!ELEMENT prefix (#PCDATA)>
<!--姓-->
<!--last name-->
<!ELEMENT last-name (#PCDATA)>
<!--组织机构名称或者公司名称-->
<!--Organisation name or company name-->
<!ELEMENT orgname (#PCDATA)>
<!-- 名 -->
<!--First or given name(s), initial(s)-->
<!ELEMENT first-name (#PCDATA)>
<!-- 中间名 -->
<!-- Middle name(s) or initial(s)-->
<!ELEMENT middle-name (#PCDATA)>
<!--名字中的后缀如 II, Jr., Dip., Ing., BA -->
```

```
<!--Name suffix (e.g., II, Jr., Dip., Ing., BA, etc.)-->
<!ELEMENT suffix (#PCDATA)>
<!--个体代码-->
<!--Individual id-->
<!ELEMENT iid (#PCDATA)>
<!--职位或者角色如 总裁,主席等-->
<!--Role; e.g., President, Chairman, etc.-->
<!ELEMENT role (#PCDATA)>
<!-- 部门 -->
<!--Department, division, section, etc. name-->
<!ELEMENT department (#PCDATA)>
<!-- 别名 -->
<!--Svnonvm-->
<!ELEMENT synonym (#PCDATA)>
<!--注册号码-->
<!--Registered number-->
<!ELEMENT registered-number (#PCDATA)>
<!--用于联系个人或者组织的地址、名称等信息,
                                                 属性 lang 表示语言-->
<!-- ADDRESSBOOK GROUP:
  Holds name and contact information for individuals/organizations
  The LANG attribute is REQUIRED for certain document types,
  e.g., the JPO PCT Request where names and addresses may be repeated in two
    different languages. If no structure possible use text.-->
<!--属性: id
                 标号
                 语言-->
         lang
<!--attribute:
         id
                 addressbook id
                 language-->
         lang
<!ELEMENT addressbook ((\%name_group;, address, phone*, fax*, email*, url*, ead*, dtext?) | text)>
<!ATTLIST addressbook
    id ID #IMPLIED
    lang CDATA #REQUIRED
<!--地址信息-->
<!-- Address components:
  Address formats differ from country to country
  If no structure possible use text-->
<!ELEMENT address (%address group;)>
<!-- 地址(第一行)-->
<!--Address, first line-->
<!ELEMENT address-1 (#PCDATA)>
<!--地址(第二行)-->
<!--Address, second line-->
<!ELEMENT address-2 (#PCDATA)>
```

- <!-- 地址(第三行)-->
- <!--Address, third line-->
- <!ELEMENT address-3 (#PCDATA)>
- <!--组织的在邮局的编码-->
- <!--Organizational mail code-->
- <!ELEMENT mailcode (#PCDATA)>
- <!-- 邮箱号码-->
- <!--Post Office Box number-->
- <!ELEMENT pobox (#PCDATA)>
- <!--房间号码-->
- <!--Address room; e.g., Room 55B-->
- <!ELEMENT room (#PCDATA)>
- <!--层数-->
- <!--Address floor; e.g., 10th-->
- <!ELEMENT address-floor (#PCDATA)>
- <!--建筑物的信息 如 上海大厦-->
- <!--Building information in address; e.g., Hoffman building-->
- <!ELEMENT building (#PCDATA)>
- <!--街道-->
- <!--Street may contain house number or name-->
- <!ELEMENT street (#PCDATA)>
- <!--城、镇 -->
- <!--City or town name-->
- <!ELEMENT city (#PCDATA)>
- <!--县-->
- <!--County, parish, department, etc (mainly UK, USA)-->
- <!ELEMENT county (#PCDATA)>
- <!--地区、州、省 -->
- <!--Region of country; e.g., state, province, etc.-->
- <!ELEMENT state (#PCDATA)>
- <!--邮政编码-->
- <!--Postal code or zip code-->
- <!ELEMENT postcode (#PCDATA)>
- <!--国别 使用 WIPO ST.3 国别代码, 如 DE, FR, GB, NL, 也包括 EP, WO 等组织代码-->
- <!-- Country: use ST.3 country code; e.g. DE, FR, GB, NL, etc.

Also includes EP, WO -->

- <!ELEMENT country (#PCDATA)>
- <!--无结构文本 -->
- <!--If no structure is possible, enter text (without markup)-->
- <!ELEMENT text (#PCDATA)>
- <!--电话号码-->
- <!--Telephone number-->
- <!ELEMENT phone (#PCDATA)>
- <!--传真号码 -->

```
<!--Fax number-->
<!ELEMENT fax (#PCDATA)>
<!-- 电子邮箱地址 -->
<!--Email address-->
<!ELEMENT email (#PCDATA)>
<!--统一资源定位, URL 如 www.wipo.int -->
<!--Universal Resource Locator; e.g. www.wipo.int-->
<!ELEMENT url (#PCDATA)>
<!--非电子邮箱地址的电子地址-->
<!--Electronic address use for other than email-->
<!ELEMENT ead (#PCDATA)>
<!--说明性文本-->
<!--Descriptive text-->
<!ELEMENT dtext (#PCDATA)>
<!--发行有关信息 如 Annual, 1971-, 1890-1972-->
<!--Issue designation; e.g., Annual, 1971-, 1890-1972-->
<!ELEMENT issue (#PCDATA)>
                    包括出版/初版时间、出版地点、出版商,通常期刊只使用出版日期-->
<!-- 出版有关信息,
<!-- Imprint:
  Publication / creation data
  Place of publication: publisher, date(s) of publication usually only date of
  publication is used for journal citations-->
<!ELEMENT imprint (text | (address?, name, pubdate*))>
<!--非专利引用文献中的公布日期 -->
<!--Publication date used in npl citations-->
<!ELEMENT pubdate (#PCDATA | sdate | edate | time)*>
<!--在 pubdate 中的起始日-->
<!--Start date used in pubdate-->
<!ELEMENT sdate (#PCDATA)>
<!--在 pubdate 中的结束日-->
<!--End date used in pubdate-->
<!ELEMENT edate (#PCDATA)>
<!--时间 , 格式为 HHMM-->
<!--Time; format HHMM-->
<!ELEMENT time (#PCDATA)>
<!--出版介质的描述 - 专利引用文献中通常不用 -->
<!--Physical description - generally NOT used in citations in pats; e.g., v., 27cm-->
<!ELEMENT descrip (#PCDATA)>
<!--期刊的注释-->
<!-- Notes about the journal; e.g. Continues Journal of XYZ 1910-1998, published in
  French and English, etc.-->
<!ELEMENT notes (#PCDATA)>
<!--国际标准期刊号-->
```

<!--International Standard Serial Number-->

```
<!ELEMENT issn (#PCDATA)>
<!--国际标准图书号-->
<!--International Standard Book Number-->
<!ELEMENT isbn (#PCDATA)>
<!--出版商的唯一标识-->
<!--Publisher's unique id-->
<!ELEMENT pubid (#PCDATA)>
<!--卷号-->
<!--Volume id/number-->
<!ELEMENT vid (#PCDATA)>
<!--发行号-->
<!--Issue number-->
<!ELEMENT ino (#PCDATA)>
<!--版权信息-->
<!-- Copyright info. Copyright of publisher of serial-->
<!ELEMENT cpyrt (#PCDATA)>
<!--文献标识. 见 WIPO ST.14-->
<!-- Document identification refers to patents (and patent applications) only.
 See WIPO ST.14 -->
<!--属性:
        lang 使用的语言-->
<!--attribute:
                language-->
        lang
<!ELEMENT document-id (country, doc-number, kind?, name?, date?)>
<!ATTLIST document-id
    lang CDATA #IMPLIED
<!-- 文献号-->
<!--The number of the referenced patent (or application) document-->
<!ELEMENT doc-number (#PCDATA)>
<!--文献种类 如 发明专利公布-->
<!--Document kind code; e.g., A1(INID 13, ST.32:B130) -->
<!ELEMENT kind (#PCDATA)>
<!--日期 建议的格式为 YYYYMMDD-->
<!--Date: components of a date. Format: YYYYMMDD-->
<!ELEMENT date (#PCDATA)>
<!--早期申请的提交局-->
<!-- Where the earlier application is an ARIPO application, indicate at least one
  country party to the PARIS convention for the protection of industrial property
  or one member of the WTO for which that earlier application was filed.-->
<!ELEMENT office-of-filing ((region, country?) | country)>
<!--地区、国家-->
<!-- The region for which protection or exclusion (depending upon context) is desired.-->
<!ELEMENT region (country)>
```

```
<!--要求接受局向国际局递交早期申请优先权证明和文件(用作标记的空元素)仅对 PCT 申请-->
<!-- The receiving office is requested to prepare and transmit to the IB a certified
  copy of the earlier application-->
<!ELEMENT priority-doc-requested EMPTY>
<!--优先权文件和申请一同递交(用作标记的空元素)-->
<!-- The priority document is attached to the application-->
<!ELEMENT priority-doc-attached EMPTY>
<!--分类代码-->
<!-- Classification code; e.g., ipc, dewey etc. -->
<!ELEMENT class (#PCDATA)>
<!--国际专利分类数据-->
<!-- International Patent Classification (IPC) data; (INID 51, ST.32:B510)-->
<!ELEMENT classification-data-source (#PCDATA)>
<!--分类的状态: 初始分类,二次分类,多种分类,删除的分类-->
<!--Possible status: original-classification, reclassified, various-classification,
  deleted-classification-->
<!ELEMENT classification-status (#PCDATA)>
<!--生成的局-->
<!--generated office -->
<!ELEMENT generating-office (country)>
<!--有效日-->
<!--action date-->
<!ELEMENT action-date (date)>
<!--分类可能的值:发明,非发明-->
<!-- Possible values: invention, non-invention -->
<!ELEMENT classification-value (#PCDATA)>
<!--符号位置-->
<!--Possible positions: first-symbol-position, later-symbol-position.-->
<!ELEMENT symbol-position (#PCDATA)>
<!--小组-->
<!--subgroup-->
<!ELEMENT subgroup (#PCDATA)>
<!-- 主组-->
<!--main groupp-->
<!ELEMENT main-group (#PCDATA)>
<!--子类-->
<!--subclass-->
<!ELEMENT subclass (#PCDATA)>
<!-- 节-->
<!--section-->
<!ELEMENT section (#PCDATA)>
<!--分类级别-->
<!-- Levels: ipcr-advanced, ipcr-core
```

<!ELEMENT classification-level (#PCDATA)>

```
<!--版本日期-->
<!--ipc version indicator date -->
<!ELEMENT ipc-version-indicator (date)>
<!--粗体文本-->
<!--Bold formatting for text-->
<!ELEMENT b (#PCDATA | i | u | smallcaps)*>
<!--斜体文本-->
<!--Italic formatting for text-->
<!ELEMENT i (#PCDATA | b | u | smallcaps)*>
<!--下划线-->
<!-- Underscore: style - single is default-->
<!--属性:
                  单线,双线,破折线,点线-->
          式样
<!--attribute:
          style single, double, dash, dots-->
<!ELEMENT u (#PCDATA | b | i | smallcaps)*>
<!ATTLIST u
    style (single | double | dash | dots) "single"
<!--小体大写字母-->
<!--Small capitals-->
<!ELEMENT smallcaps (#PCDATA | b | u | i)*>
<!--上标 -->
<!--Superscripted text-->
<!ELEMENT sup (#PCDATA | b | u | i)*>
<!--下标-->
<!--Subscripted text-->
<!ELEMENT sub (#PCDATA | b | u | i)*>
<!--专利引用文献-->
<!--PATENT CITATIONS:
    (ST.32:B561)
  Patent Citation within abstract, description or claims.
  For patent citations within Search Report see Search Report DTD
  Notes:
    Tags arranged according to WIPO ST.14 order.
    This can be free text data without any structure (text).
  Example:
    <patcit id='pcit0001' dnum='US4793675A' dnum-type='publication number'>
      <document-id>
         <country>US</country>
         <doc-number>4793675</doc-number>
         <kind>A</kind>
```

```
<name>Handa</name>
        <date>19881227</date>
      </document-id>
    </patcit>
  Note:
    It is NOT expected that the applicant will create the tagged data
    - it could be generated from a 'pull down' data entry form
    or generated from internal SR databases-->
<!--属性:
                    引用文献 id 号如 pcit0001, pcit0002,等
        id
                     引用文献编号.如 0001,0002,等
        num
                     引用文献完整编号,如 "US5401234A";
        dnum
        url
                   专利文献的网络连接
        file
                   引用文献的文件名
        dnum-type 文献编号类型(申请号,公告号等)-->
<!--Attributes (recommended):
        id
                   pcit0001, pcit0002, etc.
                     0001, 0002, etc.
        num
        dnum
                     use full number as one string, eg, "US5401234A";
        url
                   web lind to the patent citations
        file
                   file name eg. if stored on local systems
        dnum-type type of document number(e.g., application number, publication number)-->
<!ELEMENT patcit (text | (document-id, rel-passage*))>
<!ATTLIST patcit
    id ID #IMPLIED
    dnum CDATA #IMPLIED
    file CDATA #IMPLIED
    url CDATA #IMPLIED
    num CDATA #REQUIRED
    dnum-type CDATA #IMPLIED
<!--专利引用文献中相关的若干段落-->
<!--Relevant passage group within patent; most used in search reports
  - use text in abstract, description and claims-->
<!ELEMENT rel-passage (text | (passage+, category?, rel-claims?)+)>
<!--专利引用文献中的段-->
<!--Passage within the cited patent literature-->
<!ELEMENT passage (#PCDATA)>
<!--种类 -->
<!--Category -->
<!ELEMENT category (#PCDATA)>
<!--相关的权利要求项-->
<!--Relevant claims-->
```

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

#### <!--非专利引用文献

注意:

非专利文献的引用也可以全部用无结构的文本来描述, 但是建议不要这样做,

建议采用以下根据 ST.14 和 IDO690 标准定义的高度格式化的描述方式。

这部分 DTD 使用了许多不同来源的元素名、DTD 结构和引用,包括:

AACR2 / MARC ISO 12083 - 电子手稿标记 DTD

美国出版联盟(Association of American Publishers —— AAP) Z39.59 DTD

欧洲 SGML 工作组(European Working Group for SGML —— EWS) MAJOUR DTD

SuperJournal 全文 DTD www.superjournal.ac.uk/sj

Elsevier DTD

(美) 联机医学分析和检索系统 dtd Medline DTD (NLM)-->

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

Notes:

This can be free text data without any structure (#PCDATA) which is NOT recommended

or it can be highly structured data which is marked up according to ST.14 and ISO 690 layout;

This part of the DTD has used many different sources for element names and DTD structure and reference:

AACR2 / MARC

ISO 12083 - Electronic manuscript prep. and markup. DTD

Association of American Publishers (AAP) Z39.59 DTD

European Working Group for SGML (EWS) MAJOUR DTD

SuperJournal Full Article DTD

www.superjournal.ac.uk/sj

Elsevier DTD

Medline DTD (NLM) -->

#### <!--属性(建议):

id 引用非专利文献的 id 号如 ncit0001, ncit0002,

num 非专利文献编号如 0001, 0002

npl-type 非专利文献类型

- A- 不属于特殊类型的摘要引用
  - B 书籍引用
  - I- 生物摘要引用
  - C- 化学摘要引用
  - E-数据库引用
  - D- 德文特引用
  - P- 非专利文献中引用的专利
  - J- 日本引用的专利摘要
  - S-期刊杂志引用
  - W- 互联网检索引用

```
连接到该文献的 URL-->
        url
<!--Attributes (recommended):
                     ncit0001, ncit0002, etc
                      0001,0002
        num
                    The TYPE of citation is office specific (recommended):;
        npltype
           A - Abstract citation of no specific kind
           B - Book citation
           I - Bilogical abstract citation
           C - Chemical abstracts citation
           E - Database citation
           D - Derwent citation
           P - Patent cited within NPL group
           J - Patent Abstracts of Japan citation (REC 067)
           S - Serial / Journal / Periodical citation
           W - World Wide Web / Internet search citation
                     the type of medium e.g., CD (CD-ROM), MT (Magnetic Tape), DISK, ONLINE
       medium
       file
                  file name on local systems eg. XP number in EPO
                   where possible give full web link to document-->
       url
<!ELEMENT nplcit (text | (article | book | online | othercit)*)>
<!ATTLIST nplcit
    id ID #IMPLIED
    num CDATA #REQUIRED
    npl-type CDATA #IMPLIED
    medium CDATA #IMPLIED
    file CDATA #IMPLIED
    url CDATA #IMPLIED
<!--论文-->
<!-- Article citations within a 'host' document
  After patent citations the most common citations are articles within serials
  (periodicals, magazines), books and electronic (eg. internet) sources.
  This is a very complex and varied area to standardise. The tag set below is drawn
  from a number of sources as is the order of the tags (which in any case can be
  changed depending on the stylesheet used).;
  The order of tags is that of WIPO ST.14 / ISO 690 layout.
    DROP, J.G. Integrated Circuit Personalization at the Module Level. IBM Tech.
    Dis. Bull. October 1974, Vol. 17, No. 5, p. 1344 and 1345.
    [XPnnnnnnnnn].
       <nplcit id='ncit1' num='0012' type='S' file='XP1234456'>
         <article>
           <author>
              <name>DROP, J.G.</name>
            </author>
```

```
<atl>Integrated Circuit Personalization at the Module Level</atl>
           <serial>
           <sertitle>IBM Tech. Dis. Bull.
           <pubdate>19741000</pubdate>
           <vid>17</vid>
           <ino>5</ino>
           </serial>
           <location>
              <pp>1344 and 1345</pp>
           </location>
           <refno id='XP1'>XP1234456</refno>
         </article>
       </nplcit>
  Note: it is NOT expected that the applicant will create the tagged data
  - it can be generated from a 'pull down' data entry form (eg. in Word) or
    generated from internal SR databases-->
<!ELEMENT article (text | (author*, atl?, subname?, (serial | book), absno?, location?, class*, keyword*,
cpyrt?, artid?, refno*))>
<!--
      作者
                 -->
<!-- Author
  Prime responsibility for the work
  there is no distinguishing between personal and corporate authors
  <author> followed by name or addressbook information
  use the ID attribute if, for example, there is a need to distinguish between
  multiple authors.
  Can also include affiliation details-->
<!--属性:
              作者 id 号如: auth0001, auth0002 等-->
       id
<!--attribute:
              auth0001, auth0002, etc-->
       id
<!ELEMENT author (%name group; | addressbook)>
<!ATTLIST author
    id ID #IMPLIED
<!-- 论文标题 -->
<!--Article title-->
<!ELEMENT atl (#PCDATA)>
<!-- 书籍的描述 -->
<!-- Book citation
  In the order specified by WIPO ST.14 and ISO 690 and AACR2 rules for layout
  WALTON, Herrmann. Microwave quantum theory.
  London: Sweet and Maxwell, 1973. ISBN 0123456789.
  Vol.2, p. 138 to 192.
    <nplcit id='ncit12' num='0013' type='b'>
```

```
<book>
         <author>
           <name>WALTON, Herrman</name>
         </author>
         <book-title>Microwave quantum theory</book-title>
         <imprint>
           <address>
             <text>London</text>
           </address>
           <name>Sweet and Maxwell</name>
           <pubdate>19730000</pubdate>
         </imprint>
         <location>
           <pp>138 to 192</pp>
         </location>
         <isbn>0-1234-568-9</isbn>
      </book>
    </nplcit> -->
<!ELEMENT book (text | (author*, (book-title+ | conference), (subtitle?, subname*, edition?, imprint?,
descrip?, series?, absno?, location*, isbn*, pubid?, vid?, bookno?, notes?, class*, keyword*, cpyrt?,
refno*)))>
<!--
        书籍的标题
<!--The title of the cited book-->
<!ELEMENT book-title (#PCDATA)>
<!-- 会议的有关信息 -->
<!-- CONFERENCE GROUP / CITATION
  There is no standard way of citing conference proceedings; date of the conf. may
  come before or after place, for example. The tags are specified in a set order
  where it is not possible or correct then simply use <text>-->
<!ELEMENT conference (text | (conftitle, date?, confno?, confplace?, confsponsor*))>
<!--会议名称-->
<!--Conference title-->
<!ELEMENT conftitle (#PCDATA)>
<!--会议代号-->
<!--Conference number-->
<!ELEMENT confno (#PCDATA)>
<!--会议地点-->
<!--Conference place-->
<!ELEMENT confplace (#PCDATA | address)*>
<!--会议发起者-->
<!--conference sponsor-->
<!ELEMENT confsponsor (#PCDATA | addressbook)*>
<!--书籍的副标题-->
<!--Book subtitle-->
```

```
<!ELEMENT subtitle (#PCDATA)>
<!--编辑说明-->
<!--Edition statement-->
<!ELEMENT edition (#PCDATA)>
<!--丛书说明-->
<!--Series statement-->
<!ELEMENT series (text | (mst, msn?, issn?))>
<!--专题论文集名称-->
<!--Monographic series title-->
<!ELEMENT mst (#PCDATA)>
<!--专题论文集编号 -->
<!--Monographic series number-->
<!ELEMENT msn (#PCDATA)>
<!--摘要编号-->
<!--Abstract number-->
<!ELEMENT absno (#PCDATA)>
<!--引用文献中的位置描述-->
<!--Location within the cited work-->
<!ELEMENT location (text | (serpart?, sersect?, chapter?, pp?, column?, para?, line?))>
<!--连续的部分-->
<!--Part within a serial-->
<!ELEMENT serpart (#PCDATA)>
<!--连续的节-->
<!--Serial section-->
<!ELEMENT sersect (#PCDATA)>
<!--章-->
<!--Chapter; e.g., in a book. Example: Chapter 2-->
<!ELEMENT chapter (#PCDATA)>
<!-- 页码(范围) -->
<!--Cited document page numbers-->
<!ELEMENT pp (#PCDATA | ppf | ppl)*>
<!--开始页-->
<!--Cited document page, first-->
<!ELEMENT ppf (#PCDATA)>
<!--结束页-->
<!--Cited document page, last-->
<!ELEMENT ppl (#PCDATA)>
<!--栏-->
<!--Cited document column numbers-->
<!ELEMENT column (#PCDATA | colf | coll)*>
<!--开始栏-->
<!--Cited document column, first-->
<!ELEMENT colf (#PCDATA)>
```

<!--结束栏-->

```
<!--Cited document column, last-->
<!ELEMENT coll (#PCDATA)>
<!--文献内的段-->
<!--Referenced paragraph within cited work-->
<!ELEMENT para (#PCDATA | paraf | paral)*>
<!--开始段-->
<!--Cited paragraph, first-->
<!ELEMENT paraf (#PCDATA)>
<!--结束段 -->
<!--cited paragraph,last-->
<!ELEMENT paral (#PCDATA)>
<!--文献内的行(范围) -->
<!--Referenced line within cited work-->
<!ELEMENT line (#PCDATA | linef | linel)*>
<!--开始行-->
<!--Cited document line, first-->
<!ELEMENT linef (#PCDATA)>
<!--结束行-->
<!--Cited document line, last-->
<!ELEMENT linel (#PCDATA)>
<!--书号-->
<!--Book number-->
<!ELEMENT bookno (#PCDATA)>
<!--关键词-->
<!--Keyword; e.g., from a Thesaurus or class. scheme-->
<!ELEMENT keyword (#PCDATA)>
<!--一般参考编号 -->
<!--Reference number (general); for the EPO this is the XP number-->
<!--属性:
           id 号-->
      id
<!--attribute:
            reference number id-->
      id
<!ELEMENT refno (#PCDATA)>
<!ATTLIST refno
    id ID #IMPLIED
<!--论文出版者给论文的唯一编号-->
<!--Article unique ID - assigned by a publisher to an article-->
<!ELEMENT artid (#PCDATA)>
<!--网上电子文件有关信息-->
<!-- Online citation
    Revised according to ISO-690-2 - Electronic documents and parts thereof.
    Please refer to this standard for definitions and examples.
```

See: http://www.nlc-bnc.ca/iso/tc46sc9/standard/690-2e.htm#Contents

```
The tagging in fact is a mixture of article and book tags together with
  specific electronic source tags.
  'Online' is taken to mean any kind of electronic documentation:
    databases, internet, CD-Roms, DVD, email, etc
 EXAMPLES:;
  Kirk-Othmer Encyclopedia of Chemical Technology [online].
  3rd ed. New York: John Wiley, 1984 [cited 3 January 1990].
  Available from: DIALOG Information Services, Palo Alto (Calif.).
    <nplcit id='ncit1' num='0001' type='E' medium='online'>
       <online>
         <online-title>Kirk-Othmer Encyclopedia of Chemical Technology
         </online-title>
         <edition>3rd ed.</edition>
         <imprint>
           <address>
              <text>New York</text>
           </address>
           <name>John Wiley</name>
           <pubdate>19840000</pubdate>
         </imprint>
         <avail>dialog information services, palo alto (calif.).</avail>
         <datecit>
            <date>19900103</date>
         </datecit>
       </online>
    </nplcit>
* Article on Internet:
  Clark, Carol. On the Threshold of a Brave New World.
  In Blueprint of the Body [online].
  CNN.com, 2000. [cited 24 August 2000;10:25 EST]. In-depth specials.
  Available from: [http://www.cnn.com/SPECIALS/2000/genome/story/overview/]
    <nplcit id='ncit1' num='0002' type='E' medium='online'>
       <online>
         <author>
           <name>Clark, Carol</name>
         </author>
         <online-title>On the Threshold of a Brave New World</online-title>
         <imprint>
            <name>CNN.com, 2000</name>
         </imprint>
         <series>
           <text>In-depth specials</text>
```

```
</series>
           <avail>http://www.cnn.com/SPECIALS/2000/genome/story/</avail>
           <datecit>
              <date>20000824; 10:25 est</date>
           </datecit>
         </online>
       </nplcit>
  * Personal communication (e-mail)
     Thacker, Jane. MPEG-21 project stream on digital item identification [online].
    Message to: [iso.tc46.sc9@nlc-bnc.ca]. 3 October 2000; 13:33 EST [cited 6
    October 2000; 13:10 EST].
    Message-ID: [002f01c02d60$051a64a0$22a2580c@vaio]. Personal communication.
       <nplcit id='ncit3' num='0003' type='E' medium='online'>
         <online>
           <author>
              <name>Thacker, Jane</name>
           </author>
           <online-title>MPEG-21 project stream on digital item identification
           </online-title>
           <subname>
              <name>Message to: <iso.tc46.sc9@nlc-bnc.ca></name>
           </subname>
           <pubdate>3 October 2000; 13:33 EST</pubdate>
           <notes>Personal communication</notes>
           <avail>Message-ID: <002f01c02d60$051a64a0$22a2580c@vaio></avail>
           <datecit><date>6 october 2000; 13:10 EST</date></datecit>
         </online>
      </nplcit> -->
<!ELEMENT online (text | (author*, online-title*, hosttitle?, subname?, edition?, (serial | book)?, imprint?,
pubdate?, history?, series?, hostno?, location?, notes?, avail, class*, keyword*, cpyrt?, issn?, isbn?, datecit?,
srchterm*, srchdate?, refno*))>
<!--电子资源标题-->
<!--The title of the electronic resource-->
<!ELEMENT online-title (#PCDATA)>
<!--数据库或者文档集标题 -->
<!--Title of the host document/database-->
<!ELEMENT hosttitle (#PCDATA)>
<!--论文的历史信息-->
<!--History of the article (not serial)-->
<!ELEMENT history (text | (received | accepted | revised | misc))>
<!--论文收到目-->
<!--Date article was received-->
<!ELEMENT received (date)>
<!--论文被采纳日-->
```

```
<!--Date article was accepted-->
<!ELEMENT accepted (date)>
<!--论文修订日-->
<!--Date article was revised-->
<!ELEMENT revised (date)>
<!--论文的其他历史信息-->
<!--Miscellaneous information relating to the history of the article; see ISO 12083-->
<!ELEMENT misc (#PCDATA | date)*>
<!--在文档集中的标号-->
<!--Numeration within host document-->
<!ELEMENT hostno (#PCDATA)>
<!--获取途径,需要使用 如 URL, 联机数据库, FTP 地址等,-->
<!-- Availability and access - REQUIRED use for URL, online database, ftp address,
  email, etc.;
  e.g., Available from Internet: http://www.epoline.org
    Available from DIALOG Information Systems, Palo Alto (Calif.)-->
<!ELEMENT avail (#PCDATA)>
<!--引用日期-->
<!-- Date cited - date on which the citation was cited.
  May be different from srchdate below-->
<!ELEMENT datecit (date)>
<!--检索项-->
<!--Search terms-->
<!ELEMENT srchterm (#PCDATA)>
<!--检索/查询目-->
<!--Date of search/retrieval YYYYMMDD-->
<!ELEMENT srchdate (date)>
<!--其他引用文献-->
<!--Other citations - free form-->
<!ELEMENT othercit (#PCDATA)>
<!--完成检索报告日期-->
<!--Date of completion of search report.-->
<!ELEMENT date-search-completed (date)>
<!--寄出检索报告日-->
<!--Date of mailing of search report.-->
<!ELEMENT date-search-report-mailed (date)>
<!--检索地点-->
<!--Place of search - international search authority.-->
<!ELEMENT place-of-search (country)>
<!--检索报告公布信息-->
<!--search report publication information -->
<!ELEMENT search-report-publication (document-id+)>
<!--完成检索报告的审查员-->
```

<!--Search report examiner.-->

```
<!ELEMENT searcher (addressbook)>
<!--IPC 版本号-->
<!--ipc version-->
<!ELEMENT ipc-version (#PCDATA)>
<!--主分类-->
<!--Main classification.-->
<!ELEMENT main-classification (#PCDATA)>
<!--其他分类-->
<!--Further/secondary classification-->
<!ELEMENT further-classification (#PCDATA)>
<!--附加信息-->
<!--Additional information.-->
<!ELEMENT additional-info (#PCDATA)>
<!--引得码-->
<!--Linked indexing code.-->
<!ELEMENT linked-indexing-code-group (main-linked-indexing-code, sub-linked-indexing-code+)>
<!--主连接的引得码-->
<!--Main Linked Indexing Code.-->
<!ELEMENT main-linked-indexing-code (#PCDATA)>
<!--子连接的引得码-->
<!--sub/further linked indexing code-->
<!ELEMENT sub-linked-indexing-code (#PCDATA)>
<!--非连接的引得码-->
<!--Unlinked indexing code.-->
<!ELEMENT unlinked-indexing-code (#PCDATA)>
<!--专利相关文献-->
<!--Patent family and corresponding-docs-->
<!ELEMENT corresponding-docs (document-id | nplcit)*>
<!--国内国际分类-->
<!--Domestic or national classification.-->
<!ELEMENT classification-national (country, edition?, main-classification, further-classification*,
(additional-info | linked-indexing-code-group | unlinked-indexing-code)*, text?)>
<!ATTLIST classification-national
    id ID #IMPLIED
<!--INID 66 SIPO 的国内优先权-->
<!--Document for which this is a substitute. (INID 66)-->
<!ELEMENT substitution (relation)>
<!--INID 66 SIPO 的国内优先权声明-->
<!--SIPO domestic priority claim
                               (INID 66)-->
<!ELEMENT cn-domestic-priority-claim (substitution)>
<!--INID 66 SIPO 的国内优先权声明数据-->
<!--SIPO domestic priority claim data
                                     (INID 66)-->
<!ELEMENT cn-domestic-priority-claims (cn-domestic-priority-claim+)>
```

```
<!--文献关系-->
<!--docoment relation-->
<!ELEMENT relation (parent-doc?, child-doc*)>
<!--父文献-->
<!--Describes parent document.-->
<!ELEMENT parent-doc (document-id, parent-status?, parent-grant-document?, parent-pct-document?)>
<!--父 PCT 文献-->
<!--parent pct document 文献-->
<!ELEMENT parent-pct-document (document-id)>
<!--父文献状态-->
<!--parent document status-->
<!ELEMENT parent-status (#PCDATA)>
<!--父文献的授权文献-->
<!--parent granted document-->
<!ELEMENT parent-grant-document (document-id)>
<!--子文献-->
<!--child document-->
<!ELEMENT child-doc (document-id)>
<!--INID 71 申请人数据 -->
<!--INID 71applicants information-->
<!--属性:
                            代表人-->
       cn-representative-is
<!--attribute:
       cn-representative-is
                            applicant's representative-->
<!ELEMENT cn-applicants (cn-applicant+)>
<!ATTLIST cn-applicants
    cn-representative-is CDATA #REQUIRED
<!-- INID 71 申请人 -->
<!--INID 71 applicant-->
<!-- 属性:
                   申请人序号-->
       sequence
<!-- attribute:
                     applicant sequence-->
       sequence
<!ELEMENT cn-applicant ( (%name_group; | addressbook+) , nationality?, residence? )>
<!ATTLIST cn-applicant
    sequence CDATA #REQUIRED
>
<!--国籍-->
<!--Country of nationality-->
<!ELEMENT nationality (country)>
<!--居住国-->
<!--Country of residence-->
<!ELEMENT residence (country)>
```

```
<!--INID 72 发明人数据-->
<!--INID 72 inventors information -->
<!ELEMENT cn-inventors (cn-inventor)*>
<!--发明人-->
<!--inventor-->
<!-- 属性:
                   发明人序号
       sequence
       cn-not-to-be-published-request-by-inventor 发明人要求不公开其姓名-->
<!-- attribute:
                    inventor sequence
       sequence
       cn-not-to-be-published-request-by-inventor not to be published request by inventor-->
<!ELEMENT cn-inventor (%name group; | addressbook+) >
<!ATTLIST cn-inventor
    sequence CDATA #REQUIRED
    cn-not-to-be-published-request-by-inventor (yes | no) #REQUIRED
<!--联系人地址、名称 -->
<!--Address used for general correspondence-->
<!ELEMENT correspondence-address (customer-number? | addressbook+)>
<!--专利局赋予的代理机构代码-->
<!--Customer number for agents by office-->
<!ELEMENT customer-number (#PCDATA)>
<!--INID 74 专利代理有关信息-->
<!--INID 74 Information regarding Agents or common representatives-->
<!ELEMENT cn-agents (customer-number | cn-agent+)>
<!--代理人-->
<!--Agent or common representative -->
<!--属性:
                    序号
        sequence
                   类型 (代理人/律师/一般委托人) -->
        rep-type
<!--attribute:
        sequence
                    agent sequence
                   representative type(agent/attorney/common-representative)-->
        rep-type
<!ELEMENT cn-agent (cn-agency, (%name group; | addressbook+) ) >
<!ATTLIST cn-agent
    sequence CDATA #REQUIRED
    rep-type (agent | attorney | common-representative) #REQUIRED
<!--专利代理机构-->
<!--agency-->
<!ELEMENT cn-agency (%name group; | addressbook+)>
<!--专利申请体(专利申请的主体)-->
<!--application body-->
<!--属性:
```

```
申请所使用的语言 - 使用 ISO639 语言代码
      lang
      dtd-version
                        dtd 版本号
      file
                    整个申请的文件名
                        该申请的唯一id-可以使用文件名
      id
                    申请的状态( 值 n 表示新申请)
      status
                        申请所在的国家 - 使用 WIPO ST.3 代码
      country
                        申请人或代理人对申请的编码
      file-reference-id
<!--attribute:
      lang
                        application language
      dtd-version
                        dtd version
      file
                    application file name
      id
                        application id
                    application status
      status
      country
                        application country-use WIPO ST.3 code
      file-reference-id
                        file reference id-->
<!ELEMENT application-body (doc-page+ | (description, claims, abstract?, drawings?))>
<!ATTLIST application-body
    lang CDATA #REQUIRED
    dtd-version CDATA #IMPLIED
    file CDATA #IMPLIED
    status CDATA #IMPLIED
    id ID #IMPLIED
    country CDATA #REQUIRED
    file-reference-id CDATA #IMPLIED
<!--一幅图形/图像,它对于理解该申请是必须的。 -->
<!--A drawing (figure), necessary for the understanding of the invention-->
<!--属性:
        id
                     标号建议取值为 f01, f02 等
                       图形/图像图像编号
        num
        figure-labels 图像标签-->
<!--attribute:
        id
                        figure id Recommended id = f0001, f0002, etc.
                         figure number
        num
        figure-labels
                     figure labels-->
<!ELEMENT figure (img)>
<!ATTLIST figure
    id ID #IMPLIED
    num CDATA #REQUIRED
    figure-labels CDATA #IMPLIED
<!--摘要中"该发明针对的问题的解决方案"部分-->
<!--The solution to the alleged problem that the invention purports to solve.-->
<!--属性:
```

```
id
                标号建议取值为"abss"
<!--attribute:
                Recommended id = 'abss'-->
       id
<!ELEMENT abst-solution (p+)>
<!ATTLIST abst-solution
    id ID #IMPLIED
<!--摘要中"该发明针对的问题"部分-->
<!--The alleged problem that the invention purports to solve-->
<!-- 属性:
               发明针对问题 id 号建议取值为"absp" -->
       id
<!--attribute:
       id
                Recommended id = 'absp'-->
<!ELEMENT abst-problem (p+)>
<!ATTLIST abst-problem
    id ID #IMPLIED
<!--一个权利要求-->
<!--Defines the matter for which protection is sought
  Recommended id values
    If parent element is claims and there is only ONE set of claims:
      id = c0001, c0002, etc.; num = 0001, 0002, etc.
    If parent element is amended-claims and there is only ONE set then;
      id = ac0001, ac0002, etc.; num = 0001, 0002, etc.
    If parent element is claims and there are MULTIPLE sets of claims then:
      id = c01.0001, c01.0002, etc.; num = 0001, 0002, etc.
      id = c02.0001, c02.0002, etc.; num = 0001, 0002, etc.
    If parent element is amended-claims and there are MULTIPLE sets of
    amended-claims then:
      id = ac01.0001, ac01.0002, etc.; num = 0001, 0002, etc. -->
<!--属性:
        id
                     标号,建议取值为 c01, c02 等
    num
                  权利要求编号,建议取值为001,002等
    claim-tpye 权利要求类型-->
<!--attribute:
        id
                     id
                      claim number
        num
        claim-type claim type -->
<!ELEMENT claim (claim-text+)>
<!ATTLIST claim
    id ID #IMPLIED
    num CDATA #REQUIRED
    claim-type CDATA #IMPLIED
```

```
对一个权项的引用 -->
<!--Reference to a claim-->
<!--属性:
                 引用的权项的标号-->
         idref
<!--attribute:
                 reference id-->
         idref
<!ELEMENT claim-ref (#PCDATA)>
<!ATTLIST claim-ref
    idref IDREFS #REQUIRED
>
<!-- 符合 ST.25 标准的文本形式的序列表、 属性 id 建议取值为'segt' -->
<!--Sequence listing free text
  WIPO ST.25:
  "36. Where the sequence listing part of the description contains free text,
       any such free text shall be repeated in the main part of the description
       in the language thereof.
       It is recommended that the free text in the language of the main part of the
       description be put in a specific section of the description called "Sequence
       Listing Free Text".
  Recommended id = 'seqt'
-->
<!--属性:
      id
              标号建议取值为'seqt' -->
<!--attribute:
              Recommended id = 'seqt'-->
<!ELEMENT sequence-list-text (heading*, p+)+>
<!ATTLIST sequence-list-text
    id ID #IMPLIED
>
<!-- 说明书中"工业实用性"的部分, 属性 id 建议取值为"inap"
<!-- For purposes of the international preliminary examination,
  a claimed invention shall be considered industrially applicable if, according to
  its nature, it can be made or used (in the technological sense) in any kind of
  industry.
  Recommended id = 'inap'
-->
<!--属性:
                标号建议取值为"inap" -->
       id
<!--attribute:
       id
                Recommended id = 'inap'-->
<!ELEMENT industrial-applicability (heading*, p+)+>
<!ATTLIST industrial-applicability
    id ID #IMPLIED
```

```
<!-- 说明书中"发明的应用模式或应用方法"的部分,属性 id 建议取值为"mode"
<!--The description shall...indicate explicitly, when it is not
  obvious from the description or nature of the invention, the way in which the
  invention is capable of exploitation in industry and the way in which it can be
  made and used...
  Recommended id = 'mode'-->
<!-- 属性:
                标号建议取值为"mode"
        mode-num 模式编号 -->
<!--attribute:
                Recommended id = 'mode'
        mode-num mode number-->
<!ELEMENT mode-for-invention (heading*, p+)+>
<!ATTLIST mode-for-invention
    id ID #IMPLIED
    mode-num CDATA #IMPLIED
<!-- 说明书中"发明的最佳应用模式或应用方法"的部分,属性 id 建议取值为"bmod"
                                                                                   -->
<!-- The best mode contemplated by the applicant for carrying out the invention
  claimed.
  Recommended id = 'bmod'-->
<!--属性:
                标号建议取值为"bmod"
       id
<!--attribute:
                 Recommended id = 'bmod'-->
<!ELEMENT best-mode (heading*, p+)+>
<!ATTLIST best-mode
    id ID #IMPLIED
<!--说明书中"发明的详细说明"部分,通常应当包括下列主题:发明针对的技术问题,发明提出的
解决方案,发明的先进性 -->
<!--Disclosure of the invention with sub-headings:
    technical problem;
    technical solution;
    advantageous effects (of the invention);
    Recommended id = 'disc' -->
<!--属性:
                标号建议取值为 "disc"
        id
<!--attribute:
                Recommended id = 'disc'-->
<!ELEMENT disclosure ((tech-problem | tech-solution | advantageous-effects)* | (heading*, p+)+)>
<!ATTLIST disclosure
    id ID #IMPLIED
```

```
属性 id 建议取值为 "adve" -->
<!--发明的先进性,
<!-- advantageous effects of the invention (PCT Rule 5.1(a)(iii)
  Recommended id = 'adve'-->
<!--属性:
              标号建议取值为"adve"
     id
<!--attribute:
              Recommended id = 'adve'-->
<!ELEMENT advantageous-effects (heading*, p+)+>
<!ATTLIST advantageous-effects
    id ID #IMPLIED
<!--发明的技术解决方案-->
  The solution to the problem that the invention purports to solve. -->
<!--属性:
               标号-->
<!--attribute:
               technology solution id-->
<!ELEMENT tech-solution (heading*, p+)+>
<!ATTLIST tech-solution
    id ID #IMPLIED
<!-- 发明针对的技术问题 -->
<!--The problem the invention purports to solve -->
<!--属性:
               标号-->
       id
<!--attribute:
               technology problem id-->
<!ELEMENT tech-problem (heading*, p+)+>
<!ATTLIST tech-problem
    id ID #IMPLIED
<!--说明书中"图像的简要说明"部分,
<!--Brief description of the drawings
  Recommended id = 'desd'-->
<!--属性:
               标号建议取值为"desd" -->
       id
<!--attribute:
               Recommended id = 'desd'-->
<!ELEMENT description-of-drawings (heading*, p+)+>
<!ATTLIST description-of-drawings
    id ID #IMPLIED
```

```
<!--说明书中"发明的背景技术"部分, 属性 id 建议取值为"bart"
<!-- Background art, background of the invention.
  Recommended id = 'bart'-->
<!--属性:
               标号建议取值为"bart" -->
       id
<!--attribute:
               Recommended id = 'bart'-->
       id
<!ELEMENT background-art (heading*, p+)+>
<!ATTLIST background-art
    id ID #IMPLIED
<!--说明书中"发明的技术领域"部分 -->
      The description shall first state the title of the invention as appearing
       in the request and shall:
       specify the technical field to which the invention relates-->
<!--属性:
               标号 -->
<!--attribute:
               technical field id-->
       id
<!ELEMENT technical-field (heading*, p+)+>
<!ATTLIST technical-field
    id ID #IMPLIED
<!--保持原有格式, 属性 listing-type 表示了该结构的内容是什么数据 -->
<!-- This element is one method to identify content consisting of text objects that
  require preservation (pre) of their whitespace in order to preserve internal
  logical relationships.
  (e.g., sequence listing fragments, computer program listings)-->
<!--属性:
                       标号
        id
        listing-type 表示了该结构的内容是什么数据-->
<!--attribute:
       id
                       preservation id
       xml
       listing-type
<!ELEMENT pre (#PCDATA)>
<!ATTLIST pre
    id ID #IMPLIED
    xml:space (preserve | default) #FIXED "preserve"
    listing-type (sequence | program-listing | other) #REQUIRED
<!--段落 -->
<!--Paragraph
```

```
Recommended id = p0001, p0002, etc. num = 0001, 0002, etc.
  Note: paragraphs may occur in sections other than the description and at
  different times eg. for the abstract, in this case use for example "p0001a";
  amended claims: "p0001ac", etc. -->
<!--属性:
                标号建议取值为 p01, p02 等
                 建议取值为 001, 002 等-->
       num
<!--attribute:
       id
                Recommended id = p0001, p0002, etc.
                 Recommended num = 0001, 0002, etc.-->
       num
<!ELEMENT p (#PCDATA | b | i | u | sup | sub | smallcaps | br | dl | ul | ol | figref | patcit | nplcit | crossref |
img | chemistry | maths | tables | table-external-doc | pre | bio-deposit)*>
<!ATTLIST p
    id ID #IMPLIED
    num CDATA #REQUIRED
<!--对符合 table-external DTD 外部独立表格的 XML 文件的引用-->
<!--References a stand-alone table authored with the table-external DTD.-->
<!--属性:
       id
                      标号
       file
                      引用的文件名
                      使用的语言
       lang
       external-type 外部表格的类型
                     外部表格的状态
       status
                     载体类型-->
       carriers
<!--attribute:
       id
                      table external document id
       file
                     file name
       lang
                      language
       external-type table external document type
                     table external document status
       status
                     table external document carriers-->
       carriers
<!ELEMENT table-external-doc (#PCDATA)>
<!ATTLIST table-external-doc
    id ID #IMPLIED
    file CDATA #REQUIRED
    lang CDATA #IMPLIED
    external-type (math | chemistry | program-listing | other) #IMPLIED
    status CDATA #IMPLIED
    carriers (internal-electronic | external-electronic | paper) #IMPLIED
<!--表格,可以是图像数据,也可以是根据 OASIS Exchange model 编制的表格 -->
<!--TABLES
```

This is image data or coded according to OASIS Exchange model with modified cell

```
'entry' content.
   Recommended id = tabl0001, tabl0002, etc.-->
<!--属性:
              标号建议取值为 tabl01, tabl02 等
     id
               表格编号 -->
     num
<!--attribute:
     id
              Recommended id = tabl0001, tabl0002, etc.
     num
               table number-->
<!ELEMENT tables (img | table)>
<!ATTLIST tables
    id ID #IMPLIED
    num CDATA #REQUIRED
<!--对一幅图形/图像的引用 -->
<!--A reference to a figure;
  e.g., "...as shown in <figref idref='f0001'>figure<b>1</b></figref>..."-->
<!--属性:
              引用的图形/图像的标号
     id
               编号 -->
     num
<!--attribute:
     id
              figure reference id
               figure number-->
<!ELEMENT figref (#PCDATA | b | i | u | sup | sub | smallcaps)*>
<!ATTLIST figref
    idref IDREFS #IMPLIED
    num CDATA #IMPLIED
<!--定义(术语)列表, 建议 id 取值为 dlis01, dlis02 等 -->
<!-- Definition list
  Recommended id = dlis0001, dlis0002, etc.-->
<!--属性:
     tsize
     compact
     id
              标号建议取值为 dlis01, dlis02 等-->
<!--attribute:
     tsize
     compact
     id
              Recommended id = dlis0001, dlis0002, etc.-->
<!ELEMENT dl (dt, dd)+>
<!ATTLIST dl
    tsize NMTOKEN #IMPLIED
    compact (compact) #IMPLIED
    id ID #IMPLIED
```

```
<!--被定义的术语, 属性 id 建议取值为 dtrm01, dtrm02 等 -->
<!--
  Term to be defined
  Recommended id = dtrm0001, dtrm0002, etc. -->
<!--属性:
     id
               标号建议取值为 dtrm01, dtrm02 等-->
<!--attribute:
               Recommended id = dtrm0001, dtrm0002, etc.-->
<!ELEMENT dt (#PCDATA | b | i | u | sup | sub | smallcaps)*>
<!ATTLIST dt
    id ID #IMPLIED
<!-- 无序列表 -->
<!-- Unordered Lists
    list-style may be empty for lists with no bullet or other symbol default
    list-style is 'bullets'
    Recommended id = ulis0001, ulis0002, etc. -->
<!--属性:
                       标号建议取值为 ulis01, ulis02 等
         id
                    列-表类型可一以为空,缺省为'bullets'
         list-style
         compact
                         -->
<!--attribute:
         id
                       Recommended id = ulis0001, ulis0002, etc.
        list-style
                    list-style may be empty for lists with no bullet or other symbol default
                        list-style is 'bullets'
         compact
<!ELEMENT ul (li+)>
<!ATTLIST ul
    id ID #IMPLIED
    list-style (bullet | dash | none) "bullet"
    compact (compact) #IMPLIED
<!-- 列表表项, 属性 id 建议取值为 list01, list02 等 -->
<!--List item
  Recommended id = list0001, list0002, etc.
<!--属性:
        id
                    标号建议取值为 list01, list02 等-->
<!--attribute:
                    Recommended id = list0001, list0002, etc.-->
<!ELEMENT li (#PCDATA | b | i | u | sup | sub | smallcaps | br | pre | patcit | nplcit | bio-deposit | crossref |
figref | img | dl | ul | ol | chemistry | maths)*>
<!ATTLIST li
    id ID #IMPLIED
```

```
<!--数学公式 可以使用图像数据表示,也可以使用根据 mathml 的 XML 结构数据 -->
<!--
 MATHEMATICS
 This is image data or coded according to mathml, version 2
  Recommended id = math0001, math0002, etc.
<!-- 属性:
              标号建议取值为 math01, math02 等
     id
               数学公式编号 -->
     num
<!--attribute:
     id
              Recommended id = math0001, math0002, etc.
               mathematics number-->
     num
<!ELEMENT maths (img | (math, img?))>
<!ATTLIST maths
   id ID #IMPLIED
   num CDATA #REQUIRED
<!--化学公式、方程式、结构式等,可以作为图像数据处理,也可以使用外部独立化学式(使用 chemML、
CML 等 XML 结构) -->
<!-- 属性 id 建议取值为 chem01, chem02 等 -->
<!--
      Chemistry
 Chemical formulae, ring structures, Markush structures, etc.
  For now treat as image data.
 Depending on industry support we may use, e.g., chemML, CML later
  Recommended id = chem0001, chem0002, etc
-->
<!--属性:
      id
               标号建议取值为 chem01, chem02 等
                化学式编号-->
      num
<!--attribute:
      id
               Recommended id = chem0001, chem0002, etc
                chemistry number-->
<!ELEMENT chemistry (img | (chem, img?))>
<!ATTLIST chemistry
   id ID #IMPLIED
   num CDATA #REQUIRED
<!--外部化学式 xml 文件 , 可以使用 CML 等-->
     This is a pointer to an external xml file for chemical markup - to be determined.
 For EPO probably CML; http://www.xml-cml.org/-->
<!--属性:
          id
                       标记
           file
                      文件名称
                       类型-->
           chem-type
```

<!--attribute:

```
id
                    id
        file
                file
        chem-type
                    type
<!ELEMENT chem EMPTY>
<!ATTLIST chem
    id ID #IMPLIED
    file CDATA #REQUIRED
    chem-type CDATA #IMPLIED
<!--有序列表: -->
<!-- Ordered Lists: -->
<!--属性:
                    标号
       id
       compact
       'ol-style' - 建议值及含义如下:
                阿拉伯数字
                                1, 2, 3, ...
                小写字母
                                a, b, c, ...
            a
               大写字母
                                A, B, C, ...
            Α
              小写罗马字母
                               i, ii, iii, ...
               大写罗马字母
                               I, II, III, ...->
<!--attribute:
                    有序列表 id 号
       id
       compact
                 Recommded use:
       'ol-style'
               arablic numbers
                                  1, 2, 3, ...
                                  a, b, c, ...
           a
               lower alpha
                                  A, B, C, ...
           Α
               upper alpha
               lower roman
                                  i, ii, iii, ...
                                   I, II, III, ...->
           Ι
               upper roman
<!ELEMENT ol (li+)>
<!ATTLIST ol
    id ID #IMPLIED
    compact (compact) #IMPLIED
    ol-style CDATA #IMPLIED
<!-- 图像数据,图像数据可以是绘画、图形或者复杂的元素(数学式、表格、化学式)等-->
<!--
  Image data
  Image is used for any kind of image: art work, figures, complex work units
  (math, tables, chemistry), etc.-->
<!-- 属性:
        id
                               标号建议取值 i01, i02 等
                               建议取值 "11" - 以毫米为单位 - 高,宽;
        he, wi
```

file 文件名和位置; 图像不显示时的替代文字 alt 缺省为 drawing; img-content 图像格式,通常为tiff、st33或st35 img-format orientation 图像的方向 (portrait | landscape). 缺省为 portrait 图像是否为行内图. 缺省为 no --> inline = (yes | no). <!--attribute: id Recommended i0001, i0002, etc. he, wi Recommended "11" - milimeters - height, width; file file name, location; alternate text if image not shown; alt drawing is the default; img-content common will be tiff, st33 and st35 in for backward compatibilty img-format and, later, publication. orientation orientation of the image (portrait | landscape). Default is portrait inline (yes | no). Whether the image is to be presented inline or separated by line breaks. Default is no.--> <!ELEMENT img EMPTY> <!ATTLIST img id ID #IMPLIED he NMTOKEN #REQUIRED wi NMTOKEN #REQUIRED file CDATA #REQUIRED alt CDATA #IMPLIED img-content (drawing | photograph | character | dna | undefined) "drawing" img-format (jpg | tif | st33 | st35) #REQUIRED orientation (portrait | landscape) "portrait" inline (yes | no) "no" <!--对任何具有 id 属性的其他元素的引用 --> <!--Cross reference to any other element with an identifier (id)--> <!--属性: idref 被引用的 id 号--> <!--attribute : reference id--> idref <!ELEMENT crossref (#PCDATA)> <!ATTLIST crossref idref CDATA #REQUIRED <!-- 标题; 建议 id 取值为 h01, h02 等 , 属性 level 表示 标题的层次 --> <!--Heading text; Recommended id = h0001, h0002, etc.--> <!--属性:

```
id
                  建议取值为 h01, h02 等
                 表示 标题的层次 -->
          level
<!--attribute:
                  Recommended id = h0001, h0002, etc.
          id
          level
                 heading level-->
<!ELEMENT heading (#PCDATA | b | i | u | sup | sub | smallcaps)*>
<!ATTLIST heading
    level (1 | 2 | 3) #IMPLIED
    id ID #IMPLIED
<!-- 文档页,主要使用在所有或者大部分的数据都是以图像格式或是诸如 PDF 等格式存储的情况
下。
    "img"也可以是整个文档页,如附图。-->
<!-- 建议属性 id 取值为 docp01, docp02 等。 -->
  doc-page - DOCument or PAGE
  This is primarily to be used when data for the whole or major sections of an
  application are in image format OR other formats such as pdf.
  Page range attributes are given when required
    pp - page range
    ppf - first page
    ppl - last page (for pdf).
  The 'img' may also be used for complete pages, e.g. in drawings
  Recommended id = docp0001, docp0002, etc.-->
<!-- 属性:
                                建议取值 docp01, docp02 等。
        id
        he, wi
                               高,宽;
                                文档类型(jpg,pdf,tif)
        type
                               图像不显示时的替代文字
        alt
                                页码范围;
        pp
        ppf
                                起始页
                                结束页
        ppl
                               文件名
        file
        ocr
                               颜色
        color
        orientation
                              图像的方向 (portrait | landscape). 缺省为 portrait -->
<!--attribute:
                                Recommended id = docp0001, docp0002, etc.
        id
        he, wi
                               height width
                                document type(jpg,pdf,tif)
        type
                               alternate text if image not shown
        alt
                                page range;
        pp
```

```
ppf
                                  first page
                                  last page
         ppl
         file
                                 file name
         ocr
         color
                                 color
         orientation
                                orientation of the image (portrait | landscape).
                                  Default is portrait-->
<!ELEMENT doc-page EMPTY>
<!ATTLIST doc-page
    id ID #IMPLIED
    he NMTOKEN #REQUIRED
    wi NMTOKEN #REQUIRED
    type (jpg | pdf | tif) #REQUIRED
    alt CDATA #IMPLIED
    pp CDATA #IMPLIED
    ppf CDATA #IMPLIED
    ppl CDATA #IMPLIED
    file CDATA #REQUIRED
    oer CDATA #IMPLIED
    color (color | bw) #IMPLIED
    orientation (portrait | landscape) "portrait"
<!-- 附图, 建议标号 id 取值为'draw' -->
  Drawings shall be required when they are necessary for the understanding of the
  invention.
  Recommended id = 'draw'-->
<!ELEMENT drawings (doc-page+ | figure+)>
<!ATTLIST drawings
    %body_sections;
<!-- 摘要附图 -->
<!-- abstract drawing-->
<!ELEMENT cn-abstract-drawing (doc-page | figure)>
<!ATTLIST cn-abstract-drawing
    %body sections;
<!-- INID 57 摘要、建议标号 id 取值为'abst' -->
<!-- INID 57 A concise summary of the disclosure.
  Recommended id = 'abst' or 'abst0001' for multiple abstracts-->
<!ELEMENT abstract (doc-page+ | (abst-problem, abst-solution) | p+)>
<!ATTLIST abstract
    %body sections;
```

```
<!--权利要求、 建议 id 取值为'claim' -->
<!--Claims:
  the claims shall define the matter sought for patent and be supported by the
  description.
  Recommended id = 'claim' or 'claim0001' for multiple claims-->
<!ELEMENT claims (doc-page+ | claim+)>
<!ATTLIST claims
    %body_sections;
<!-- 一个权利要求项的文本 -->
<!--The text of the claim; also used for for sub-para indentation-->
<!ELEMENT claim-text (#PCDATA | claim-text | claim-ref | b | i | u | sup | sub | smallcaps | br | pre |
crossref | figref | img | chemistry | maths | tables)*>
<!--一个段落中的换行 -->
<!--br - break, line break within a paragraph-->
<!ELEMENT br EMPTY>
<!-- 说明书,
                属性 id 建议取值为'desc' -->
<!--Description:
  The description must disclose the invention in a manner sufficiently clear and
  complete for it to be carried out by a person skilled in the art (Rule 5).
  Recommended id = 'desc'-->
<!ELEMENT description (doc-page+ | (invention-title?, (technical-field | background-art | disclosure |</pre>
description-of-drawings | best-mode | mode-for-invention | industrial-applicability | sequence-list-text |
(heading*, p+)+)+)>
<!ATTLIST description
    %body sections;
<!--定义的内容(定义列表中使用)
<!--Definition description-->
<!ELEMENT dd (#PCDATA | b | i | u | sup | sub | smallcaps | br | pre | patcit | nplcit | bio-deposit | crossref |
figref | img | ul | ol | chemistry | maths)*>
<!--微生物样本保藏有关信息 -->
<!-- (INID 83, ST.32:B830)
  Recommended id = biod0001, biod0002, etc.-->
<!ELEMENT bio-deposit (depositary, bio-accno, date?, term?, dtext?)>
<!ATTLIST bio-deposit
    id ID #IMPLIED
    num CDATA #REQUIRED
    url CDATA #IMPLIED
    dnum CDATA #IMPLIED
<!--微生物样本保藏地点的信息-->
<!-- Information regarding the facility storing the biological deposit.-->
<!ELEMENT depositary (#PCDATA | address)*>
```

- <!--微生物样本保藏编号-->
- <!-- Biological accession number:

The identification assigned to the biological material by the depository-->

- <!ELEMENT bio-accno (#PCDATA)>
- <!--Identifies the period of time during which the depository must be able to furnish samples of the biological material.-->
- <!--微生物样本保藏期限 -->
- <!ELEMENT term (#PCDATA)>
- <!--和本申请有关的其他国内申请 -->
- <!-- References to other legally or procedurally related domestic patent documents.-->
- <!ELEMENT cn-related-documents (division?, cn-domestic-priority-claims?)>
- <!--INID 73 被授予专利权人/专利权受让人信息.-->
- <!--INID 73 Grantee/assignee information.-->
- <!ELEMENT assignees (assignee+)>
- <!--INID 73 Grantee/assignee information.-->
- <!--INID 73 Grantee/assignee information.-->
- <!ELEMENT assignee (%name\_group; | addressbook)>