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**WORLD INTELLECTUAL PROPERTY ORGANIZATION**  
GENEVA

**PATENT COOPERATION TREATY (PCT)**

**ADMINISTRATIVE INSTRUCTIONS UNDER THE PCT**

**PROPOSED MODIFICATIONS RELATING TO THE ELECTRONIC FILING  
AND PROCESSING OF INTERNATIONAL APPLICATIONS**

**ANNEX F, APPENDIX I**

**XML DTDs FOR THE E-PCT STANDARD**

*prepared by the International Bureau  
for the purposes of consultation under Rule 89.2(b)*

This is a further revised version of document PCT/AI/1 Add.4 Prov., superseding document PCT/AI/1 Add.4 Prov. Rev.2 dated January 30, 2001.

Comments on this and related documents are invited by August 24, 2001.

## BACKGROUND

1. The general background to the proposed modifications of the Administrative Instructions relating to the electronic filing and processing of international applications set out in this document is explained in document PCT/AI/1 Add.2 Prov. Rev.3 (containing proposed new Part 7 of the Administrative Instructions) which, together with proposed Annex F and its Appendices, constitute the draft legal framework and technical standard for electronic filing and processing of international applications.<sup>1</sup> The present (“Rev.3”) versions of the documents take into account comments made on the previous (“Rev.2”) versions.
2. The International Bureau intends to prepare further revised drafts, taking into account any comments received by August 24, 2001, for the purposes of a final, formal, round of consultation, following which modifications would be promulgated by the Director General. The modifications as promulgated will provide a basis for the development of the necessary systems, but the modifications will not actually come into force until electronic filing and processing becomes possible in practice.
3. Certain aspects of the technical standard set out in Annex F have now been the subject of consultation in several drafts and the International Bureau does not envisage that they will require further change before the modifications of the Administrative Instructions are promulgated by the Director General. Those matters include the following:
  - (a) electronic IA document (Annex F, section 3), including allowable electronic document formats (section 3.1), compound document structure (section 3.2), electronic signature (section 3.3) and allowable document formats (section 3.4);
  - (b) IA documents packaging (Annex F, section 4), including wrapped application documents (WAD) (section 4.1.1) and wrapped and signed package (WASP) (section 4.2.1), *but not at this stage including* signed and encrypted package (SEP) (section 4.2.2);
  - (c) XML DTDs for the E-PCT standard (Annex F, Appendix I), to the extent that it may be regarded as a baseline DTD subject to further development;
  - (d) use of PKI for the E-PCT standard (Annex F, Appendix II), *but not at this stage including* aspects related to transmission protocols and interoperability of software;
  - (e) use of physical media for the E-PCT standard (Annex F, Appendix IV).

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<sup>1</sup> The documents are available on WIPO’s Internet site at the following address:  
[http://pcteasy.wipo.int/efiling\\_standards/EFPage.htm](http://pcteasy.wipo.int/efiling_standards/EFPage.htm). Copies on paper may be obtained from the International Bureau of WIPO on request.

Certain other aspects of the standard still require further discussion, and comments are sought on the following, in particular:

4. signed and encrypted package (SEP) (Annex F, section 4.2.2);
5. transmission protocols and interoperability of software (Annex F, section 5.1, together with related passages).

[Annex F, Appendix I, follows]

**PROPOSED MODIFICATIONS OF THE  
ADMINISTRATIVE INSTRUCTIONS UNDER THE PCT**

**ANNEX F  
STANDARD FOR THE ELECTRONIC FILING AND  
PROCESSING OF INTERNATIONAL APPLICATIONS**

**Appendix I  
XML DTDs for the E-PCT Standard**

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## 1 Introduction

This document presents the XML DTDs used for the electronic exchange of international application documents as defined in Annex F. It also contains details of the methodology adopted in drafting these DTDs.<sup>1</sup>

## 2 DTDs for XML documents

### 2.1 Strategy for further development of DTDs

This specification is expected to expand in scope over time to include subsequent formal exchanges between the parties involved. Included below are some of the DTDs required for the initial phase of electronic submission of an electronic application, and for some communications in the designated Office PCT communication sector. Other DTDs will be required for later phases of the processing of an electronic PCT application (E-PCT).

While the immediate goal of this specification is to support E-PCT applications, the Trilateral Offices intended to use it as the basis for their own national electronic applications for a variety of industrial-property types and recommend that it would be the basis for an eventual WIPO standard for use by other Offices.

With that in mind, the DTDs created for E-PCT will be constructed in components for element definitions and from which the Trilateral Offices and others can derive elements and DTDs for their needs in a consistent and compatible manner. The other DTDs that will eventually be required will also be based on the component DTD architecture. The XML name-space facility (XMLNS) will be used to support the distinction of sub-component names in this specification and those produced by other Offices.

As an aid to understanding the DTDs and creating additional components, an HTML-based documentation has been constructed of the elements and structures in the sources of the proposed DTDs, that will illustrate their relationships and their **definitions**. **This HTML documentation is available on the PCT Electronic Filing web-site.**

### 2.2 Future DTDs

- (a) Post-application, procedural and formal communications of various types
- (b) RO to IB
- (c) RO to ISA
- (d) IB to ISA
- (e) IB to IPEA
- (f) ISA to IB

<sup>1</sup> Words and expressions used in this Appendix have the same meanings as in the main body of Annex F; see the Glossary and abbreviations section at the end of that main body.

- (g) IPEA to IB
- (h) IB to RO
- (i) DTDs required by other types of industrial property

### **2.3 Reusable components**

Given the large number of international application document exchange DTDs, they will be built using a number of reusable standard components combined with transaction specific components.

The method for producing and organizing these components will initially be based on replication among DTDs and inclusion of DTD structures using the XML feature for “external parameter entities.” The emerging XML standard, called XML Schema, contains more sophisticated support for component-level structure and re-use. At some point in the future, when XML Schema has reached maturity in the industry, the DTD components may be converted to XML Schema components.

To date, the following commonly used components have been defined and can be found in several E-PCT DTD's:

- addressbook: name and address information
- doc-page: referenced document or page image or pdf file
- heading: section heading
- invention-title: short title of the invention
- %nam (model group): name information (also used by addressbook)
- p: paragraph (including formatting and complex unit support for image, math, table, etc.)
- signatories: name and electronic signature information

### 3 DTDs for new PCT applications (E-PCT)

Note: The DTD's listed below are the latest released versions. It is envisioned that they will be published in a public web repository.

#### 3.1 E-PCT Dossier

```
<!--
*****
* EPCT-DOSSIER v0.96 2001 APRIL *
*****
* public "-//wipo//dtd ePCT-dossier v0.96 2001-04-30/en" *
*****
* contacts: *
* EPO: Paul Brewin; pbrewin@epo.org *
* JPO: Mitsuru Sono; sono-mitsuru@jpo.go.jp *
* USPTO: Bruce B. Cox; bruce.cox@uspto.gov *
* WIPO: Shiro Ankyu; shiro.ankyu@wipo.int *
*
*****
* revision history *
*****
Revised 2001-04-26 Geneva Trilateral/WIPO Working Group
..changed version to .96
..added signatory
..added transmittal
..modified declaration
Revised
.changed version to v0.95
..changed attribute value
..add declaration element
.changed version to v0.92
..significant structural revision 2001 Mar 2, Shiro Ankyu, WIPO, and
John Godman, WIPO
....removed subdocument structure from this DTD - all documents simply link to
a referenced document
.....this object (the epct ia dossier) now serves as a document list only -
each referenced document includes its own structure
.changed version to v0.91
..changed attribute value, from x25 to st25 Revised 2001 Jan 29, Shiro Ankyu,
WIPO, and John Godman, WIPO
..added document-info,document-bibliographic,extref,etc Revised 2000 June 7,
Shiro Ankyu, WIPO, and John Godman, WIPO
.changed version to v0.82
..changed encoding to "UTF-8"
..added PDF element to R0101, SPECIFICATION, & FEE TRANSMITTAL subtrees,
...in order to more closely reflect Annex F, Appendix I, v4.0 Revised 2000
May 26, Bruce B. Cox, USPTO, Paul Brewin, EPO, and Shiro Ankyu, WIPO
.changed version to v0.8
..major redesign of DTD; see Trilateral Meeting, the Hague, 2000 April 17-19,
...Report of the DTD Subgroup
-->
-->
<!--DOCTYPE epct-dossier[

<!--* Define some entities
Name group entity, please see name element group for each elements -->

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

```

<!-- document-attributes group entity
status : attached document status e.g, new, replace,
    lang   : language code of attached document, ISO639 language code,
              e.g, en,de,ja.,
    file   : attached document file name e.g, "request.xml"
    id     : identification of attached document
    carriers :
        internal = This WAD contains the referenced electronic document
        external  = Outside electronic carrier containes the referenced
                     electronic document
    paper    = The referenced document is paper form -->

<!ENTITY % document-attributes
    " status      CDATA #IMPLIED
     lang       CDATA #IMPLIED
     file       CDATA #REQUIRED
     id        ID #REQUIRED
     carriers   (internal-electronic | external-electronic|
                  paper) #IMPLIED " >

<!-- Root Element epCT -->

<!ELEMENT epct-dossier (transmittal-info?,signatories?,dtext?,
    (application-request | application-body-doc | chapter2-demand |
    fee-calculation-sheet | declaration-doc |lack-of-signature |
    biological-material | separate-power-of-attorney |
    general-power-of-attorney | copy-general-power-of-attorney |
    bib-changes | notification | amendment |
    priority-document | translation-of-application|
    search-report|trans-search-report|
    preliminary-examination-report|
    trans-preliminary-examination-report |
    published-application | sequence-list | correspondence |
    other-documents)+) >

<!-- attributes epct-dossier
    lang   : language code of attached document, ISO639 language code,
              e.g, en,de,ja.,
    dtd-version : dtd version number
    date-produced : YYYYMMDD e.g, 20011230 -->

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

<!-- transmittal-information -->

<!ELEMENT transmittal-info (new-application | subsequent-filing |
    office-to-office| office-to-applicant) >

<!--New application information from applicant to office -->
<!ELEMENT new-application (invention-title?,first-named-applicant?,
    file-reference-id?) >

<!-- title of invention -->
<!ELEMENT invention-title (#PCDATA | b | i | u | sup | sub)* >
<!ATTLIST invention-title
    id        ID #REQUIRED
    lang     CDATA #IMPLIED >

```

```

<!-- first applicant name in applicant group -->
<!ELEMENT first-named-applicant %nam; >

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

<!-- Subsequent Filing information, before Issue Date. -->
<!ELEMENT subsequent-filing (invention-title?,first-named-applicant,
                           confirmation-number?,file-reference-id?,
                           (application-reference | (patent-reference,
                           application-reference))) >

<!-- confirmation number from office to applicant -->
<!ELEMENT confirmation-number (#PCDATA) >

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

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

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

<!-- Document transfer information between offices. -->
<!ELEMENT office-to-office (application-reference,publication-reference?,
                           file-reference-id?,from?,to?) >

<!-- the office sends the document -->
<!ELEMENT from (country) >

<!-- the office receives the document -->
<!ELEMENT to (country) >

<!-- Document transfer information from office to applicatn -->
<!ELEMENT office-to-applicant (from,invention-title?,first-named-applicant,
                               confirmation-number?,file-reference-id?,
                               (application-reference | (patent-reference,
                               application-reference))) >

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

<!ELEMENT signatory (%nam;,electronic-signature,
                      signatory-capacity?) >

<!ELEMENT electronic-signature (basic-signature | enhanced-signature) >
<!ATTLIST electronic-signature
  date CDATA #REQUIRED
  place-signed CDATA #IMPLIED >

<!ELEMENT signatory-capacity (#PCDATA) >

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

<!ELEMENT enhanced-signature (pkcs7) >

```

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## Annex F, Appendix I

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```

<!-- separate indications concerning deposited microorganism -->
<!-- or other biological material -->
<!ELEMENT biological-material EMPTY >
<!ATTLIST biological-material %document-attributes;
          type      (xml)      #REQUIRED >

<!-- original separate power of attorney -->
<!ELEMENT separate-power-of-attorney EMPTY >
<!ATTLIST separate-power-of-attorney %document-attributes;
          type      (xml)      #REQUIRED >

<!-- original general power of attorney -->
<!ELEMENT general-power-of-attorney EMPTY >
<!ATTLIST general-power-of-attorney %document-attributes;
          type      (xml)      #REQUIRED >

<!-- copy of general general power of attorney -->
<!ELEMENT copy-general-power-of-attorney EMPTY >
<!ATTLIST copy-general-power-of-attorney %document-attributes;
          type      (xml)      #REQUIRED
          ref-number CDATA    #REQUIRED >

<!-- changing of bibliographic, e.g name, address -->
<!ELEMENT bib-changes EMPTY >
<!ATTLIST bib-changes %document-attributes;
          type      (xml)      #REQUIRED >

<!-- notification form among applicant and offices -->
<!ELEMENT notification EMPTY >
<!ATTLIST notification %document-attributes;
          type      (xml)      #REQUIRED
          notification-type CDATA    #REQUIRED >

<!-- amendment request document, PCT; Art 19 or 34 -->
<!ELEMENT amendment EMPTY >
<!ATTLIST amendment %document-attributes;
          type      (xml)      #REQUIRED >

<!ELEMENT priority-document EMPTY >
<!ATTLIST priority-document %document-attributes;
          type      (xml)      #REQUIRED >

<!-- translation of international application -->
<!ELEMENT translation-of-application EMPTY >
<!ATTLIST translation-of-application %document-attributes;
          type      (xml | pdf)   #REQUIRED >

<!-- search report -->
<!ELEMENT search-report EMPTY >
<!ATTLIST search-report %document-attributes;
          type      (xml)      #REQUIRED >

<!-- English translation search report -->
<!ELEMENT trans-search-report EMPTY >
<!ATTLIST trans-search-report %document-attributes;
          type      (xml)      #REQUIRED >

<!ELEMENT preliminary-examination-report EMPTY >
<!ATTLIST preliminary-examination-report %document-attributes;
          type      (xml)      #REQUIRED >

<!-- English translation IPER -->
<!ELEMENT trans-preliminary-examination-report EMPTY >
<!ATTLIST trans-preliminary-examination-report %document-attributes;
          type      (xml)      #REQUIRED >

```

```

<!-- published application e.g, PCT; Art.20 communication -->
<!ELEMENT published-application EMPTY >
<!ATTLIST published-application %document-attributes;
      type      (xml | pdf) #REQUIRED >

<!-- 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 -->
<!ELEMENT sequence-list EMPTY >
<!ATTLIST sequence-list %document-attributes;
      type      (pdf | txt | app | xml | zip)
      #REQUIRED >

<!-- correspondence from applicant -->
<!-- it is possible to use correspondence-type attribute -->
<!-- for correspondence title -->
<!ELEMENT correspondence EMPTY >
<!ATTLIST correspondence %document-attributes;
      type      (xml) #REQUIRED
      correspondence-type CDATA
      #REQUIRED >

<!-- other document, other-document-name attribute supports name -->
<!-- of the document -->
<!ELEMENT other-documents EMPTY >
<!ATTLIST other-documents %document-attributes;
      other-document-name CDATA #REQUIRED
      type      (pdf | txt | app | xml | zip)
      #REQUIRED >

<!-- HIGHLIGHTED ELEMENTS
bold, italic, underscore,
If we do not use these we have to have a generic tag such as
emphasis with styles or levels because users want to use
these and we need to mark it up - it is far simpler to have
the tags shown below -->
<!-- * bold -->
<!ELEMENT b      (#PCDATA | i | u | smallcaps | br)* >
<!-- * italic -->
<!ELEMENT i      (#PCDATA | b | u | smallcaps | br)* >
<!-- * underscore -->
<!ELEMENT u      (#PCDATA | b | i | smallcaps)* >
<!-- * Underscore attribute: style - single is default -->
<!ATTLIST u      style      (single | double | dash | dots ) "single" >
<!-- * Superscript attribute: position (post) -->
<!ELEMENT sup     (#PCDATA | b | u | i)* >

```

```

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

<!-- NAME if no distinction or detail can be given.
Also to be used for:
personal (natural-person) and corporate (legal entity) names      -->
<!ELEMENT name          (#PCDATA)                                >
<!ATTLIST name
  type (legal | natural) #REQUIRED                               >

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

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

<!-- First, given, middle name(s), initials
eg. John, John F., J.F, John Frederick                         -->
<!ELEMENT first-name    (#PCDATA)                                >

<!ELEMENT middle-name   (#PCDATA)                                >

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

<!-- Individual id *                                         -->
<!ELEMENT iid          (#PCDATA)                                >

<!-- Role, eg President added 02.11.2000 PB ISO 12083 *       -->
<!ELEMENT role          (#PCDATA)                                >

<!-- Organisation name *                                      -->
<!ELEMENT orgname       (#PCDATA)                                >

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

<!-- Synonym, cross-reference *                                -->
<!ELEMENT synonym       (#PCDATA)                                >

<!-- Applicant's, agent's registration number with the office -->
<!ELEMENT registered-number (#PCDATA)                            >

<!-- common elements                                         -->
<!-- Document, application identification group             -->
<!ELEMENT document-id  (country,doc-number,name?,kind?,date?) >

<!-- country code, ST.3                                       -->
<!ELEMENT country        (#PCDATA)                                >

<!-- Document number                                         -->
<!-- In case of application ; application number            -->
<!-- In case of publication ; publication number            -->
<!-- In case of grant patent; patent number                -->
<!ELEMENT doc-number    (#PCDATA)                                >

<!-- kind code,                                              -->
<!ELEMENT kind          (#PCDATA)                                >

```

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```
<!-- date, YYYYMMDD, e.g., 20011230 -->
<!ELEMENT date (#PCDATA) >

<!-- filing language, ISO639 language code, e.g., en, de, ja, -->
<!ELEMENT language-of-filing (#PCDATA) >

<!-- END OF DTD -->
```

**Request form**

```

<!--
*****
* request v0.3      2001 APRIL
*****
* public "-//wipo//dtd request v0.3 2001-04-30/en"
*****
* contacts:
* EPO:  Paul Brewin; pbrewin@epo.org
* JPO:  Mitsuru Sono; sono-mitsuru@jpo.go.jp
* USPTO: Bruce B. Cox; bruce.cox@uspto.gov
* WIPO: Shiro Ankyu; shiro.ankyu@wipo.int
*
*****
* revision history
*****
```

Revised 2001-04-26, Geneva, Trilateral/WIPO Working Group  
..checklist made optional  
..  
Revised 2001 March 2, Shiro Ankyu, WIPO,  
..added check list  
Revised 2001 Jan 25, Shiro Ankyu, WIPO, and Paul Brewin, EPO  
..changed version to v0.2  
..changed order of element from ST32 structure to RO101 paper form structure.  
..substantially modified many tags, added attributes, added tags to reflect  
PCT requirements better.

Revised 2000 June 7, Shiro Ankyu, WIPO, and John Godman, WIPO  
..changed version to v0.11  
..changed encoding to "UTF-8"  
..modified ELECTRONIC-SIGNATURE structure  
...in order to more closely reflect Annex F, Appendix I, v4.0  
....added BASIC-SIGNATURE  
....added FAX  
....added TEXT-STRING  
....added CLICK-WRAP  
....added ENHANCED-SIGNATURE  
....added PKCS7  
....changed filename attribute to FILE-NAME to match ePCT DTD  
Created 2000 May 26, Bruce B. Cox, USPTO, Paul Brewin, EPO,  
and Shiro Ankyu, WIPO  
..set version to v0.1  
...creation of new DTD; see Trilateral Meeting, the Hague, 2000 April 17-19,  
....Report of the DTD Subgroup -->

<!--DOCTYPE request [ -->  
<!--Define some entities -->  
<!--Name group entity, please see name element group for each elements -->  
<!ELEMENT % nam "((name | (prefix?,last-name,first-name,middle-name?,suffix?,  
 iid?, role?,orgname?,department?,synonym\*)),  
 registered-number?)" -->  
  
<!-- PCT REQUEST FORM : RO101 (root element) -->  
<!ELEMENT request ((file-reference-id?,request-petition,invention-title?,  
 parties,designation-of-states?,priority-claims?,  
 search-authority?,declarations?,check-list?,  
 figure-to-publish?,language-of-filing?,signatories?,dttext?,  
 office-specific-data\*) | doc-page+) -->  
  
<!-- attributes for request -->

```

<!-- lang :language code of attached document, -->
<!-- ISO639 language code,e.g, en,de,ja,, -->
<!-- dtd-version :dtd version number -->
<!-- date-produced :YYYYMMDD e.g, 20011230 -->
<!-- if desired, 12 characters maximum -->
<!-- ro :Receiving office name, country code ST.3 -->
<!ATTLIST request
    lang          CDATA      #REQUIRED
    dtd-version   CDATA      #IMPLIED
    produced-by   (applicant | RO | ISA | IPEA | IB | DO | EO)
                  #REQUIRED
    date-produced CDATA      #IMPLIED
    status         CDATA      #IMPLIED
    ro             CDATA      #REQUIRED
    file           CDATA      #IMPLIED >

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

<!-- The Petition (PCT Rule 4.2) -->
<!-- The request shall contain a petition, -->
<!-- The petition shall be to the following effect and shall preferably -->
<!-- be worded as follows: The undersigned requests that the present -->
<!-- international application be processed according to the Patent -->
<!-- Cooperation Treaty. -->
<!ELEMENT request-petition (#PCDATA) >

<!-- BOX No.I TITLE of Invention (PCT Rule 4.3) -->
<!-- The title of the invention shall be short (preferably from two to -->
<!-- seven words when in English or translated into English) and precise. -->
<!ELEMENT invention-title (#PCDATA | b | i | u | sup | sub)* >
<!ATTLIST invention-title
    id          ID      #REQUIRED
    lang        CDATA   #IMPLIED >

<!-- HIGHLIGHTED ELEMENTS
bold, italic, underscore,
If we do not use these we have to have a generic tag such as
emphasis with styles or levels because users want to use
these and we need to mark it up - it is far simpler to have
the tags shown below -->
<!-- * bold -->
<!ELEMENT b (#PCDATA | i | u | smallcaps | br)* >
<!-- * italic -->
<!ELEMENT i (#PCDATA | b | u | smallcaps | br)* >
<!-- * underscore -->
<!ELEMENT u (#PCDATA | b | i | smallcaps)* >
<!-- * Underscore attribute: style - single is default -->
<!ATTLIST u
    style       (single | double | dash | dots ) "single" >
<!-- * Superscript attribute: position (post) -->
<!ELEMENT sup (#PCDATA | b | u | i)* >
<!ELEMENT sub (#PCDATA | b | u | i)* >
<!-- * Small capitals -->
<!ELEMENT smallcaps (#PCDATA | b | u | i | br)* >

```

```

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

<!-- BOX No.II, III and IV APPLICANTS, FURTHER APPLICANT(S) -->
<!-- AND/OR (FURTHER) INVENTOR(S)AGENT OR COMMON -->
<!-- REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE -->
<!-- (PCT Rule 4.5, 4.6, 4.7, 4.8) -->
<!ELEMENT parties (applicants,inventors?,correspondence-address?,agents?) -->

<!-- Applicants information -->
<!ELEMENT applicants (applicant+)>

<!ELEMENT applicant (addressbook+,nationality,residence,us-rights?,designed-states?)>

<!-- attributes for applicant -->
<!-- sequence : sequence number of each applicant -->
<!-- e.g., sequence="1" -->
<!-- type : applicant type -->
<!-- type="applicant" : the applicant is only applicant -->
<!-- type="applicant-inventor" : the applicant is -->
<!-- also applicant -->
<!-- designation: This person is applicant for the purpose of: -->
<!-- designation="all" : all designated states -->
<!-- designation="all-except-us" : all designated states -->
<!-- except US -->
<!-- designation="us-only" : US only -->
<!-- designation="as-indicated" : the states indicated in -->
<!-- designated-states element -->
<!-- under applicant element -->

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

<!-- addressbook : NAME and ADDRESS COMPONENTS / GROUP TAG

    % nam "((name | (prefix?,last-name,first-name,middle-name?,suffix?,iid?, role?,orgname?,department?,synonym*)),registered-number?)" -->

The lang attribute is REQUIRED for eg.the JPO PCT request where names and
addresses may be repeated in two different languages.
If no structure possible use pctext -->

<!ELEMENT addressbook ((%nam; ,address, phone*, fax*, email*, url*, ead*, dtext?) | dtext)>
<!ATTLIST addressbook
    lang      CDATA          #REQUIRED>

<!-- NAME if no distinction or detail can be given.
Also to be used for:
personal (natural-person) and corporate (legal entity) names -->

<!ELEMENT name (#PCDATA)>
<!ATTLIST name
    type (legal | natural) #REQUIRED>

<!-- *Title e.g., Mr., Mrs., Dr. etc* -->

```

```

<!ELEMENT prefix          (#PCDATA) >
<!-- Last, family, surname -->
<!ELEMENT last-name      (#PCDATA) >
<!-- First, given, middle name(s), initials
     eg. John, John F., J.F, John Frederick -->
<!ELEMENT first-name     (#PCDATA) >
<!ELEMENT middle-name    (#PCDATA) >
<!-- Suffix (e.g., II, Jr.Dip. Ing., BA, et al, etc. -->
<!ELEMENT suffix          (#PCDATA) >
<!-- Individual id -->
<!ELEMENT iid              (#PCDATA) >
<!-- Role, eg President added 02.11.2000 PB ISO 12083 -->
<!ELEMENT role             (#PCDATA) >
<!-- Organisation name -->
<!ELEMENT orgname          (#PCDATA) >
<!-- Department,division,section, etc. name -->
<!ELEMENT department        (#PCDATA) >
<!-- Synonym, cross-reference -->
<!ELEMENT synonym          (#PCDATA) >
<!-- Applicant's, agent's registration number with the office -->
<!ELEMENT registered-number (#PCDATA) >
<!-- ADDRESS COMPONENTS *
     The name may form part of addresses. Address format differ from
     country to country. If no structure possible use pctext -->
<!ELEMENT address ((address-1?,address-2?,address-3?,street?,city?,
                    county?,state?,postcode,country) | text) >
<!--* In case the address dose not have street name,city name,etc *-->
<!ELEMENT address-1        (#PCDATA) >
<!ELEMENT address-2        (#PCDATA) >
<!ELEMENT address-3        (#PCDATA) >
<!--* Street may contain house number or name *-->
<!ELEMENT street            (#PCDATA) >
<!--* City or town name *-->
<!ELEMENT city              (#PCDATA) >
<!--* County, parish, department, etc (mainly UK, USA) *-->
<!ELEMENT county            (#PCDATA) >
<!--* Region of country eg. state, province, lande etc *-->
<!ELEMENT state              (#PCDATA) >
<!--* Postal code or zip code *-->
<!ELEMENT postcode           (#PCDATA) >
<!--* Country use ST.3 country code eg. DE, FR, GB, NL - changed
     Includes region codes for EP, AP, EA, OA *-->
<!ELEMENT country            (#PCDATA) >

```

```

<!--* Telephone number                                     *-->
<!ELEMENT phone                               (#PCDATA)           >

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

<!ELEMENT email                               (#PCDATA)           >

<!--* Web page location,Universal Resource Locator, eg. www.epoline.org *-->
<!ELEMENT url                                 (#PCDATA)           >

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

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

<!-- Country of nationality                         -->
<!ELEMENT nationality             (country)           >

<!-- Country of residence                          -->
<!ELEMENT residence              (country)           >

<!-- This person is successor to the rights of the deceased inventor for      -->
<!-- the purposes of the designation of the United States of America          -->

<!ELEMENT us-rights             (#PCDATA)           >

<!-- to-dead-inventor : dead inventor name          -->
<!-- kind : kind of capacity                      -->
<!ATTLIST us-rights
    to-dead-inventor   CDATA      #REQUIRED
    kind (heir | heiress | executor | executrix | estate) #REQUIRED >

<!-- designation="as-indicated" : the states indicated in      -->
<!-- designated-states element                      -->
<!ELEMENT designated-states     (country*,(region,country+)* ) >

<!-- Inventors information                         -->
<!ELEMENT inventors            (inventor+,deceased-inventor*) >

<!ELEMENT inventor              (addressbook+,designated-states?) >
<!ATTLIST inventor
    sequence          CDATA      #REQUIRED
    designation (all | all-except-us | us-only | as-indicated) #IMPLIED >

<!-- deceased inventor name                         -->
<!ELEMENT deceased-inventor       %nam;               >

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

<!ELEMENT agent                 (addressbook+) >
<!ATTLIST agent
    sequence          CDATA      #REQUIRED
    type (agent | common-representative) #REQUIRED >

<!-- customer number for agents by office        -->
<!ELEMENT customer-number        (#PCDATA)           >

<!-- correspondence-address                   -->

```

```

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

<!-- BOX No.V DESIGNATION OF STATES (PCT Rule 4.9)                         -->
<!ELEMENT designation-of-states    (designation-pct,exclusion-from-designation?) >
<!ELEMENT designation-pct        (regional*,national?)                      >
<!ELEMENT national                (country,protection-request?)+           >
<!ELEMENT regional                (region,(country,protection-request?)+)     >

<!-- protection-request for the designated office                           -->
<!-- document-id : e.g, US patent application or grant number             -->
<!--               atent application or grant date                          -->
<!ELEMENT protection-request     (kind-of-protection,document-id?)          >

<!-- kind of protection e.g, patet, utility model                         -->
<!ELEMENT kind-of-protection    (#PCDATA)                                     >
<!ELEMENT region                  (country)                                    >
<!ELEMENT exclusion-from-designation (regional*,national?)                 >

<!-- BOX No.VI PRIORITY CLAIM (PCT Rule 4.10)                            -->
<!ELEMENT priority-claims       (priority-claim+)                      >
<!ELEMENT priority-claim        (country,doc-number?,date,office-of-filing?,(priority-doc-requested | priority-doc-attached)) >
<!ATTLIST priority-claim
         sequence      CDATA          #REQUIRED
         kind          (national | regional | international)      #REQUIRED >
<!-- Where earlier application is :                                         -->
<!--   Where the earlier application is an ARIPO application,indicate at -->
<!--   one country party to the PARIS convention for the protection      -->
<!--   of inderstrial property or one member of the WTO for which that    -->
<!--   earlier application was filed.                                      -->
<!ELEMENT office-of-filing      ((region,country?) | country)            >
<!-- the receiving office is requested to prepare and transmit           -->
<!--   to the IB a certified copy of the earlier application             -->
<!ELEMENT priority-doc-requested EMPTY                                     >
<!-- the priority document is attached to the application                  -->
<!ELEMENT priority-doc-attached  EMPTY                                     >

<!-- BOX No.VII INTERNATIONAL SEARCHING AUTHORITY                         -->
<!ELEMENT search-authority      (isa,earlier-search-request?)           >
<!-- name of INTERNATIONAL SEARCHING AUTHORITY                         -->
<!ELEMENT isa                    (country)                                >
<!-- request touse results of earlier search : reference to that search -->
<!ELEMENT earlier-search-request (document-id+)                         >

```

```

<!--                                BOX No.VIII DECLARATIONS      -->
<!ELEMENT declarations    (declaration1?,declaration2?,declaration3?,
                           declaration4?,declaration5?)           >

<!-- Declaration as to the identity of the inventor      -->
<!ELEMENT declaration1    EMPTY                         >
<!--      quantity : number of declaration             -->
<!ATTLIST declaration1   quantity CDATA #REQUIRED      >

<!-- Declaration as applicant's entitlement, as at the international      -->
<!--      filing date, to apply for and be granted a patent            -->
<!ELEMENT declaration2    EMPTY                         >
<!ATTLIST declaration2   quantity CDATA #REQUIRED      >

<!-- Declaration as applicant's entitlement, as at the international      -->
<!--      filing date, to clime the priority of the earlier application -->
<!ELEMENT declaration3    EMPTY                         >
<!ATTLIST declaration3   quantity CDATA #REQUIRED      >

<!-- Declaration of inventorship      -->
<!ELEMENT declaration4    EMPTY                         >
<!ATTLIST declaration4   quantity CDATA #REQUIRED      >

<!-- Declaration as to non-prejudical disclosures or exceptions to      -->
<!--      lack of novelty             -->
<!ELEMENT declaration5    EMPTY                         >
<!ATTLIST declaration5   quantity CDATA #REQUIRED      >

<!-- BOX No.IX Check list, figure number to publish and      -->
<!-- language of International Application             -->

<!-- check-list      -->
<!ELEMENT check-list     (cl-request?,cl-description?,cl-claims?,cl-abstract?,
                           cl-drawings?,cl-sequence-listing?,cl-fee-calculation?,
                           cl-separate-power-of-attorney?,
                           cl-general-separate-power-of-attorney?,
                           cl-copy-separate-power-of-attorney?,cl-lack-of-signature?,
                           cl-priority-document?,cl-translation-of-application?,
                           cl-biological-material?,cl-other-document?)       >

<!ELEMENT cl-request          EMPTY                      >
<!ELEMENT cl-description      EMPTY                      >
<!ELEMENT cl-claims           EMPTY                      >
<!ELEMENT cl-abstract          EMPTY                      >
<!ELEMENT cl-drawings          EMPTY                      >

```

```

<!ELEMENT cl-sequence-listing EMPTY >
<!ATTLIST cl-sequence-listing quantity CDATA #REQUIRED >

<!ELEMENT cl-fee-calculation EMPTY >

<!ELEMENT cl-separate-power-of-attorney EMPTY >
<!ATTLIST cl-separate-power-of-attorney quantity CDATA #REQUIRED >

<!ELEMENT cl-general-separate-power-of-attorney EMPTY >
<!ATTLIST cl-general-separate-power-of-attorney quantity CDATA #REQUIRED >

<!ELEMENT cl-copy-separate-power-of-attorney EMPTY >
<!ATTLIST cl-copy-separate-power-of-attorney quantity CDATA #REQUIRED >

<!ELEMENT cl-lack-of-signature EMPTY >
<!ATTLIST cl-lack-of-signature quantity CDATA #REQUIRED >

<!ELEMENT cl-priority-document EMPTY >
<!ATTLIST cl-priority-document quantity CDATA #REQUIRED >

<!ELEMENT cl-translation-of-application EMPTY >
<!ATTLIST cl-translation-of-application quantity CDATA #REQUIRED >

<!ELEMENT cl-biological-material EMPTY >
<!ATTLIST cl-biological-material quantity CDATA #REQUIRED >

<!ELEMENT cl-other-document EMPTY >
<!ATTLIST cl-other-document quantity CDATA #REQUIRED doc-names CDATA #IMPLIED >

<!-- Figure of the drawings which should accompany the abstract --&gt;
&lt;!ELEMENT figure-to-publish (fig-number+) &gt;
&lt;!ELEMENT fig-number (#PCDATA) &gt;

<!-- language of filing of the international application --&gt;
<!-- ISO639 language code, e.g., en,de,ja,, --&gt;
&lt;!ELEMENT language-of-filing (#PCDATA) &gt;

<!-- signatories --&gt;
&lt;!ELEMENT signatories (signatory+) &gt;
&lt;!ELEMENT signatory (%nam;, electronic-signature, signatory-capacity?) &gt;

&lt;!ELEMENT electronic-signature (basic-signature | enhanced-signature) &gt;
&lt;!ATTLIST electronic-signature date CDATA #REQUIRED
          place-signed CDATA #IMPLIED &gt;

&lt;!ELEMENT signatory-capacity (#PCDATA) &gt;
&lt;!ELEMENT basic-signature (fax-image | text-string | click-wrap) &gt;
&lt;!ELEMENT enhanced-signature (pkcs7) &gt;
&lt;!ELEMENT fax-image EMPTY &gt;
</pre>

```

```

<!ATTLIST fax-image
    file      CDATA      #REQUIRED      >
<!ELEMENT text-string      (#PCDATA)      >
<!ELEMENT click-wrap      EMPTY      >
<!ELEMENT pkcs7      EMPTY      >

<!-- Office is the ST.3 country code, including the regional authorities.      -->
<!-- Office-dtd is the file which contains the DTD for the office-specific      -->
<!-- elements.      -->

<!ELEMENT office-specific-data      EMPTY      >
<!ATTLIST office-specific-data
    office      CDATA      #REQUIRED      >
    office-dtd  CDATA      #REQUIRED      >

<!-- common elements      -->
<!-- Document, application identification group      -->
<!ELEMENT document-id      (country,doc-number,name?,kind?,date?)      >

<!-- Document number      -->
<!--     In case of application ; application number      -->
<!--     In case of publication ; publication number      -->
<!--     In case of grant patent; patent number      -->
<!ELEMENT doc-number      (#PCDATA)      >

<!-- kind code,      -->
<!ELEMENT kind      (#PCDATA)      >

<!-- date, YYYYMMDD, e.g., 20011230      -->
<!ELEMENT date      (#PCDATA)      >

<!--      DOC-PAGE - DOCument or PAGE
      This is primarily to be used when data for 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
      <image> may also be used for complete pages, eg. in drawings      -->
<!ELEMENT doc-page      EMPTY      >
<!ATTLIST doc-page
    id      ID      #REQUIRED
    he      NMTOKEN #REQUIRED
    wi      NMTOKEN #REQUIRED
    type   (jpg | tiff | jifif | pdf | jpeg | tif)      #REQUIRED
    alt    CDATA   #IMPLIED
    label  CDATA   #IMPLIED
    pp    CDATA   #IMPLIED
    ppf   CDATA   #IMPLIED
    ppl   CDATA   #IMPLIED
    file  CDATA   #REQUIRED
    color (color | bw)   #IMPLIED      >

<!-- END OF DTD      -->

```

### 3.2 Application body

```
<!--
*****
* APPLICATION-BODY v0.31 2001 JUNE
*****
* public "-//wipo//dtd application-body v0.31 2001-06-01/en"
*****
* contacts:
* EPO: Paul Brewin; pbrewin@epo.org
* JPO: Mitsuru Sono; sono-mitsuru@jpo.go.jp
* USPTO: Bruce B. Cox; bruce.cox@uspto.gov
* WIPO: Shiro Ankyu; shiro.ankyu@wipo.int
*
*****
* revision history
*****
```

Revision 0.31 1 June 2001 PB  
 .. changed abstract and title to optional  
 .. changed version to v0.31  
 .. added <abstract-figure> and <figno> elements to cater for the abstract drawing as an image or simply reference the figure number in the drawings sub-document.  
 .. changed rel to rel-passage and added further elements for search reports  
 .. cosmetics and result of authoring an example app.  
 .. added break <br> to highlight elements: b, i, smallcaps  
 .. removed sup and sub from b, i, u, possible to have these within sub and sup. Leaving them in would mean it would be possible to have a <sup> of a <sup> within <b> bold for example  
 .. changed style to list-style for <ul> so it does not conflict with other style attributes  
 .. residence, nationality - taken out of addressbook (conflict with other dtds eg. applicant, inventor)  
 .. changed addressbook syntax (small change)

Revised 10 May 2001 PB - minor changes: date, headings, some ids, mathml copyright statement

Revised 2001-04-27 - Trilateral meeting, EPO, JPO, USPTO and WIPO, in Washington and Geneva, April 2001  
 .. changed version to v0.3  
 .. changed order of sub-documents  
 .. changed headers to limit to heading with level attribute, removed h1 - h3  
 .. changed biocit to bio-deposit and modified  
 .. changed several attribute names in order to standardise them  
 .. chnaged date content  
 .. added document-id to standardise all refs. to patent documents  
 .. added crossref to allow cross referencing (linking) to any identified element  
 .. added id attributes to most elements  
 .. added pubdate for citations  
 .. removed sequence listing definition to epct-dossier level as external file  
 .. removed pre - preformatted text  
 .. removed imageref replaced by crossref  
 .. added mathml (W3C)  
 .. added st33 and st35 to image formats  
 .. several other minor modifications and clean ups.  
 .. modified dtd structure for XML Console use

Revised 2001 6-15 March - PB, SA  
 .. changed version to v0.21

```

.. changed wo-application to application-body since it MUST now be
  contained in an epct-dossier.dtd and application.dtd wrapper;
  added country attribute for 'safety'.
.. changed title to invention-title - request JPO
.. changed description content to PCT Rule 5 only - request JPO
  - FOR DISCUSSION
.. changed la to lang - language attribute - request JPO
.. changed <UL> style attribute - request JPO
.. changed headers to limit to h1 to h3
.. changed Table to CALStable (within table tag)
.. added heading tag
.. changed sequence listing definition to reference external file
.. added br to p - request JPO
.. removed wo-amended (claims) - request JPO
.. removed mathML - request JPO - to be discussed
.. added possibility of different formats for each sub-document -
  doc-page eg. tiff, pdf
.. various other cosmetic and small changes

```

Revised 2001 January 24-27 Paul Brewin, Jan Bleeker,EPO,  
 Shiro Ankyu, WIPO  
 .. changed version to v0.2  
 .. substantially modified many tags, added attributes, added tags  
 to reflect PCT requirements better and those of other offices  
 please see notes below at tag level  
 .. major new sections are: additional sub-sections within  
 description, citations, address book, table, mathML

Revised 2000 June 7, Shiro Ankyu, WIPO, and John Godman, WIPO  
 ..changed version to v0.11  
 ..changed encoding to "UTF-8"  
 ..modified WO-DESCRIPTION structure  
 ...in order to more closely reflect Annex F, Appen  
 Created 2000 May 26,  
 Bruce B. Cox, USPTO, Paul Brewin, EPO, and Shiro Ankyu, WIPO  
 ..set version to v0.1  
 ...creation of new DTD; see Trilateral Meeting, the Hague, 2000 April  
 17-19, Report of the DTD Subgroup

```

-->
<!-- **** XML VERSION FOR FILING OF PCT APPLICATIONS ****
* it may be utilised by other offices as required
*
* This is a working draft - IT IS NOT RECOMMENDED TO USE
* IN PRODUCTION SYSTEMS YET
* it has to be validated against real documents
*
* It is intended for a) Online Filing b) (later) publication, etc
* within the context of a new version of ST.32 (ST.32X)
* In developing this DTD we have taken into consideration:
* - version 0.11 of this dtd
* - ST32 version 3
* - Variations of ST.32 in: WIPO, USPTO, MIMOSA, etc
* - USPTO EFS dtd
* - Trilateral Common data dictionary
* - ISO 12083 dtds, etc
**** -->
<!-- **** SECTION I - DECLARATION, ENT. REFS, ISO sets, etc
* TO BE ADDED
* or part of dossier dtd ??
**** -->
<!-- **** SECTION II - DTD
**** -->

```

```

<!--DOCTYPE application-body [   !!commented out - part of dossier.dtd      -->
<!-- Grouped entities;  name group                                         -->

<!ENTITY % nam "((name) | (prefix? , last-name , first-name , middle-name? ,
                     suffix? , iid? , role? , orgname? , department? , synonym*)),
(registered-number?))" >

<!--
v0.31 14 May 2001 - 17:54

APPLICATION-BODY

PCT Art 3(2) states
"(2) An international application shall contain, as specified
in this Treaty and the Regulations, a request, a
description, one or more claims, one or more drawings
(where required), and an abstract."
The Request is dealt with by a separate DTD since it will be
handled by form filling software and requires different
processing later.
The main application will be authored by the applicant as one
word processor file, the order follows general practice today.
The sequence list (although part of the description) is a
separate sub-document which will reference an ST.25 compliant
file.

-->
<!ELEMENT application-body ((doc-page+ | (description , claims , abstract? ,
drawings?))>

<!-- Attributes:
      id          = unique id for this application - could be file name
      country     = st.3 code for application
      dtd-version = dtd version number
      lang         = language of application - use two letter st.3 codes
      status       = status of the application; values:
                      n = new application
      file         = filename of the whole application
-->
<!ATTLIST application-body
      id          ID      #REQUIRED
      country     CDATA   #REQUIRED
      dtd-version CDATA   #REQUIRED
      lang         CDATA   #REQUIRED
      status       CDATA   #REQUIRED
      file         CDATA   #IMPLIED
>

<!-- * DOC-PAGE - DOCument or PAGE
This is primarily to be used when data for the whole or
major sections
of an application are in image format OR other formats such
as pdf. Page range attributes are given when required
pp- page range ppf - first page ppl - last page (for pdf)
The <image> may also be used for complete pages, eg. in drawings -->
<!ELEMENT doc-page EMPTY>
<!ATTLIST doc-page
      id          ID      #REQUIRED
      he          NMOKEN #REQUIRED
      wi          NMOKEN #REQUIRED
      type        (jpg | tiff | jfif | pdf | jpeg | tif ) #REQUIRED
      alt         CDATA   #IMPLIED
      label       CDATA   #IMPLIED
      pp          CDATA   #IMPLIED
      ppf         CDATA   #IMPLIED
      ppl         CDATA   #IMPLIED
      file        CDATA   #REQUIRED
      color       (color | bw ) #IMPLIED
>

<!-- * DESCRIPTION

```

Rule 5 states that the description must contain a title "as appearing in the request" - need to check REQUEST dtd for compliance / cross posting  
 The sub-headings although mentioned in Rule 5 and AI section 204 are NOT compulsory  
 The description could merely contain paragraphs- after title.  
 For this version of the DTD ONLY the PCT headings are listed below.

Other headings need discussion (see below) --->

```
<!ELEMENT description      (doc-page+ | (invention-title? , (technical-field |
                                              background-art | description-of-drawings|disclosure |
                                              best-mode | mode-for-invention |
                                              industrial-applicability |
                                              sequence-list-text | (heading* , p+)+)+)) >

<!ATTLIST description
      id          ID      #REQUIRED
      lang        CDATA   #IMPLIED >

<!ELEMENT invention-title (#PCDATA | b | i | u | sup | sub)* >
<!ATTLIST invention-title
      id          ID      #REQUIRED
      lang        CDATA   #IMPLIED >

<!ELEMENT technical-field (heading* , p+)+ >
<!ATTLIST technical-field
      id          ID      #REQUIRED >

<!-- * Background art, background of the invention -->
<!ELEMENT background-art (heading* , p+)+ >
<!ATTLIST background-art
      id          ID      #REQUIRED >

<!-- Disclosure of the invention;
     with sub-headings:;
     technical problem;
     technical solution;
     advantageous effects (of the invention); -->
<!ELEMENT disclosure      ((tech-problem |tech-solution |advantageous-effects)*|
                           (heading* , p+)+) >
<!ATTLIST disclosure
      id          ID      #REQUIRED >

<!ELEMENT tech-problem    (heading* , p+)+ >
<!ATTLIST tech-problem
      id          ID      #REQUIRED >

<!ELEMENT tech-solution   (heading* , p+)+ >
<!ATTLIST tech-solution
      id          ID      #REQUIRED >

<!ELEMENT advantageous-effects (heading* , p+)+ >
<!ATTLIST advantageous-effects
      id          ID      #REQUIRED >

<!ELEMENT description-of-drawings (heading* , p+)+ >
<!ATTLIST description-of-drawings
      id          ID      #REQUIRED >

<!ELEMENT best-mode       (heading* , p+)+ >
<!ATTLIST best-mode
      id          ID      #REQUIRED >

<!ELEMENT mode-for-invention (heading* , p+)+ >
<!ATTLIST mode-for-invention
      id          ID      #REQUIRED >
```

```

<!ELEMENT industrial-applicability (heading* , p+)* >
<!ATTLIST industrial-applicability
      id          ID      #REQUIRED >

<!--
   Sequence listing free text
   WIPO ST.25:
   "36. Where the sequence listing part of the description
   contains free text, any such free text shall be repeated in
   the main part of the description in the language thereof.
   It is recommended that the free text in the language of the
   main part of the description be put in a specific section
   of the description called "Sequence Listing Free Text". -->

<!ELEMENT sequence-list-text (heading* , p+)* >
<!ATTLIST sequence-list-text
      id          ID      #REQUIRED >

<!-- CLAIMS -->
<!ELEMENT claims      (doc-page+ | claim+)* >
<!ATTLIST claims
      lang        CDATA   #REQUIRED
      id          ID      #REQUIRED
      country     NMTOKEN #IMPLIED
      status       CDATA   #IMPLIED >

<!ELEMENT claim        (claim-text+)* >
<!ATTLIST claim
      id          ID      #REQUIRED
      num         CDATA   #REQUIRED >

<!-- Claim text is used for sub-para indentation -->
<!ELEMENT claim-text    (#PCDATA | claim-text | claim-ref | b | i | u |
                         sup | sub | smallcaps | br | crossref |
                         image | chemistry | math | table)* >

<!ELEMENT claim-ref     (#PCDATA) >
<!ATTLIST claim-ref
      idref       IDREFS  #REQUIRED >

<!-- ABSTRACT (Rule 8)
      this needs linking some way to the REQUEST figure indicator. -->

<!ELEMENT abstract      (doc-page+ | (abst-problem , abst-solution) | p+)* >
<!ATTLIST abstract
      id          ID      #REQUIRED
      lang        CDATA   #IMPLIED
      country     CDATA   #IMPLIED >

<!ELEMENT abst-problem  (p+)* >
<!ATTLIST abst-problem
      id          ID      #REQUIRED >

<!ELEMENT abst-solution (p+)* >
<!ATTLIST abst-solution
      id          ID      #REQUIRED >

<!-- DRAWINGS
      PCT Article 7 / Rule 7 -->
<!ELEMENT drawings      (doc-page+ | figure+)* >
<!ATTLIST drawings
      id          ID      #REQUIRED
      lang        CDATA   #IMPLIED

```

```

country          NMOKEN #IMPLIED
status          CDATA  #IMPLIED >

<!ELEMENT figure      (image) >
<!ATTLIST figure
  id      ID      #REQUIRED
  num    CDATA  #REQUIRED >

<!-- * HEADINGS -->
<!ELEMENT heading     (#PCDATA | b | i | u | sup | sub | smallcaps)* >
<!-- Limit to 3 as for Word default, id recommended - "h1" -->
<!ATTLIST heading
  level   (1 | 2 | 3 ) #IMPLIED
  id      ID      #REQUIRED >

<!-- * PARAGRAPHS -->
<!ELEMENT p           (#PCDATA | b | i | u | sup | sub | smallcaps | br
                      | dl | ul | ol| patcit | nplcit | bio-deposit |
                      crossref | image | chemistry | math | table)* >
<!-- recommended - id="p1"; num="0001" ; id is permanent, num can be
renumbered -->
<!ATTLIST p
  id      ID      #REQUIRED
  num    CDATA  #REQUIRED >

<!-- IMAGE DATA
Note: image is used for any kind of image: art work, figures, complex
maths, tables, etc. -->
<!ELEMENT image        EMPTY >

<!-- recommended - id="img1";
      he, wi="11" - milimeters - height, width;
      file = file name,location;
      label - not used;
      alt - alternative text if image not shown;
      img-content - drawing is the default;
      img-format - common will be tiff, st33 and st35 in for backward
compatiblity and, later, publication. -->
<!ATTLIST image
  id      ID      #REQUIRED
  he      NMOKEN #REQUIRED
  wi      NMOKEN #REQUIRED
  file   CDATA  #REQUIRED
  label   CDATA  #IMPLIED
  alt     CDATA  #IMPLIED
  img-content (drawing | photograph |character | dna| undefined )
              "drawing"
  img-format (jpeg | tiff | jfif | st33 | st35 ) #REQUIRED >

<!-- * bold -->
<!ELEMENT b            (#PCDATA | i | u | smallcaps | br)* >
<!-- * italic -->
<!ELEMENT i            (#PCDATA | b | u | smallcaps | br)* >
<!-- * underscore -->
<!ELEMENT u            (#PCDATA | b | i | smallcaps)* >
<!-- * Underscore attribute: style - single is default -->
<!ATTLIST u
  style   (single | double | dash | dots ) "single" >
<!-- * Superscript attribute: position (post) -->
<!ELEMENT sup          (#PCDATA | b | u | i)* >

```

```

<!ELEMENT sub          (#PCDATA | b | u | i)* >
<!-- * Small capitals -->
<!ELEMENT smallcaps    (#PCDATA | b | u | i| br)* >
<!-- * br - break, line break within a paragraph -->
<!ELEMENT br           EMPTY >
<!-- * DEFINITION LISTS
     restrict content of dt - definition term -->
<!ELEMENT dl           (dt , dd)+ >
<!ATTLIST dl
  tsize      NMOKEN #IMPLIED
  compact    (compact) #IMPLIED
  id         ID      #REQUIRED >
<!--Term to be defined -->
<!ELEMENT dt           (#PCDATA | b | i | u | sup | sub | smallcaps)* >
<!ATTLIST dt
  id         ID      #REQUIRED >
<!--Definition of the term -->
<!ELEMENT dd           (#PCDATA | b | i | u | sup | sub | smallcaps | br |
  patcit | nplcit | bio-deposit | crossref |
  image | ul | ol | chemistry | math | table)* >
<!-- * ORDERED LISTS, for now the default will be
     recommended style first level - 1. 2. 3. etc.
     For lists within lists -
     second level - a. b. c.
     for third level - i. ii. iii.:
     These are style sheet issues but these are recommended for consistency. -->
<!ELEMENT ol            (li+) >
<!ATTLIST ol
  id         ID      #REQUIRED
  compact    (compact ) #IMPLIED >
<!-- * UNORDERED LISTS
     default is 'bullets'
     style may be empty for lists with no bullet or other symbol -->
<!ELEMENT ul            (li+) >
<!ATTLIST ul
  id         ID      #REQUIRED
  list-style (bullet | dash | none ) 'bullet'
  compact    (compact ) #IMPLIED >
<!-- * LIST item -->
<!ELEMENT li            (#PCDATA | b | i | u | sup | sub | smallcaps | br |
  patcit | nplcit | bio-deposit | crossref |
  image | dl | ul | ol | chemistry | math | table)* >
<!ATTLIST li
  id         ID      #REQUIRED >
<!-- * CHEMISTRY
     Chemical formulae, ring structures, Markush structures etc
     For now treat as image data.
     Depending on industry support we may have eg. chemML, CML later -->
<!ELEMENT chemistry      (image) >
<!-- recommended - id="ch1" -->
<!ATTLIST chemistry
  id         ID      #REQUIRED
  num       CDATA  #REQUIRED >

```

```

<!-- * MATHEMATICS
   This is image data or coded according to mathml version 2,          -->
<!ELEMENT math           (image | MathML)                                >

<!-- recommended - id="m1"                                         -->
<!ATTLIST math
    id          ID      #REQUIRED
    num         CDATA   #REQUIRED                                >

<!-- * MATHEMATICS                                                 -->
<!-- MathML 2.0 DTD

This is the Mathematical Markup Language (MathML) 2.0, an XML
application for describing mathematical notation and capturing
both its structure and content.

Copyright 1998-2000 World Wide Web Consortium
(Massachusetts Institute of Technology, Institut National de
Recherche en Informatique et en Automatique, Keio University).
All Rights Reserved.

Permission to use, copy, modify and distribute the XHTML 1.1 DTD and
its accompanying documentation for any purpose and without fee is
hereby granted in perpetuity, provided that the above copyright
notice and this paragraph appear in all copies.
The copyright holders make no representation about the suitability
of the DTD for any purpose.

It is provided "as is" without expressed or implied warranty.

Revision: $Id: parsing.xml,v 1.34 2000/12/14 13:08:43 davidc Exp $

This entity may be identified by the PUBLIC and SYSTEM identifiers:

PUBLIC "-//W3C//DTD MathML 2.0//EN"
SYSTEM "mathml2.dtd"

To be added in later - in order to keep this ver. of DTD smaller, see:
http://www.w3.org/TR/MathML2/
-->
<!ELEMENT MathML           EMPTY                                >

<!-- * TABLES
   This is image data or coded according to CALStable exported
   from USPTO EFS with modified cell <entry> content
-->
<!ELEMENT table           (image | CALStable)                  >

<!-- recommended - id="t1"                                         -->
<!ATTLIST table
    id          ID      #REQUIRED
    num         CDATA   #REQUIRED                                >

<!ELEMENT CALStable       (heading , TGroup+)                 >
<!ATTLIST CALStable
    frame        (top | bottom | topbot | all | sides | none ) #IMPLIED
    colsep       NMTOKEN #IMPLIED
    rowsep       NMTOKEN #IMPLIED
    pgwide       NMTOKEN #IMPLIED                                >

<!ELEMENT TGroup          (colspec* , spanspec* , thead? , TBody) >
<!ATTLIST TGroup
    cols         CDATA   #REQUIRED
    colsep       NMTOKEN #IMPLIED
    rowsep       NMTOKEN #IMPLIED
    align        (left | right | center | justify | char ) #IMPLIED >

```

```

<!ELEMENT colspec      EMPTY
<!ATTLIST colspec
    colnum        CDATA      #IMPLIED
    colname       CDATA      #IMPLIED
    colwidth      CDATA      #IMPLIED
    colsep        NMOKEN    #IMPLIED
    rowsep        NMOKEN    #IMPLIED
    align         (left | right | center | justify | char )  #IMPLIED
    char          CDATA      #IMPLIED
    charoff       CDATA      #IMPLIED
                >

<!ELEMENT spanspec    EMPTY
<!ATTLIST spanspec
    namest        CDATA      #REQUIRED
    nameend       CDATA      #REQUIRED
    spanname      CDATA      #REQUIRED
    align         (left | right | center | justify | char )  'center'
    colsep        NMOKEN    #IMPLIED
    rowsep        NMOKEN    #IMPLIED
                >

<!ELEMENT thead        (Row+)
<!ATTLIST thead
    valign        (top | middle | bottom )  #IMPLIED
                >

<!ELEMENT TBody        (Row+)
<!ATTLIST TBody
    valign        (top | middle | bottom )  #IMPLIED
                >

<!ELEMENT Row           (Entry+)
<!ATTLIST Row
    rowsep        NMOKEN    #IMPLIED
    valign        (top | middle | bottom )  #IMPLIED
                >

<!-- * Changed to add other elements in entry -->
<!ELEMENT Entry         (#PCDATA | b | i | u | sup | sub | smallcaps | br |
    patcit | nplcit | bio-deposit | crossref | image |
    dl | ul | ol | chemistry | math)*
                >

<!ATTLIST Entry
    colname       NMOKEN    #IMPLIED
    namest        NMOKEN    #IMPLIED
    nameend       NMOKEN    #IMPLIED
    morerows      CDATA      #IMPLIED
    colsep        NMOKEN    #IMPLIED
    rowsep        NMOKEN    #IMPLIED
    align         (left | right | center | justify | char )  #IMPLIED
    char          CDATA      #IMPLIED
    charoff       CDATA      #IMPLIED
    valign        (top | middle | bottom )  #IMPLIED
                >

<!-- * PATENT CITATIONS
    Patent Citation within abstract, description or claims
    for pat. 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).

    Attributes (recommended)::;
    id - use pcit1, pcit2, etc;
    dnum - use full number as one string, eg, "US5401234A";
    url - where possible give full web link to patent
;
    Example:<patcit id="pcit1" dnum="US4793675A">
                <document-id><country>US</country>

```

```

<doc-number>4793675</doc-number><kind>A</kind><name>Handa</name>
<date>19881227</date></document-id></patcit>
;

Note: it is NOT expected that the applicant will create the
tagged data - it could be generated from a 'pull down'
data entry form or generated from internal SR databases      -->
<!ELEMENT patcit (text | (document-id , rel-passage*))>

<!-- Attributes (recommended)::;
    id - use pcit1, pcit2, etc;
    dnum - use full number as one string, eg, "US5401234A";
    url - where possible give full web link to patent
    file - file name eg. if stored on local systems      -->
<!ATTLIST patcit
    id          ID      #REQUIRED
    dnum        CDATA   #IMPLIED
    url         CDATA   #IMPLIED
    file        CDATA   #IMPLIED
                >

<!ELEMENT text          (#PCDATA)                                >

<!-- Document identification refers to patents only and
    is used in several other dtds it should not be changed
    without consultation with WIPO;      -->
<!ELEMENT document-id (country , doc-number , kind? , name? , date?)>

<!ELEMENT doc-number     (#PCDATA)                                >

<!-- * doc. kind code eg A1      -->
<!ELEMENT kind          (#PCDATA)                                >

<!-- * 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?)+) >

<!ELEMENT passage       (#PCDATA)                                >

<!ELEMENT category      (#PCDATA)                                >

<!ELEMENT rel-claims    (#PCDATA)                                >

<!--
    * Non-Patent Literature (NPL) CITation;
    Notes::;
    This can be free text data without any structure (#PCDATA)
    which is NOT recommended
    or it can be highly structured data which is marked up
    according to ST.14 and ISO 690 layout
    ;
    This part of the DTD has used many different sources
    for element names and DTD structure and reference:
    AACR2 / MARC
    ISO 12083 - Electronic manuscript prep. and markup. DTD
    Association of American Publishers (AAP) Z39.59 DTD
    European Working Group for SGML (EWS) MAJOUR DTD
    SuperJournal Full Article DTD www.superjournal.ac.uk/sj
    Elsevier DTD
    Medline DTD (NLM)      -->

<!ELEMENT nplcit        ((text) | (article | book | online | othercit)*) >

<!-- Attributes (recommended)::;
    id - ncit1, ncit2, etc
    num - 0001, 0002
    The TYPE of citation is office specific:

```

```
(recommended):;
A - Abstract citation of no specific kind
B - Book citation
I - Biological abstract citation
C - Chemical abstracts citation
E - Database citation
D - Derwent citation
P - Patent cited within NPL group
J - Patent Abstracts of Japan citation (REC 067)
S - Serial / Journal / Periodical citation
W - World Wide Web / Internet search citation
```

medium - the type of medium eg.

CD (CD-ROM), MT (Magnetic Tape), DISK, ONLINE  
file - file name on local systems eg. XP number in EPO  
url - where possible give full web link to document

-->

<!ATTLIST nplcit

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

>

<!--

ARTICLE CITATIONS within a 'host' document  
After patent citations the most common citations are  
articles within serials (periodicals, magazines), books and  
electronic (eg. internet) sources.  
This is a very complex and varied area to standardise.  
The tag set below is drawn from a number of sources as is  
the order of the tags (which in any case can be changed  
depending on the stylesheet used);

The order of tags is that of WIPO ST.14 / ISO 690 layout

DROP, J.G. Integrated Circuit Personalization at  
the Module Level. IBM Tech. Dis. Bull. October 1974,  
Vol. 17, No. 5, p. 1344 and 1345.  
[XPnnnnnnnnnnnn].

```
nplcit id="ncit1" num="0012" type="S" file="XP1234456">
  <article>
    <author>
      <name>DROP, J.G.</name></author>
    <atl>
      Integrated Circuit Personalization at the Module Level
    </atl>
    <serial>
      <sertitle>IBM Tech. Dis. Bull.</sertitle>
      <pubdate>19741000</pubdate>
      <vid>17</vid>
      <ino>5</ino>
    </serial>
    <location><pp>1344 and 1345</pp></location>
    <refno id="XP1">XP1234456</refno>
  </article>
</nplcit>
```

Note: it is NOT expected that the applicant will create the  
tagged data - it can be generated from a 'pull down'  
data entry form (eg. in Word) or generated from  
internal SR databases

-->

```
<!ELEMENT article ((text) | (author* , atl? , subname? ,
  (serial | book) , absno? , location? , class* ,
  keyword* , cpyrt? , artid? , refno*))>
```

```

<!-- * AUTHOR
    Prime responsibility for the work
    there is no distinguishing between personal and corporate auths
    <AUTHOR>s followed by:
    %nam; or addressbook entry
    use the ID attribute if, for example, there is a need to
    distinguish between multiple authors. Can also include
    affiliation details -->
<!ELEMENT author      ((%nam;) | (addressbook))          >
<!ATTLIST author
    id           ID      #IMPLIED                         >

<!-- * Article title -->
<!ELEMENT atl        (#PCDATA)                         >

<!-- * Subordinate responsibility
    This can be, eg. : editor, translator, etc -->
<!ELEMENT subname    ((%nam;) | addressbook)          >

<!-- * SERIAL CITATION DATA
    This describes the volume or issue as a whole and not a
    particular article within it. -->
<!ELEMENT serial     (sertitle , alttitle? , subname? , issue? , imprint? ,
                      pubdate? , descrip? , notes? , issn? ,
                      isbn? , pubid? , vid? , ino? , cpyrt?)      >

<!-- * Serial title -->
<!ELEMENT sertitle   (#PCDATA)                         >

<!-- * Alternate title for serial eg. BMJ = British Medical Journal -->
<!ELEMENT alttitle   (#PCDATA)                         >

<!-- * Issue designation
    This can be, eg. : Annual, 1971-, 1890-1972 -->
<!ELEMENT issue      (#PCDATA)                         >

<!-- * IMPRINT
    Publication / creation data
    Place of publication : publisher, date(s) of publication
    usually only date of publication is used for journal citations -->
<!ELEMENT imprint    ((text) | (address? , name , pubdate*))      >

<!-- * Physical description - generally NOT used in citations in pats.
    eg. v., 27cm -->
<!-- * PUBDATE: Components of a date in npl citations - sdate etc
    defined in date -->
<!ELEMENT pubdate    (#PCDATA | sdate | edate | time)*          >

<!ELEMENT descrip   (#PCDATA)                         >

<!-- * Notes about the journal eg. Continues Journal of XYZ 1910-1998,
    published in French and English, etc. -->
<!ELEMENT notes     (#PCDATA)                         >

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

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

<!-- * Publisher's unique id added 11.2000 PB ISO 12083 -->
<!ELEMENT pubid    (#PCDATA)                         >

<!-- * Volume id/number -->

```

```

<!ELEMENT vid          (#PCDATA)                                >
<!-- * Issue number -->
<!ELEMENT ino          (#PCDATA)                                >

<!-- * Copyright info. copyright of publisher of serial -->
<!ELEMENT cpyrt        (#PCDATA)                                >

<!-- * Abstract number -->
<!ELEMENT absno        (#PCDATA)                                >

<!-- * Location within the work -->
<!ELEMENT location     ((text) | (serpart? , sersect? , chapter? ,
                                pp? , column? , para? , line?))      >

<!-- * Part in a serial ISO 12083 -->
<!ELEMENT serpart      (#PCDATA)                                >

<!ELEMENT sersect      (#PCDATA)                                >

<!ELEMENT chapter      (#PCDATA)                                >

<!-- * Page numbers ppf - first, ppl - last -->
<!ELEMENT pp            (#PCDATA | ppf | ppl)*               >

<!ELEMENT ppf          (#PCDATA)                                >

<!ELEMENT ppl          (#PCDATA)                                >

<!-- * Column, para(graph) and line numbers -->
<!ELEMENT column        (#PCDATA | colf | coll)*             >

<!ELEMENT colf         (#PCDATA)                                >

<!ELEMENT coll         (#PCDATA)                                >

<!ELEMENT para          (#PCDATA | paraf | paral)*           >

<!ELEMENT paraf         (#PCDATA)                                >

<!ELEMENT paral         (#PCDATA)                                >

<!ELEMENT line          (#PCDATA | linef | linel)*            >

<!ELEMENT linef         (#PCDATA)                                >

<!ELEMENT linel         (#PCDATA)                                >

<!-- * Classification code eg. ipc, dewey etc. -->
<!ELEMENT class         (#PCDATA)                                >

<!-- * Keywords eg. from a Thesaurus or class. scheme -->
<!ELEMENT keyword        (#PCDATA)                                >

<!-- * HISTORY of the article (not serial)
    date received/accepted/revised
    preferred: yyyyymmdd
    Group added 11/2000 PB from ISO 12083 -->
<!ELEMENT history        ((text) | (received | accepted | revised | misc)) >
<!ELEMENT received       (date)                                 >
<!ELEMENT accepted       (date)                                 >
<!ELEMENT revised        (date)                                 >
<!ELEMENT misc           (#PCDATA | date)*                  >

```

```

<!-- * Article unique ID - assigned by a publisher to an article
     added 11/2000 PB from ISO 12803 -->
<!ELEMENT artid      (#PCDATA) >

<!-- Reference no. (general) for the EPO this is the XP number -->
<!ELEMENT refno      (#PCDATA) >
<!ATTLIST refno
    id          ID      #REQUIRED >
<!--

BOOK CITATION (MONOGRAPH)
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*))) >
<!ELEMENT book-title (#PCDATA) >
<!ELEMENT subtitle   (#PCDATA) >
<!-- * Edition statement -->
<!ELEMENT edition   (#PCDATA) >
<!-- * Subordinate responsibility
     This can be, eg. : editor, translator, etc
     Note this does not follow AACR2 rules
     subname - defined above
     imprint      - described above
     descrip      - described above -->
<!-- * Series statement -->
<!ELEMENT series   ((text) | (mst , msn? , issn?)) >
<!-- * Monographic series title and number -->
<!ELEMENT mst      (#PCDATA) >
<!ELEMENT msn      (#PCDATA) >
<!-- * book number -->
<!ELEMENT bookno   (#PCDATA) >
<!--

CONFERENCE GROUP / CITATION
There is no standard way of citing conference proceedings
date of the conf. may come before or after place for example
The tags are specified in a set order where it is not
possible or correct then simply use <CONFERENCE>

```

```

and no sub tags                                -->

<!ELEMENT conference   ((text) | (conftitle , date? , confno? ,
                           confplace? , confsponsor*))           -->
                                         >

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

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

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

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

<!-- * ONLINE CITATION
     (previously DBASECIT)
     This section completely 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.
    Body</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: &lt;iso.tc46.sc9@nlc-bnc.ca&gt;;
    </name></subname>
    <pubdate>3 October 2000; 13:33 EST</pubdate>
    <notes>Personal communication</notes>
    <avail>Message-ID: &lt;002f01c02d60$051a64a0$22a2580c@vaio&gt;;
    </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*)) >
<!ELEMENT online-title (#PCDATA)                                     >
<!-- *   TITLE of the HOST document/database                      -->
<!ELEMENT hosttitle     (#PCDATA)                                     >
<!ELEMENT hostno       (#PCDATA)                                     >
<!-- * Availability and access - REQUIRED
use for URL, online database, ftp address, email, etc. eg.
Available from Internet: http://www.epoline.org
Available from DIALOG Information Systems, Palo Alto (Calif.)          -->
<!ELEMENT avail        (#PCDATA)                                     >
<!-- * Date Cited - date on which the citation was cited
      it may be different from srchdate below                         -->
<!ELEMENT datecit      (date)                                       >
<!-- * Search terms                                              -->
<!ELEMENT srchterm     (#PCDATA)                                     >
<!-- * Date of search/retrieval^                                    -->
<!ELEMENT srchdate     (date)                                       >
<!-- * Other citations - free form                                -->
<!ELEMENT othercit     (#PCDATA)                                     >

<!--
BIOlogical deposit CITation
(US EFS: biological-deposit)
According to PCT Rule 13bis, EPC Rule 28
This covers all bio data references long and short
within the description and/or claims                                     -->
<!ELEMENT bio-deposit   (depositary , bio-accno , date? , term? , dtext?) >
<!ATTLIST bio-deposit
```

id	ID	#REQUIRED	
num	CDATA	#REQUIRED	
url	CDATA	#IMPLIED	
dnum	CDATA	#IMPLIED	>
<!ELEMENT depositary (#PCDATA   address)* >			
<!ELEMENT bio-accno (#PCDATA) >			
<!ELEMENT term (#PCDATA) >			
<!-- * Cross references to any other element -->			
<!ELEMENT crossref (#PCDATA) >			
<!ATTLIST crossref idref CDATA #REQUIRED >			
<!-- * ADDRESSBOOK COMPONENTS / GROUP TAG -->			
The LANG attribute is REQUIRED for eg.the JPO PCT Request where names and addresses may be repeated in two different languages. If no structure possible use text >			
<!ELEMENT addressbook ((%nam;, address , phone* , fax* , email* , url* , ead* , dttext?)  (text)) >			
<!ATTLIST addressbook lang CDATA #IMPLIED >			
<!-- * NAME if no distinction or detail can be given. Also to be used for: personal (natural-person) and corporate (legal entity) names -->			
<!ELEMENT name (#PCDATA) >			
<!ATTLIST name type (legal   natural ) #REQUIRED >			
<!-- * Last, family, surname -->			
<!ELEMENT last-name (#PCDATA) >			
<!-- * First, given, name(s), initials eg. John, J. -->			
<!ELEMENT first-name (#PCDATA) >			
<!ELEMENT middle-name (#PCDATA) >			
<!-- * Title e.g., Mr., Mrs., Dr. etc -->			
<!ELEMENT prefix (#PCDATA) >			
<!-- * Suffix (e.g., II, Jr.Dip. Ing., BA, et al, etc. -->			
<!ELEMENT suffix (#PCDATA) >			
<!-- * Individual id -->			
<!ELEMENT iid (#PCDATA) >			
<!-- * Role, eg President added 02.11.2000 PB ISO 12083 -->			
<!ELEMENT role (#PCDATA) >			
<!-- * Organisation name or company name -->			
<!ELEMENT orgname (#PCDATA) >			
<!-- * Department,division,section, etc. name -->			
<!ELEMENT department (#PCDATA) >			
<!-- * Synonym, cross-reference -->			
<!ELEMENT synonym (#PCDATA) >			

```

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

<!-- * ADDRESS COMPONENTS
      Address formats differ from country to country
      If no structure possible use pctext -->

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

<!ELEMENT address-1    (#PCDATA) >

<!ELEMENT address-2    (#PCDATA) >

<!ELEMENT address-3    (#PCDATA) >

<!-- * Org. mail code -->
<!ELEMENT mailcode      (#PCDATA) >

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

<!ELEMENT room          (#PCDATA) >

<!ELEMENT floor          (#PCDATA) >

<!ELEMENT building        (#PCDATA) >

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

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

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

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

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

<!-- * Country use ST.3 country code eg. DE, FR, GB, NL - changed
      also, therefore, includes EP, WO -->
<!ELEMENT country          (#PCDATA) >

<!-- * Telephone number -->
<!ELEMENT phone            (#PCDATA) >

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

<!ELEMENT email            (#PCDATA) >

<!-- * Web page location- Universal Resource Locator
      www.wipo.int -->
<!ELEMENT url              (#PCDATA) >

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

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

```

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```
<!-- * DATE: Components of a date (date) YYYYMMDD -->
<!ELEMENT date (#PCDATA)>

<!-- * start date, end date used in pubdate -->
<!ELEMENT sdate (#PCDATA)>

<!ELEMENT edate (#PCDATA)>

<!ELEMENT time (#PCDATA)>

<!-- END OF DTD -->
```

### 3.3 Declaration

```

<!--
***** declaration v0.1    2001 APRIL *****
***** public "-//wipo//dtd declaration v0.1 2001-04-30/en" *****
***** contacts: *****
* EPO: Paul Brewin; pbrewin@epo.org *
* JPO: Mitsuru Sono; sono-mitsuru@jpo.go.jp *
* USPTO: Bruce B. Cox; bruce.cox@uspto.gov *
* WIPO: Shiro Ankyu; shiro.ankyu@wipo.int *
*****
***** revision history *****
***** Created 2001-04-26 *****
WIPO, EPO, USPTO      Geneva
-->

<!--DOCTYPE declaration [
-->
<!-- Define some entities
<!-- Name group entity, please see name element group for each elements
-->

<!ENTITY % nam   "((name | (prefix?,last-name,first-name,middle-name?,suffix?,
    iid?,role?,orgname?,department?,synonym*)),
    registered-number?)" >

<!-- DECLARATION
-->
<!ELEMENT declaration (doc-page+ | (identity-of-inventor+
    entitlement-filing-date+
    entitlement-priority-date+
    inventorship+
    lack-of-novelty+)) >

<!--type of declaration
  1: Declaration as to the identity of the inventor
  2: Declaration as applicant's entitlement, as at the international
     filing date, to apply for and be granted a patent
  3: Declaration as applicant's entitlement, as at the international
     filing date, to claim the priority of the earlier application
  4: Declaration of inventorship
  5: Declaration as to non-prejudicial disclosures or exceptions to
     lack of novelty
combined: Combined declaration 1 and 2
-->

<!ATTLIST declaration
  dec-type      (1 | 2 | 3 | 4 | 5 | combined ) #REQUIRED
  lang         CDATA #REQUIRED
  dtd-version  CDATA #IMPLIED
  date-produced CDATA #IMPLIED
  status        CDATA #IMPLIED
  file          CDATA #IMPLIED
-->

<!-- Declaration as to the identity of the inventor
-->
<!ELEMENT identity-of-inventor (application-reference?,( date | addressbook |
  (all-designations |
  all-designations-except-us |
  designated-states))+)
-->
```

```

<!ATTLIST identity-of-inventor
    sequence      CDATA      #REQUIRED
    lang         CDATA      #IMPLIED      >

<!-- Declaration as applicant's entitlement, as at the international -->
<!-- filing date, to apply for and be granted a patent -->

<!ELEMENT entitlement-filing-date (application-reference?,%nam;,matter+)      >
<!ATTLIST entitlement-filing-date
    sequence      CDATA      #REQUIRED
    lang         CDATA      #IMPLIED      >

<!ELEMENT matter      (date | %nam; | addressbook | court-name |
    kind-of-transfer| (all-designations |
    all-designations-except-us |
    designated-states))+      >
<!ATTLIST matter
    num          CDATA      #IMPLIED      >

<!ELEMENT kind-of-transfer (#PCDATA)      >
<!ELEMENT court-name (#PCDATA)      >
<!-- Declaration as applicant's entitlement, as at the international -->
<!-- filing date, to claim the priority of the earlier application -->

<!ELEMENT entitlement-priority-date (application-reference?,%nam;,
    earlier-app-reference,matter+)      >
<!ATTLIST entitlement-priority-date
    sequence      CDATA      #REQUIRED
    lang         CDATA      #IMPLIED      >

<!-- Declaration of inventorship -->

<!ELEMENT inventorship      (application-reference?,earlier-app-reference*,,
    inventor-info+,signatories?,dtext?)      >
<!ATTLIST inventorship
    sequence      CDATA      #REQUIRED
    lang         CDATA      #IMPLIED      >

<!ELEMENT inventor-info      (addressbook?,us-residence,
    authority-applicant?)      >
<!ELEMENT us-residence      (military-service | (us | non-us))      >
<!ELEMENT military-service (#PCDATA)      >
<!ELEMENT us      (city,state,country,citizenship?)      >
<!ELEMENT citizenship (#PCDATA)      >
<!ELEMENT non-us      (city,country,citizenship?)      >
<!ELEMENT authority-applicant (#PCDATA)      >

<!-- Declaration as to non-prejudicial disclosures or exceptions to -->
<!-- lack of novelty -->

<!ELEMENT lack-of-novelty      (application-reference?,%nam;, (date | address |
    title-of-disclosure | method-of-disclosure |
    dtext | (all-designations |
    designated-states))+)      >

```

```

<!ATTLIST lack-of-novelty
    sequence      CDATA      #REQUIRED
    lang          CDATA      #IMPLIED      >

<!ELEMENT title-of-disclosure (#PCDATA) >

<!ELEMENT method-of-disclosure (international-exhibition | publication |
    abuse | other) >

<!ELEMENT international-exhibition (#PCDATA) >

<!ELEMENT publication (#PCDATA) >

<!ELEMENT abuse (#PCDATA) >

<!ELEMENT other (#PCDATA) >

<!-- NAME if no distinction or detail can be given.
Also to be used for:
personal (natural-person) and corporate (legal entity) names --&gt;

&lt;!ELEMENT name (#PCDATA) &gt;
&lt;!ATTLIST name
    type (legal | natural) #REQUIRED &gt;

&lt;!-- *Title e.g., Mr., Mrs., Dr. etc* --&gt;
&lt;!ELEMENT prefix (#PCDATA) &gt;

&lt;!-- Last, family, surname --&gt;
&lt;!ELEMENT last-name (#PCDATA) &gt;

&lt;!-- First, given, middle name(s), initials
eg. John, John F., J.F, John Frederick --&gt;
&lt;!ELEMENT first-name (#PCDATA) &gt;
&lt;!ELEMENT middle-name (#PCDATA) &gt;

&lt;!-- * Suffix (e.g., II, Jr.Dip. Ing., BA, et al, etc. * --&gt;
&lt;!ELEMENT suffix (#PCDATA) &gt;

&lt;!-- * Individual id * --&gt;
&lt;!ELEMENT iid (#PCDATA) &gt;

&lt;!-- * Role, eg President added 02.11.2000 PB ISO 12083 * --&gt;
&lt;!ELEMENT role (#PCDATA) &gt;

&lt;!-- * Organisation name * --&gt;
&lt;!ELEMENT orgname (#PCDATA) &gt;

&lt;!-- * Department,division,section, etc. name * --&gt;
&lt;!ELEMENT department (#PCDATA) &gt;

&lt;!-- * Synonym, cross-reference * --&gt;
&lt;!ELEMENT synonym (#PCDATA) &gt;

&lt;!-- Applicant's, agent's registration number with the office --&gt;
&lt;!ELEMENT registered-number (#PCDATA) &gt;

<!-- addressbook : NAME and ADDRESS COMPONENTS / GROUP TAG

% nam "((name | (prefix?,last-name,first-name,middle-name?,suffix?,
    iid?, role?,orgname?,department?,synonym*)),registered-number?)"
</pre>

```

The lang attribute is REQUIRED for eg.the JPO PCT request where names and addresses may be repeated in two different languages.

If no structure possible use pctext

-->

```
<!ELEMENT addressbook ((%nam;,address, phone*, fax*, email*, url*, ead*,  
dtext?) | dtext) >  
<!ATTLIST addressbook  
lang CDATA #REQUIRED >  
  
<!-- ADDRESS COMPONENTS *  
The name may form part of addresses. Address format differ from  
country to country. If no structure possible use pctext * -->  
  
<!ELEMENT address ((address-1?,address-2?,address-3?,street?,city?,  
county?,state?,postcode,country) | text) >  
  
<!--* In case the address dose not have street name,city name,etc *-->  
<!ELEMENT address-1 (#PCDATA) >  
<!ELEMENT address-2 (#PCDATA) >  
<!ELEMENT address-3 (#PCDATA) >  
  
<!--* Street may contain house number or name *-->  
<!ELEMENT street (#PCDATA) >  
  
<!--* City or town name *-->  
<!ELEMENT city (#PCDATA) >  
  
<!--* County, parish, department, etc (mainly UK, USA) *-->  
<!ELEMENT county (#PCDATA) >  
  
<!--* Region of country eg. state, province, lande etc *-->  
<!ELEMENT state (#PCDATA) >  
  
<!--* Postal code or zip code *-->  
<!ELEMENT postcode (#PCDATA) >  
  
<!--* Country use ST.3 country code eg. DE, FR, GB, NL - changed  
Includes region codes for EP, AP, EA, OA *-->  
  
<!--* Telephone number *-->  
<!ELEMENT phone (#PCDATA) >  
  
<!--* Fax number *-->  
<!ELEMENT fax (#PCDATA) >  
  
<!ELEMENT email (#PCDATA) >  
  
<!--* Web page location,Universal Resource Locator, eg. www.epoline.org *-->  
<!ELEMENT url (#PCDATA) >  
  
<!--* Electronic address use for other than email *-->  
<!ELEMENT ead (#PCDATA) >  
  
<!--* Descriptive text *-->  
<!ELEMENT dtext (#PCDATA) >  
<!ELEMENT text (#PCDATA) >  
  
<!-- signatories -->  
<!ELEMENT signatories (signatory+) >  
  
<!ELEMENT signatory (%nam;,electronic-signature,  
signatory-capacity?) >
```

```

<!ELEMENT electronic-signature (basic-signature | enhanced-signature) >
<!ATTLIST electronic-signature
    date          CDATA      #REQUIRED
    place-signed  CDATA      #IMPLIED >

<!ELEMENT signatory-capacity (#PCDATA) >
<!ELEMENT basic-signature (fax-image | text-string | click-wrap) >
<!ELEMENT enhanced-signature (pkcs7) >
<!ELEMENT fax-image EMPTY
<!ATTLIST fax-image
    file          CDATA      #REQUIRED >

<!ELEMENT text-string (#PCDATA) >
<!ELEMENT click-wrap EMPTY
<!ELEMENT pkcs7 EMPTY >

<!-- common elements -->
<!-- application identification group -->
<!ELEMENT application-reference (document-id,language-of-filing?) >
<!-- earlier application identification group -->
<!ELEMENT earlier-app-reference (document-id) >
<!-- Document, application identification group -->
<!ELEMENT document-id (country,doc-number,name?,kind?,date?) >
<!-- country code, ST.3 -->
<!ELEMENT country (#PCDATA) >
<!-- Document number -->
<!-- In case of application ; application number -->
<!-- In case of publication ; publication number -->
<!-- In case of grant patent; patent number -->
<!ELEMENT doc-number (#PCDATA) >
<!-- kind code, -->
<!ELEMENT kind (#PCDATA) >
<!-- date, YYYYMMDD, e.g, 20011230 -->
<!ELEMENT date (#PCDATA) >
<!-- filing language -->
<!ELEMENT language-of-filing (#PCDATA) >
<!ELEMENT all-designations EMPTY
<!ELEMENT all-designations-except-us EMPTY
<!ELEMENT designated-states (country*,(region,country+)*)
<!ELEMENT region (country) >

<!-- DOC-PAGE - DOCument or PAGE
This is primarily to be used when data for 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
<image> may also be used for complete pages, eg. in drawings -->

```

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```
<!ELEMENT doc-page EMPTY >
<!ATTLIST doc-page
    id          ID      #REQUIRED
    he         NMTOKEN #REQUIRED
    wi         NMTOKEN #REQUIRED
    type       (jpg | tiff | jfif | pdf | jpeg | tif)   #REQUIRED
    alt        CDATA   #IMPLIED
    label      CDATA   #IMPLIED
    pp         CDATA   #IMPLIED
    ppf        CDATA   #IMPLIED
    ppl        CDATA   #IMPLIED
    file       CDATA   #REQUIRED
    color      (color | bw)   #IMPLIED
                >
<!-- END OF DTD --&gt;</pre>
```

### 3.4 Amendment request

```

<!--
*****amendment-request v0.1 2001 APRIL*****
*****public "-//wipo//dtd amendment-request v0.1 2001-04-30/en"*****
*****contacts:
* EPO: Paul Brewin; pbrewin@epo.org
* JPO: Mitsuru Sono; sono-mitsuru@jpo.go.jp
* USPTO: Bruce B. Cox; bruce.cox@uspto.gov
* WIPO: Shiro Ankyu; shiro.ankyu@wipo.int
*
*****-->

<!-- DOCTYPE amendment-request [ -->
<!-- Define some entities -->
<!-- Name group entity, please see name element group for each elements -->
<!ENTITY % nam "(name | (prefix?,last-name,first-name,middle-name?,suffix?,
    iid?, role?,orgname?,department?,synonym*)),
    registered-number?)" >

<!-- amendment-request      (root element) -->
<!ELEMENT amendment-request ((amend-statement?,(amend-body | (delete-object |
    (amend-content,(insert-before-object |
        insert-after-object | replace-object))+) ),
    dttext?)) >

<!ATTLIST amendment-request
    amend-type (pct-article-34 | pct-article-19)    #REQUIRED
    lang          CDATA    #REQUIRED
    dtd-version   CDATA    #IMPLIED
    produced-by   (applicant | RO | ISA | IPEA | IB | DO | EO)
                  #REQUIRED
    date-produced CDATA    #IMPLIED
    status         CDATA    #IMPLIED
    file          CDATA    #REQUIRED >

<!-- amendment statement -->
<!ELEMENT amend-statement     (doc-page+ | statement) >
<!ATTLIST amend-statement
    id           ID       #REQUIRED
    lang         CDATA    #REQUIRED
    status       CDATA    #REQUIRED >

<!ELEMENT statement            (#PCDATA | b | i | u | sup | sub)* >

<!ELEMENT amend-body ((doc-page+) |
    (description?,claims?,abstract?,drawings?)) >
<!-- Attributes:
    id          = unique id for this application - could be file name
    country     = st.3 code for application
    dtd-version = dtd version number
    lang        = language of application - use two letter st.3 codes
    status      = status of the application; values:
                  n = new application
    file        = filename of the whole application -->

<!ATTLIST amend-body
    id           ID       #REQUIRED
    country     CDATA    #REQUIRED
    lang        CDATA    #REQUIRED
    status      CDATA    #REQUIRED

```

```

>

<!-- * DOC-PAGE - DOCument or PAGE
   This is primarily to be used when data for the whole or
   major sections
   of an application are in image format OR other formats such
   as pdf. Page range attributes are given when required
   pp- page range ppf - first page ppl - last page (for pdf)
   The <image> may also be used for complete pages, eg. in drawings -->

<!ELEMENT doc-page      EMPTY
>
<!ATTLIST doc-page
  id          ID      #REQUIRED
  he         NMTOKEN #REQUIRED
  wi         NMTOKEN #REQUIRED
  type        (jpg | tiff | jfif | pdf | jpeg | tif)  #REQUIRED
  alt          CDATA   #IMPLIED
  label        CDATA   #IMPLIED
  pp           CDATA   #IMPLIED
  ppf          CDATA   #IMPLIED
  ppl          CDATA   #IMPLIED
  file         CDATA   #REQUIRED
  color        (color | bw)  #IMPLIED
>
<!-- * DESCRIPTION
   Rule 5 states that the description must contain a title
   "as appearing in the request" - need to check REQUEST dtd
   for compliance / cross posting
   The sub-headings although mentioned in Rule 5 and
   AI section 204 are NOT compulsory
   The description could merely contain paragraphs- after title.
   For this version of the DTD ONLY the PCT headings are
   listed below.
   Other headings need discussion (see below) -->

<!ELEMENT description  (doc-page+ | (invention-title?, (technical-field |
                                         background-art | description-of-drawings|disclosure |
                                         best-mode | mode-for-invention |
                                         industrial-applicability |
                                         sequence-list-text | (heading* , p+)+)+))
>

<!ATTLIST description
  id          ID      #REQUIRED
  lang        CDATA   #IMPLIED
>

<!ELEMENT invention-title (#PCDATA | b | i | u | sup | sub)*
<!ATTLIST invention-title
  id          ID      #REQUIRED
  lang        CDATA   #IMPLIED
>

<!ELEMENT technical-field (heading* , p+)+
<!ATTLIST technical-field
  id          ID      #REQUIRED
>

<!-- * Background art, background of the invention -->
<!ELEMENT background-art (heading* , p+)+
<!ATTLIST background-art
  id          ID      #REQUIRED
>

<!-- Disclosure of the invention;
   with sub-headings:;
   technical problem;
   technical solution;
   advantageous effects (of the invention); -->
<!ELEMENT disclosure    ((tech-problem | tech-solution | advantageous-effects)*)

```

```

        (heading* , p+)+) >
<!ATTLIST disclosure
      id          ID      #REQUIRED >

<!ELEMENT tech-problem    (heading* , p+)+ >
<!ATTLIST tech-problem
      id          ID      #REQUIRED >

<!ELEMENT tech-solution   (heading* , p+)+ >
<!ATTLIST tech-solution
      id          ID      #REQUIRED >

<!ELEMENT advantageous-effects (heading* , p+)+ >
<!ATTLIST advantageous-effects
      id          ID      #REQUIRED >

<!ELEMENT description-of-drawings (heading* , p+)+ >
<!ATTLIST description-of-drawings
      id          ID      #REQUIRED >

<!ELEMENT best-mode        (heading* , p+)+ >
<!ATTLIST best-mode
      id          ID      #REQUIRED >

<!ELEMENT mode-for-invention (heading* , p+)+ >
<!ATTLIST mode-for-invention
      id          ID      #REQUIRED >

<!ELEMENT industrial-applicability (heading* , p+)+ >
<!ATTLIST industrial-applicability
      id          ID      #REQUIRED >

<!--
      Sequence listing free text
      WIPO ST.25:
      "36. Where the sequence listing part of the description
      contains free text, any such free text shall be repeated in
      the main part of the description in the language thereof.
      It is recommended that the free text in the language of the
      main part of the description be put in a specific section
      of the description called "Sequence Listing Free Text". -->

<!ELEMENT sequence-list-text (heading* , p+)+ >
<!ATTLIST sequence-list-text
      id          ID      #REQUIRED >

<!-- CLAIMS
<!ELEMENT claims           (doc-page+ | claim+)>
<!ATTLIST claims
      lang         CDATA   #REQUIRED >
      id          ID      #REQUIRED >
      country     NMTOKEN #IMPLIED >
      status       CDATA   #IMPLIED >

<!ELEMENT claim             (claim-text+)>
<!ATTLIST claim
      id          ID      #REQUIRED >
      num         CDATA   #REQUIRED >

<!-- Claim text is used for sub-para indentation -->
<!ELEMENT claim-text       (#PCDATA | claim-text | claim-ref | b | i | u |
                           sup | sub | smallcaps | br | crossref |
                           image | chemistry | math | table)* >

<!ELEMENT claim-ref        (#PCDATA)>
<!ATTLIST claim-ref
      idref        IDREFS  #REQUIRED >

```

```

<!-- ABSTRACT (Rule 8)
      this needs linking some way to the REQUEST figure indicator. -->

<!ELEMENT abstract          (doc-page+ | (abst-problem , abst-solution) | (p+)) >
<!ATTLIST abstract
      id          ID      #REQUIRED
      lang        CDATA   #IMPLIED
      country     CDATA   #IMPLIED >

<!ELEMENT abst-problem     (p+) >
<!ATTLIST abst-problem
      id          ID      #REQUIRED >

<!ELEMENT abst-solution    (p+) >
<!ATTLIST abst-solution
      id          ID      #REQUIRED >

<!-- DRAWINGS
      PCT Article 7 / Rule 7 -->
<!ELEMENT drawings         (doc-page+ | figure+) >
<!ATTLIST drawings
      id          ID      #REQUIRED
      lang        CDATA   #IMPLIED
      country     NMTOKEN #IMPLIED
      status      CDATA   #IMPLIED >

<!ELEMENT figure           (image) >
<!ATTLIST figure
      id          ID      #REQUIRED
      num         CDATA   #REQUIRED >

<!-- * HEADINGS
<!ELEMENT heading          (#PCDATA | b | i | u | sup | sub | smallcaps)* >
<!-- Limit to 3 as for Word default, id recommended - "h1" -->
<!ATTLIST heading
      level       (1 | 2 | 3 ) #IMPLIED
      id          ID      #REQUIRED >

<!-- * PARAGRAPHS
<!ELEMENT p                 (#PCDATA | b | i | u | sup | sub | smallcaps | br |
                           | dl | ul | ol | patcit | nplcit | bio-deposit |
                           | crossref | image | chemistry | math | table)* >
<!-- recommended - id="p1"; num="0001" ; id is permanent, num can be
      renumbered -->
<!ATTLIST p
      id          ID      #REQUIRED
      num         CDATA   #REQUIRED >

<!-- IMAGE DATA
      Note: image is used for any kind of image: art work, figures, complex
            maths, tables, etc. -->
<!ELEMENT image              EMPTY >
<!-- recommended - id="img1";
      he, wi="11" - milimeters - height, width;
      file = file name,location;
      label - not used;
      alt - alternative text if image not shown;
      img-content - drawing is the default;
      img-format - common will be tiff, st33 and st35 in for backward
                    compatibility and, later, publication. -->

```

```

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


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


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


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


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


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

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


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


<!ELEMENT br          EMPTY                -->
-->


<!ELEMENT dl          (dt , dd)+           -->
-->

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


<!ELEMENT dt          (#PCDATA | b | i | u | sup | sub | smallcaps)*           -->
-->
<!ATTLIST dt
    id          ID      #REQUIRED           >


<!--Definition of the term -->

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


<!ELEMENT ol          (li+)
-->
<!ATTLIST ol
    id          ID      #REQUIRED
    compact      (compact ) #IMPLIED           >

```

```

<!-- * UNORDERED LISTS
      default is 'bullets'
      style may be empty for lists with no bullet or other symbol -->
<!ELEMENT ul          (li+)
<!ATTLIST ul
    id           ID      #REQUIRED
    list-style   (bullet | dash | none )  'bullet'
    compact      (compact )   #IMPLIED      >

<!-- * LIST item -->
<!ELEMENT li          (#PCDATA | b | i | u | sup | sub | smallcaps | br |
                      patcit | nplcit | bio-deposit | crossref |
                      image | dl | ul | ol | chemistry | math | table)*      >

<!ATTLIST li
    id           ID      #REQUIRED      >

<!-- * CHEMISTRY
      Chemical formulae, ring structures, Markush structures etc
      For now treat as image data.
      Depending on industry support we may have eg. chemML, CML later -->
<!ELEMENT chemistry     (image)      >

<!-- recommended - id="chl" -->
<!ATTLIST chemistry
    id           ID      #REQUIRED
    num          CDATA   #REQUIRED      >

<!-- * MATHEMATICS
      This is image data or coded according to mathml version 2, -->
<!ELEMENT math         (image | MathML)      >

<!-- recommended - id="ml" -->
<!ATTLIST math
    id           ID      #REQUIRED
    num          CDATA   #REQUIRED      >

<!-- * MATHEMATICS -->
<!-- MathML 2.0 DTD

      This is the Mathematical Markup Language (MathML) 2.0, an XML
      application for describing mathematical notation and capturing
      both its structure and content.

      Copyright 1998-2000 World Wide Web Consortium
      (Massachusetts Institute of Technology, Institut National de
      Recherche en Informatique et en Automatique, Keio University).
      All Rights Reserved.

      Permission to use, copy, modify and distribute the XHTML 1.1 DTD and
      its accompanying documentation for any purpose and without fee is
      hereby granted in perpetuity, provided that the above copyright
      notice and this paragraph appear in all copies.
      The copyright holders make no representation about the suitability
      of the DTD for any purpose.

      It is provided "as is" without expressed or implied warranty.

      Revision: $Id: parsing.xml,v 1.34 2000/12/14 13:08:43 davidc Exp $

      This entity may be identified by the PUBLIC and SYSTEM identifiers:

      PUBLIC "-//W3C//DTD MathML 2.0//EN"
      SYSTEM "mathml2.dtd"

      To be added in later - in order to keep this ver. of DTD smaller, see:
      http://www.w3.org/TR/MathML2/
  
```

```

-->
<!ELEMENT MathML          EMPTY                                >

<!-- * TABLES
      This is image data or coded according to CALStable exported
      from USPTO EFS with modified cell <entry> content
-->
<!ELEMENT table           (image | CALStable)                  >

<!-- recommended - id="t1"                                     -->
<!ATTLIST table
  id          ID      #REQUIRED
  num         CDATA   #REQUIRED                                >

<!ELEMENT CALStable      (heading , TGroup+)
<!ATTLIST CALStable
  frame        (top | bottom | topbot | all | sides | none ) #IMPLIED
  colsep       NMTOKEN #IMPLIED
  rowsep       NMTOKEN #IMPLIED
  pgwide       NMTOKEN #IMPLIED                                >

<!ELEMENT TGroup         (colspec* , spanspec* , thead? , TBody)
<!ATTLIST TGroup
  cols         CDATA   #REQUIRED
  colsep       NMTOKEN #IMPLIED
  rowsep       NMTOKEN #IMPLIED
  align        (left | right | center | justify | char ) #IMPLIED >

<!ELEMENT colspec        EMPTY                               >
<!ATTLIST colspec
  colnum       CDATA   #IMPLIED
  colname      CDATA   #IMPLIED
  colwidth     CDATA   #IMPLIED
  colsep       NMTOKEN #IMPLIED
  rowsep       NMTOKEN #IMPLIED
  align        (left | right | center | justify | char ) #IMPLIED
  char         CDATA   #IMPLIED
  charoff      CDATA   #IMPLIED                                >

<!ELEMENT spanspec       EMPTY                               >
<!ATTLIST spanspec
  namest       CDATA   #REQUIRED
  nameend      CDATA   #REQUIRED
  spanname     CDATA   #REQUIRED
  align        (left | right | center | justify | char ) 'center'
  colsep       NMTOKEN #IMPLIED
  rowsep       NMTOKEN #IMPLIED                                >

<!ELEMENT thead          (Row+)
<!ATTLIST thead
  valign       (top | middle | bottom ) #IMPLIED                >

<!ELEMENT TBody          (Row+)
<!ATTLIST TBody
  valign       (top | middle | bottom ) #IMPLIED                >

<!ELEMENT Row             (Entry+)
<!ATTLIST Row
  rowsep      NMTOKEN #IMPLIED
  valign       (top | middle | bottom ) #IMPLIED                >

<!-- * Changed to add other elements in entry                 -->
<!ELEMENT Entry           (#PCDATA | b | i | u | sup | sub | smallcaps | br |
                           patcit | nplcit | bio-deposit | crossref | image |
                           dl | ul | ol | chemistry | math)*                      >

<!ATTLIST Entry

```

```

colname      NMOKEN #IMPLIED
namest       NMOKEN #IMPLIED
nameend     NMOKEN #IMPLIED
morerows    CDATA #IMPLIED
colsep      NMOKEN #IMPLIED
rowsep      NMOKEN #IMPLIED
align        (left | right | center | justify | char ) #IMPLIED
char         CDATA #IMPLIED
charoff     CDATA #IMPLIED
valign      (top | middle | bottom ) #IMPLIED >

<!-- * PATENT CITATIONS
Patent Citation within abstract, description or claims
for pat. 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).

Attributes (recommended)::;
id - use pcit1, pcit2, etc;
dnum - use full number as one string, eg, "US5401234A";
url - where possible give full web link to patent
;
Example:<patcit id="pcit1" dnum="US4793675A">
<document-id><country>US</country>
<doc-number>4793675</doc-number><kind>A</kind><name>Handa</name>
<date>19881227</date></document-id></patcit>
;
Note: it is NOT expected that the applicant will create the
tagged data - it could be generated from a 'pull down'
data entry form or generated from internal SR databases -->
<!ELEMENT patcit (text | (document-id , rel-passage*))>

<!-- Attributes (recommended)::;
id - use pcit1, pcit2, etc;
dnum - use full number as one string, eg, "US5401234A";
url - where possible give full web link to patent
file - file name eg. if stored on local systems -->
<!ATTLIST patcit
  id          ID      #REQUIRED
  dnum        CDATA   #IMPLIED
  url         CDATA   #IMPLIED
  file        CDATA   #IMPLIED >

<!ELEMENT text          (#PCDATA) >

<!-- Document identification refers to patents only and
is used in several other dtbs it should not be changed
without consultation with WIPO; -->
<!ELEMENT document-id (country , doc-number , kind? , name? , date?)>

<!ELEMENT doc-number    (#PCDATA) >

<!-- * doc. kind code eg A1 -->
<!ELEMENT kind          (#PCDATA) >

<!-- * 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?)++) >

<!ELEMENT passage       (#PCDATA) >

<!ELEMENT category      (#PCDATA) >

```

```

<!ELEMENT rel-claims      (#PCDATA)                                >
<!--
  * Non-Patent Literature (NPL) CITation;
  Notes:;
  This can be free text data without any structure (#PCDATA)
  which is NOT recommended
  or it can be highly structured data which is marked up
  according to ST.14 and ISO 690 layout
  ;
  This part of the DTD has used many different sources
  for element names and DTD structure and reference:
  AACR2 / MARC
  ISO 12083 - Electronic manuscript prep. and markup. DTD
  Association of American Publishers (AAP) Z39.59 DTD
  European Working Group for SGML (EWS) MAJOUR DTD
  SuperJournal Full Article DTD www.superjournal.ac.uk/sj
  Elsevier DTD
  Medline DTD (NLM)                                         -->

<!ELEMENT nplcit        ((text) | (article | book | online | othercit)*)      >
<!--
  Attributes (recommended):;
  id - ncit1, ncit2, etc
  num - 0001, 0002
  The TYPE of citation is office specific:
  (recommended):;
  A - Abstract citation of no specific kind
  B - Book citation
  I - Biological abstract citation
  C - Chemical abstracts citation
  E - Database citation
  D - Derwent citation
  P - Patent cited within NPL group
  J - Patent Abstracts of Japan citation (REC 067)
  S - Serial / Journal / Periodical citation
  W - World Wide Web / Internet search citation

  medium - the type of medium eg.
  CD (CD-ROM), MT (Magnetic Tape), DISK, ONLINE
  file - file name on local systems eg. XP number in EPO
  url - where possible give full web link to document           -->
<!ATTLIST nplcit
  id          ID      #REQUIRED
  num         CDATA   #REQUIRED
  type        CDATA   #IMPLIED
  medium      CDATA   #IMPLIED
  file        CDATA   #IMPLIED
  url         CDATA   #IMPLIED                                         >

<!--
  ARTICLE CITATIONS within a 'host' document
  After patent citations the most common citations are
  articles within serials (periodicals, magazines), books and
  electronic (eg. internet) sources.
  This is a very complex and varied area to standardise.
  The tag set below is drawn from a number of sources as is
  the order of the tags (which in any case can be changed
  depending on the stylesheet used).;

  The order of tags is that of WIPO ST.14 / ISO 690 layout

  DROP, J.G. Integrated Circuit Personalization at
  the Module Level. IBM Tech. Dis. Bull. October 1974,
  Vol. 17, No. 5, p. 1344 and 1345.
  [XPnnnnnnnnnnnn].
```

```

nplcit id="ncit1" num="0012" type="S" file="XP1234456">
    <article>
        <author>
            <name>DROP, J.G.</name></author>
        <atl>
            Integrated Circuit Personalization at the Module Level
        </atl>
        <serial>
            <sertitle>IBM Tech. Dis. Bull.</sertitle>
            <pubdate>19741000</pubdate>
            <vid>17</vid>
            <ino>5</ino>
        </serial>
        <location><pp>1344 and 1345</pp></location>
        <refno id="XP1">XP1234456</refno>
    </article>
</nplcit>

```

Note: it is NOT expected that the applicant will create the tagged data - it can be generated from a 'pull down' data entry form (eg. in Word) or generated from internal SR databases

&lt;--&gt;

```

<!ELEMENT article      ((text) | (author* , atl? , subname? ,
                                (serial | book) , absno? , location? , class* ,
                                keyword* , cpyrt? , artid? , refno*))           >

<!-- * AUTHOR
     Prime responsibility for the work
     there is no distinguishing between personal and corporate auths
     <AUTHOR>s followed by:
     %nam; or addressbook entry
     use the ID attribute if, for example, there is a need to
     distinguish between multiple authors. Can also include
     affiliation details                                         <-->
<!ELEMENT author        ((%nam;) | (addressbook))                  >
<!ATTLIST author
    id             ID          #IMPLIED                           >

<!-- * Article title                                         <-->
<!ELEMENT atl         (#PCDATA)                                 >

<!-- * Subordinate responsibility
     This can be, eg. : editor, translator, etc                <-->
<!ELEMENT subname      ((%nam;) | addressbook)                 >

<!-- * SERIAL CITATION DATA
     This describes the volume or issue as a whole and not a
     particular article within it.                               <-->
<!ELEMENT serial       (sertitle , alttitle? , subname? , issue? , imprint? ,
                        pubdate? , descrip? , notes? , issn? ,
                        isbn? , pubid? , vid? , ino? , cpyrt?)        >

<!-- * Serial title                                         <-->
<!ELEMENT sertitle     (#PCDATA)                                >

<!-- * Alternate title for serial eg. BMJ = British Medical Journal <-->
<!ELEMENT alttitle     (#PCDATA)                                >

<!-- * Issue designation
     This can be, eg. : Annual, 1971-, 1890-1972               <-->
<!ELEMENT issue        (#PCDATA)                                >

<!-- * IMPRINT
     Publication / creation data

```

Place of publication : publisher, date(s) of publication usually only date of publication is used for journal citations	-->
<!ELEMENT imprint ((text)   (address? , name , pubdate*))	>
<!-- * Physical description - generally NOT used in citations in pats. eg. v., 27cm	-->
<!-- * PUBDATE: Components of a date in npl citations - sdate etc defined in date	-->
<!ELEMENT pubdate (#PCDATA   sdate   edate   time)*	>
<!ELEMENT descrip (#PCDATA)	>
<!-- * Notes about the journal eg. Continues Journal of XYZ 1910-1998, published in French and English, etc.	-->
<!ELEMENT notes (#PCDATA)	>
<!-- * International standard serial number	-->
<!ELEMENT issn (#PCDATA)	>
<!-- * International standard book number	-->
<!ELEMENT isbn (#PCDATA)	>
<!-- * Publisher's unique id added 11.2000 PB ISO 12083	-->
<!ELEMENT pubid (#PCDATA)	>
<!-- * Volume id/number	-->
<!ELEMENT vid (#PCDATA)	>
<!-- * Issue number	-->
<!ELEMENT ino (#PCDATA)	>
<!-- * Copyright info. copyright of publisher of serial	-->
<!ELEMENT cpyrt (#PCDATA)	>
<!-- * Abstract number	-->
<!ELEMENT absno (#PCDATA)	>
<!-- * Location within the work	-->
<!ELEMENT location ((text)   (serpart? , sersect? , chapter? , pp? , column? , para? , line?))	>
<!-- * Part in a serial ISO 12083	-->
<!ELEMENT serpart (#PCDATA)	>
<!ELEMENT sersect (#PCDATA)	>
<!ELEMENT chapter (#PCDATA)	>
<!-- * Page numbers ppf - first, ppl - last	-->
<!ELEMENT pp (#PCDATA   ppf   ppl)*	>
<!ELEMENT ppf (#PCDATA)	>
<!ELEMENT ppl (#PCDATA)	>
<!-- * Column, para(graph) and line numbers	-->
<!ELEMENT column (#PCDATA   colf   coll)*	>
<!ELEMENT colf (#PCDATA)	>
<!ELEMENT coll (#PCDATA)	>
<!ELEMENT para (#PCDATA   paraf   paral)*	>
<!ELEMENT paraf (#PCDATA)	>

```

<!ELEMENT paral      (#PCDATA)                                >
<!ELEMENT line       (#PCDATA | linef | linel)*           >
<!ELEMENT linef     (#PCDATA)                                >
<!ELEMENT linel     (#PCDATA)                                >
<!-- * Classification code eg. ipc, dewey etc.                --&gt;
&lt;!ELEMENT class      (#PCDATA)                                &gt;
<!-- * Keywords eg. from a Thesaurus or class. scheme        --&gt;
&lt;!ELEMENT keyword    (#PCDATA)                                &gt;
<!-- * HISTORY of the article (not serial)
    date received/accepted/revised
    preferred: yyyyymmdd
    Group added 11/2000 PB from ISO 12083                  --&gt;
&lt;!ELEMENT history    ((text) | (received | accepted | revised | misc)) &gt;
&lt;!ELEMENT received   (date)                                 &gt;
&lt;!ELEMENT accepted   (date)                                 &gt;
&lt;!ELEMENT revised    (date)                                 &gt;
&lt;!ELEMENT misc       (#PCDATA | date)*                   &gt;
<!-- * Article unique ID - assigned by a publisher to an article
    added 11/2000 PB from ISO 12803                      --&gt;
&lt;!ELEMENT artid      (#PCDATA)                                &gt;
<!-- Reference no. (general) for the EPO this is the XP number --&gt;
&lt;!ELEMENT refno      (#PCDATA)                                &gt;
&lt;!ATTLIST refno
    id          ID      #REQUIRED                         &gt;
<!-- BOOK CITATION (MONOGRAPH)
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.

&lt;nplcit id="ncit12" num="0013" type="b"&gt;
    &lt;book&gt;
        &lt;author&gt;
            &lt;name&gt;WALTON, Herrman&lt;/name&gt;&lt;/author&gt;
            &lt;book-title&gt;Microwave quantum theory&lt;/book-title&gt;
            &lt;imprint&gt;&lt;address&gt;&lt;text&gt;London&lt;/text&gt;&lt;/address&gt;
            &lt;name&gt;Sweet and Maxwell&lt;/name&gt;
            &lt;pubdate&gt;19730000&lt;/pubdate&gt;&lt;/imprint&gt;
            &lt;location&gt;&lt;pp&gt;138 to 192&lt;/pp&gt;&lt;/location&gt;
            &lt;isbn&gt;0-1234-568-9&lt;/isbn&gt;
        &lt;/book&gt;
    &lt;/nplcit&gt;
--&gt;
&lt;!ELEMENT book       ((text) | (author* , (book-title+ | conference) ,
    (subtitle? , subname* , edition? , imprint? , descrip? ,
    series? , absno? , location* , isbn* , pubid? , vid? ,
    bookno? , notes? , class* , keyword* , cpyrt? ,
    refno*)))           &gt;
&lt;!ELEMENT book-title (#PCDATA)                            &gt;
&lt;!ELEMENT subtitle  (#PCDATA)                            &gt;
</pre>

```

```

<!-- * Edition statement -->
<!ELEMENT edition      (#PCDATA) >

<!-- * Subordinate responsibility
    This can be, eg. : editor, translator, etc
    Note this does not follow AACR2 rules
    subname - defined above
    imprint     - described above
    descrip     - described above -->
<!-- * Series statement -->
<!ELEMENT series      ((text) | (mst , msn? , issn?)) >

<!-- * Monographic series title and number -->
<!ELEMENT mst        (#PCDATA) >

<!ELEMENT msn        (#PCDATA) >

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

<!--
    CONFERENCE GROUP / CITATION
    There is no standard way of citing conference proceedings
    date of the conf. may come before or after place for example
    The tags are specified in a set order where it is not
    possible or correct then simply use <CONFERENCE>
    and no sub tags -->
<!ELEMENT conference   ((text) | (conftitle , date? , confno? ,
                                    confplace? , confsponsor*)) >

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

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

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

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

<!-- * ONLINE CITATION
    (previously DBASECIT)
    This section completely 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.
    Body</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](mailto: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](mailto: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: &lt;&lt;iso.tc46.sc9@nlc-bnc.ca&gt;</name></subname>
    <pubdate>3 October 2000; 13:33 EST</pubdate>
    <notes>Personal communication</notes>
    <avail>Message-ID: &lt;002f01c02d60\$051a64a0\$22a2580c@vaio&gt;;
    </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*)) >
<!ELEMENT online-title (#PCDATA)                                     >
<!-- *   TITLE of the HOST document/database                         -->
<!ELEMENT hosttitle     (#PCDATA)                                     >
<!ELEMENT hostno       (#PCDATA)                                     >
<!-- * Availability and access - REQUIRED
use for URL, online database, ftp address, email, etc. eg.
Available from Internet: http://www.epoline.org                                     -->
```

```

Available from DIALOG Information Systems, Palo Alto (Calif.)      --->
<!ELEMENT avail          (#PCDATA)                                >

<!-- * Date Cited - date on which the citation was cited      --->
     it may be different from srchdate below                  >
<!ELEMENT datecit       (date)                                 >

<!-- * Search terms                                         --->
<!ELEMENT srchterm      (#PCDATA)                                >

<!-- * Date of search/retrieval^                            --->
<!ELEMENT srchdate      (date)                                 >

<!-- * Other citations - free form                         --->
<!ELEMENT othercit      (#PCDATA)                                >

<!--
BIOlogical deposit CITation
(US EFS: biological-deposit)
According to PCT Rule 13bis, EPC Rule 28
This covers all bio data references long and short
within the description and/or claims                               --->
<!ELEMENT bio-deposit    (depositary , bio-accno , date? , term? , dtext?)      >

<!ATTLIST bio-deposit
          id          ID      #REQUIRED
          num         CDATA   #REQUIRED
          url         CDATA   #IMPLIED
          dnum        CDATA   #IMPLIED                                >

<!ELEMENT depositary    (#PCDATA | address)*                      >
<!ELEMENT bio-accno     (#PCDATA)                                >
<!ELEMENT term          (#PCDATA)                                >

<!-- * Cross references to any other element                   --->
<!ELEMENT crossref      (#PCDATA)                                >
<!ATTLIST crossref
          idref        CDATA   #REQUIRED                                >

<!-- * ADDRESSBOOK COMPONENTS / GROUP TAG

The LANG attribute is REQUIRED for eg.the JPO PCT Request
where names and addresses may be repeated in two different
languages. If no structure possible use text                           --->
<!ELEMENT addressbook    ((%nam;, address , phone* , fax* ,
                           email* , url* , ead* , dtext?)| (text))      >
<!ATTLIST addressbook
          lang         CDATA   #IMPLIED                                >

<!-- * NAME if no distinction or detail can be given.
     Also to be used for: personal (natural-person) and corporate
     (legal entity) names                                         --->
<!ELEMENT name           (#PCDATA)                                >
<!ATTLIST name
          type         (legal | natural ) #REQUIRED                                >

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

```

```

<!-- * First, given, name(s), initials -->
    eg. John, J.                                     -->
<!ELEMENT first-name      (#PCDATA)               >

<!ELEMENT middle-name     (#PCDATA)               >

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

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

<!-- * Individual id -->
<!ELEMENT iid              (#PCDATA)               >

<!-- * Role, eg President added 02.11.2000 PB ISO 12083 -->
<!ELEMENT role             (#PCDATA)               >

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

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

<!-- * Synonym, cross-reference -->
<!ELEMENT synonym          (#PCDATA)               >

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

<!-- * ADDRESS COMPONENTS
      Address formats differ from country to country
      If no structure possible use pctext -->
-->

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

<!-- * Org. mail code -->
<!ELEMENT mailcode          (#PCDATA)               >

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

<!ELEMENT room              (#PCDATA)               >
<!ELEMENT floor              (#PCDATA)               >
<!ELEMENT building           (#PCDATA)               >

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

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

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

<!-- * Region of country eg. state, province, lande etc -->

```

```

<!ELEMENT state          (#PCDATA)                                >
<!-- * Postal code or zip code                               -->
<!ELEMENT postcode      (#PCDATA)                                >

<!-- * Country use ST.3 country code eg. DE, FR, GB, NL - changed
     also, therefore, includes EP, WO                           -->
<!ELEMENT country       (#PCDATA)                                >

<!-- * Telephone number                                     -->
<!ELEMENT phone         (#PCDATA)                                >

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

<!ELEMENT email         (#PCDATA)                                >

<!-- * Web page location- Universal Resource Locator
     www.wipo.int                                              -->
<!ELEMENT url          (#PCDATA)                                >

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

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

<!-- * DATE: Components of a date (date) YYYYMMDD           -->
<!ELEMENT date         (#PCDATA)                                >

<!-- * start date, end date used in pubdate                -->
<!ELEMENT sdate        (#PCDATA)                                >

<!ELEMENT edate        (#PCDATA)                                >

<!ELEMENT time          (#PCDATA)                                >

<!-- deleted object  paragraph, clime,,,,
<!ELEMENT delete-object (#PCDATA)                                >

<!-- amendment content add, replace                         -->
<!ELEMENT amend-content (#PCDATA)
    (invention-title | heading+ | p+ | doc-page+ |
     claim+ | figure+ )                                         >

<!ELEMENT insert-before-object (#PCDATA)                            >
<!ELEMENT insert-after-object (#PCDATA)                            >
<!ELEMENT replace-object (#PCDATA)                                >

<!-- END OF DTD                                              -->

```

### 3.5 Power of attorney

```

<!--
*****
* power-of-attorney v0.1 2001 APRIL *
*****
* public "-//wipo//dtd power-of-attorney v0.1 2001-04-30/en" *
*****
* contacts: *
* EPO: Paul Brewin; pbrewin@epo.org *
* JPO: Mitsuru Sono; sono-mitsuru@jpo.go.jp *
* USPTO: Bruce B. Cox; bruce.cox@uspto.gov *
* WIPO: Shiro Ankyu; shiro.ankyu@wipo.int *
*****
-->

Created 2001-04-26, Geneva, Trilateral/WIPO Working Group.
This DTD is base on PCT-EASY power of attorney -->

<!--DOCTYPE power-of-attorney [ -->
<!-- Define some entities -->

<!-- Name group entity, please see name element group for each elements -->
<!ENTITY % nam   "((name | (prefix?,last-name,first-name,middle-name?,suffix?,
    iid?, role?,orgname?,department?,synonym*)),
    registered-number?)" >

<!-- power-of-attorney (root element) -->
<!ELEMENT power-of-attorney ((customer-number?,
    attorney-or-agent*), represent-before,
    (invention-title | file-reference-id |
    document-id)+, ro, payor,signatories) >
<!ATTLIST power-of-attorney
    lang          CDATA      #REQUIRED
    dtd-version   CDATA      #IMPLIED
    date-produced CDATA      #IMPLIED
    status         CDATA      #IMPLIED
    file          CDATA      #REQUIRED
    >

<!-- signatories -->
<!ELEMENT signatories      (signatory+) >
<!ELEMENT signatory        (%nam;,electronic-signature,
    signatory-capacity?) >
<!ELEMENT electronic-signature (basic-signature | enhanced-signature) >
<!ATTLIST electronic-signature
    date          CDATA      #REQUIRED
    place-signed  CDATA      #IMPLIED
    >
<!ELEMENT signatory-capacity (#PCDATA) >
<!ELEMENT basic-signature   (fax-image | text-string | click-wrap) >
<!ELEMENT enhanced-signature (pkcs7) >
<!ELEMENT fax-image        EMPTY >

```

```

<!ATTLIST fax-image
    file      CDATA      #REQUIRED      >
<!ELEMENT text-string          (#PCDATA)      >
<!ELEMENT click-wrap           EMPTY        >
<!ELEMENT pkcs7                EMPTY        >

<!-- common elements -->
<!-- Document, application identification group -->
<!ELEMENT document-id          (country,doc-number,name?,kind?,date?)      >
<!-- Document number -->
<!--     In case of application ; application number -->
<!--     In case of publication ; publication number -->
<!--     In case of grant patent; patent number -->
<!ELEMENT doc-number            (#PCDATA)      >
<!-- kind code, -->
<!ELEMENT kind                  (#PCDATA)      >
<!-- date, YYYYMMDD, e.g., 20011230 -->
<!ELEMENT date                  (#PCDATA)      >

<!-- addressbook : NAME and ADDRESS COMPONENTS / GROUP TAG
    % nam "((name | (prefix?,last-name,first-name,middle-name?,suffix?,
    iid?, role?,orgname?,department?,synonym*)),registered-number?)" -->
The lang attribute is REQUIRED for eg.the JPO PCT request where names and
addresses may be repeated in two different languages.
If no structure possible use pctext                                -->
<!ELEMENT addressbook   ((%nam; ,address, phone*, fax* ,email* , url* , ead* ,
                           dtext? ) | dtextr)
<!ATTLIST addressbook

```

lang	CDATA	#REQUIRED	>
<!-- NAME if no distinction or detail can be given. Also to be used for: personal (natural-person) and corporate (legal entity) names			-->
<!ELEMENT name (#PCDATA)			>
<!ATTLIST name type (legal   natural) #REQUIRED			>
<!-- Title e.g., Mr., Mrs., Dr. etc*			-->
<!ELEMENT prefix (#PCDATA)			>
<!-- Last, family, surname			-->
<!ELEMENT last-name (#PCDATA)			>
<!-- First, given, middle name(s), initials eg. John, John F., J.F, John Frederick			-->
<!ELEMENT first-name (#PCDATA)			>
<!ELEMENT middle-name (#PCDATA)			>
<!-- Suffix (e.g., II, Jr.Dip. Ing., BA, et al, etc. * <!ELEMENT suffix (#PCDATA)			-->
<!-- * Individual id *			-->
<!ELEMENT iid (#PCDATA)			>
<!-- * Role, eg President added 02.11.2000 PB ISO 12083 *			-->
<!ELEMENT role (#PCDATA)			>
<!-- * Organisation name *			-->
<!ELEMENT orgname (#PCDATA)			>
<!-- * Department,division,section, etc. name *			-->
<!ELEMENT department (#PCDATA)			>
<!-- * Synonym, cross-reference *			-->
<!ELEMENT synonym (#PCDATA)			>
<!-- Applicant's, agent's registration number with the office			-->
<!ELEMENT registered-number (#PCDATA)			>
<!-- ADDRESS COMPONENTS * The name may form part of addresses. Address format differ from country to country. If no structure possible use pctext			-->
<!ELEMENT address ((address-1?,address-2?,address-3?,street?,city?, county?,state?,postcode,country)   text)			>
<!--* In case the address dose not have street name,city name,etc			*-->
<!ELEMENT address-1 (#PCDATA)			>
<!ELEMENT address-2 (#PCDATA)			>
<!ELEMENT address-3 (#PCDATA)			>
<!--* Street may contain house number or name			*-->
<!ELEMENT street (#PCDATA)			>
<!--* City or town name			*-->
<!ELEMENT city (#PCDATA)			>
<!--* County, parish, department, etc (mainly UK, USA)			*-->
<!ELEMENT county (#PCDATA)			>

```

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

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

<!--* Country use ST.3 country code eg. DE, FR, GB, NL - changed *-->
    Includes region codes for EP, AP, EA, OA
<!ELEMENT country (#PCDATA) >

<!--* Telephone number *-->
<!ELEMENT phone (#PCDATA) >

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

<!ELEMENT email (#PCDATA) >

<!--* Web page location,Universal Resource Locator, eg. www.epoline.org *-->
<!ELEMENT url (#PCDATA) >

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

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

<!ELEMENT all-authorities EMPTY >

<!ELEMENT ipea-only EMPTY >

<!ELEMENT isa-only EMPTY >

<!-- HIGHLIGHTED ELEMENTS -->
bold, italic, underscore,
If we do not use these we have to have a generic tag such as
emphasis with styles or levels because users want to use
these and we need to mark it up - it is far simpler to have
the tags shown below
<!-- * bold -->
<!ELEMENT b (#PCDATA | i | u | smallcaps | br)* >

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

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

<!-- * Underscore attribute: style - single is default -->
<!ATTLIST u
    style (single | double | dash | dots ) "single" >

<!-- * Superscript attribute: position (post) -->
<!ELEMENT sup (#PCDATA | b | u | i)* >

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

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

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

<!-- END OF DTD -->

```

### 3.6 Fee sheet

```

<!--*****  

 * public "-//wipo//dtd fee-sheet v0.1 2001-06-20/en"  

*****  

* contacts:  

*  

* WIPO: Shiro Ankyu; shiro.ankyu@wipo.int  

*  

*****  

* revision history  

***** -->  

  

Created 2001 June 20, Shiro Ankyu, WIPO  

..set version to v0.1  

  

<!-- DOCTYPE fee-sheet [ -->  

  

<!-- Define some entities  

Name group entity, please see name element group for each elements -->  

  

<!ENTITY % nam   "((name | (prefix?,last-name,first-name,middle-name?,suffix?,  

           iid?, role?,orgname?,department?,synonym*)),  

           registered-number?)" >  

  

<!--Fee calculation sheet annex to the PCT request -->  

<!ELEMENT fee-sheet ((file-reference-id?,applicant-name,currency,  

           prescribed-fees, total-amounts,deposit-account?) |  

           doc-page+) >  

<!ATTLIST fee-sheet  

           lang          CDATA      #REQUIRED  

           dtd-version    CDATA      #IMPLIED  

           produced-by    (applicant | RO | ISA | IPEA | IB | DO | EO)  

                           #REQUIRED  

           date-produced  CDATA      #IMPLIED  

           status         CDATA      #IMPLIED  

           ro             CDATA      #REQUIRED  

           file           CDATA      #IMPLIED >  

  

<!--PCT: applicant's or agent's file reference, if desired,  

       12 characters maximum -->  

<!ELEMENT file-reference-id (#PCDATA) >  

  

<!ELEMENT applicant-name %nam; >  

  

<!--Kind of currency for payment -->  

<!ELEMENT currency (#PCDATA) >  

  

<!--Calculation of prescribed fees -->  

<!ELEMENT prescribed-fees (transmittal-fee,search-fee,international-fee,  

           pdoc-fee?) >  

  

<!--Transmittal fees -->  

<!ELEMENT transmittal-fee (total-amounts,payment-mode) >  

  

<!ELEMENT total-amounts (#PCDATA) >  

  

<!--Mode of payment -->  

<!ELEMENT payment-mode (charge | postal-order | cash | coupons | cheque |  

           bank-draft | stamps | other) >  

  

<!--Authorization to charge deposit account -->  

<!ELEMENT charge EMPTY >  

  

<!--Postal money order -->

```

```

<!ELEMENT postal-order          EMPTY                                >
<!--cash                           -->
<!ELEMENT cash                   EMPTY                                >
<!--coupons                         -->
<!ELEMENT coupons                EMPTY                                >
<!--cheque                          -->
<!ELEMENT cheque                 EMPTY                                >
<!--bank draft                      -->
<!ELEMENT bank-draft              EMPTY                                >
<!--revenue stamps                  -->
<!ELEMENT stamps                 EMPTY                                >
<!--other payment mode, specify   -->
<!ELEMENT other                   (#PCDATA)                            >

<!--Search fee                      -->
<!ELEMENT search-fee               (total-amounts,payment-mode,isa?) >
<!--International search to be carry by      -->
<!ELEMENT isa                     (country)                             >

<!--International fee                  -->
<!ELEMENT international-fee         (basic-fee,designation-fee,fee-reduction?,    >
                                         total-amounts,payment-mode)
<!--basic fee                        -->
<!ELEMENT basic-fee                (amount,additional-amount?,additional-component?,    >
                                         total-amounts)
<!--Additional amount                -->
<!ELEMENT additional-amount        (amount)                             >
<!--If sequence listing part of description is filed in computer readable form
-->
<!ELEMENT additional-component     (amount)                            >

<!--Designation fee                  -->
<!ELEMENT designation-fee          (number-of-designation,designation-fee-payable,    >
                                         amount, total-amounts)
<!--Number of designations contained in international application      -->
<!ELEMENT number-of-designation   (#PCDATA)                            >
<!--Number of designation fees payable, maximum 8                      -->
<!ELEMENT designation-fee-payable (#PCDATA)                            >

<!--Fee reduction                   -->
<!ELEMENT fee-reduction           (amount)                             >

<!-- fee for priority document      -->
<!ELEMENT pdoc-fee                (number-of-pdoc,amount,total-amounts,    >
                                         payment-mode)
<!-- Number of priority document requested      -->
<!ELEMENT number-of-pdoc          (#PCDATA)                            >

```

```

<!--Authorization to charge or credit deposit account          -->
<!ELEMENT deposit-account      (authorization,ro,account-no,date,%nam;,           ,
                           signatories?)                                >

<!--Kind of authorization          -->
<!ELEMENT authorization        (total-fee?,deficiency-credit?,fee-for-pdoc?)    >

<!--Authorization to charge the total fees indicated above   -->
<!ELEMENT total-fee            EMPTY                                         >

<!--Authorization to charge any deficiency or credit any overpayment  -->
<!ELEMENT deficiency-credit   EMPTY                                         >

<!--Authorization to charge the fee for priority document     -->
<!ELEMENT fee-for-pdoc         EMPTY                                         >

<!--Receiving office          -->
<!ELEMENT ro                  (country)                                     >

<!--Deposit account number      -->
<!ELEMENT account-no          (#PCDATA)                                    >

<!ELEMENT date                (#PCDATA)                                     >

<!--Common elements          -->
<!ELEMENT amount              (#PCDATA)                                    >

<!ELEMENT country             (#PCDATA)                                     >

<!--NAME if no distinction or detail can be given. Also to be used for:
     personal (natural-person) and corporate (legal entity) names      -->
<!ELEMENT name                (#PCDATA)                                    >
<!ATTLIST name
      type (legal | natural) #REQUIRED                                >

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

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

<!--First, given, middle name(s), initials eg. John, John F., J.F,
     John Frederick          -->
<!ELEMENT first-name          (#PCDATA)                                    >
<!ELEMENT middle-name         (#PCDATA)                                     >

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

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

<!--Role, eg President added 02.11.2000 PB ISO 12083      -->
<!ELEMENT role                (#PCDATA)                                    >

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

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

```

```

<!--Synonym, cross-reference -->
<!ELEMENT synonym (#PCDATA) >

<!--Applicant's, agent's registration number with the office -->
<!ELEMENT registered-number (#PCDATA) >

<br>

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

<!ELEMENT signatory (%nam;, electronic-signature, signatory-capacity?) >

<!ELEMENT electronic-signature (basic-signature | enhanced-signature) >

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

<!ELEMENT signatory-capacity (#PCDATA) >

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

<!ELEMENT enhanced-signature (pkcs7) >

<!ELEMENT fax-image EMPTY >

<!ATTLIST fax-image
    file      CDATA    #REQUIRED >

<!ELEMENT text-string (#PCDATA) >

<!ELEMENT click-wrap EMPTY >

<!ELEMENT pkcs7 EMPTY >

<br>

<!-- DOC-PAGE - DOCument or PAGE
This is primarily to be used when data for 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
<image> may also be used for complete pages, eg. in drawings -->
<!ELEMENT doc-page EMPTY >
<!ATTLIST doc-page
    id      ID      #REQUIRED
    he      NMTOKEN #REQUIRED
    wi      NMTOKEN #REQUIRED
    type   (jpg | tiff | jifif | pdf | jpeg | tif) #REQUIRED
    alt     CDATA   #IMPLIED
    label   CDATA   #IMPLIED
    pp     CDATA   #IMPLIED
    ppf    CDATA   #IMPLIED
    ppl    CDATA   #IMPLIED
    file   CDATA   #REQUIRED
    color  (color | bw) #IMPLIED >

<!-- END OF DTD -->

```

### 3.7 Biological deposit

```

<!--
*****
* indication-bio-deposit v0.1      2001 June
*****
* public "-//wipo//dtd indication-bio-deposit v0.3 2001-04-30/en"
*****
* contacts:
* WIPO: Shiro Ankyu; shiro.ankyu@wipo.int
*****
* revision history
***** -->

Created 2001 June 26, Shiro Ankyu, WIPO
..set version to v0.1

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

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

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

<!--common elements Document, application identification group          -->
<!ELEMENT document-id          (country,doc-number,name?,kind?,date?)        >

<!--* Country use ST.3 country code eg. DE, FR, GB, NL - changed
     also, therefore, includes EP, WO                                         -->
<!ELEMENT country              (#PCDATA)                                    >

<!ELEMENT region                (country)                                >

<!--Document number
     In case of application ; application number
     In case of publication ; publication number
     In case of grant patent; patent number                               -->
<!ELEMENT doc-number            (#PCDATA)                                    >

<!--NAME if no distinction or detail can be given.
     Also to be used for:
     personal (natural-person) and corporate (legal entity) names       -->
<!ELEMENT name                  (#PCDATA)                                    >
<!ATTLIST name
          type (legal | natural)    #REQUIRED                         >

<!--kind code,
<!ELEMENT kind                  (#PCDATA)                                    >

<!--filing language, ISO639 language code, e.g., en,de,ja,               -->
<!ELEMENT language-of-filing    (#PCDATA)                                    >

<!--PCT: applicant's or agent's file reference, if desired,

```

```

12 characters maximum -->
<!ELEMENT file-reference-id (#PCDATA) >

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

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

<!--BIOlogical deposit CITation
(US EFS: biological-deposit)
According to PCT Rule 13bis, EPC Rule 28
This covers all bio data references long and short
within the description and/or claims -->

-->
<!ELEMENT bio-deposit (depositary,bio-accno,date?,term?,dtext?) >
<!ATTLIST bio-deposit
    id      ID      #REQUIRED
    num    CDATA   #REQUIRED
    url     CDATA   #IMPLIED
    dnum   CDATA   #IMPLIED >

-->
<!ELEMENT depositary (#PCDATA | address)* >

<!--* ADDRESS COMPONENTS
Address formats differ from country to country
If no structure possible use pctext -->
<!ELEMENT address ((address-1?,address-2?,address-3?,street?,
                    city?,county?,state?, postcode,country) |
                    text) >

-->
<!ELEMENT address-1 (#PCDATA) >
<!ELEMENT address-2 (#PCDATA) >
<!ELEMENT address-3 (#PCDATA) >

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

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

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

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

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

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

-->
<!--Accession number
<!ELEMENT bio-accno (#PCDATA) >

-->
<!-- DATE: Components of a date (date) YYYYMMDD
The date of deposit -->
<!ELEMENT date (#PCDATA) >

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

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

```

```

<!--Addtional indication -->
<!ELEMENT addtional-indication (#PCDATA) >

<!--Designated states for which indications are made -->
<!ELEMENT all-designations EMPTY >

<!ELEMENT designated-states (country*,(region,country+)* ) >

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

<!--
      DOC-PAGE - DOCUMENT or PAGE
      This is primarily to be used when data for 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
      <image> may also be used for complete pages, eg. in drawings
-->
<!ELEMENT doc-page EMPTY >
<!ATTLIST doc-page
      id      ID      #REQUIRED
      he     NMTOKEN #REQUIRED
      wi     NMTOKEN #REQUIRED
      type   (jpg | tiff | jfif | pdf | jpeg | tif)  #REQUIRED
      alt    CDATA   #IMPLIED
      label  CDATA   #IMPLIED
      pp    CDATA   #IMPLIED
      ppf   CDATA   #IMPLIED
      ppl   CDATA   #IMPLIED
      file  CDATA   #REQUIRED
      color (color | bw)  #IMPLIED
      >
<!-- END OF DTD -->

```

### 3.8 Receiving Office information

```

<!--
***** ro-request-receiving-info v0.1 2001 APRIL *****
***** public "-//wipo//dtd ro-request-receiving-info v0.1 2001-04-30/en"*****
***** contacts:
* EPO: Paul Brewin; pbrewin@epo.org
* JPO: Mitsuru Sono; sono-mitsuru@jpo.go.jp
* USPTO: Bruce B. Cox; bruce.cox@uspto.gov
* WIPO: Shiro Ankyu; shiro.ankyu@wipo.int
*
***** Revision History *****
Created 2001-05-08, Geneva, -->

<!DOCTYPE ro-request-receiving-info [ -->
<!--Define some entities -->
<!--Name group entity, please see name element group for each elements -->

<!ENTITY % nam "((name | (prefix?,last-name,first-name,middle-name?,suffix?,
    iid?, role?,orgname?,department?,synonym*)),
    registered-number?)" >
<!-- PCT receiving office filing information for PCT request -->
<!ELEMENT ro-request-receiving-info (application-reference,ro-info,
    signatories?) >

<!-- attributes for iper -->
<!--
<!-- lang :language code of attached document, -->
<!--           ISO639 language code,e.g, en,de,ja,, -->
<!-- dtd-version :dtd version number -->
<!-- date-produced :YYYYMMDD e.g, 20011230 -->
<!-- ro :Receiving office name, country code ST.3 -->

<!ATTLIST ro-request-receiving-info
    lang          CDATA #REQUIRED
    dtd-version   CDATA #IMPLIED
    date-produced CDATA #IMPLIED
    status        CDATA #IMPLIED
    ro            CDATA #REQUIRED >

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

<!-- PCT receiving office information for PCT application -->
<!ELEMENT ro-info (date-of-actual-receipt,drawings-not-received?,
    corrected-date-receipt?,
    receipt-pct11-2?,isa?,search-copy-delayed?) >

<!-- Date of actual receipt of the purported international application -->
<!ELEMENT date-of-actual-receipt (date) >

<!-- If drawing was not received,this empty tag exists -->
<!ELEMENT drawings-not-received EMPTY >

<!-- Corrected date of actual receipt due to later but timely received documents or drawings completing the purported international application -->
<!ELEMENT corrected-date-receipt (date) >

```

```

<!-- date of timely receipt of the required corrections under      -->
<!-- PCT Article 11(2)      -->
<!ELEMENT receipt-pct11-2      (date)      >

<!-- isa country name, if two or more are competent      -->
<!ELEMENT isa      (country)      >

<!-- Transmittal of search copy delayed until search      -->
<!-- fee is paid      -->
<!ELEMENT search-copy-delayed      EMPTY      >

<!-- NAME if no distinction or detail can be given.
Also to be used for:
personal (natural-person) and corporate (legal entity) names      -->
<!ELEMENT name      (#PCDATA)      >
<!ATTLIST name
    type (legal | natural) #REQUIRED      >

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

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

<!-- First, given, middle name(s), initials
eg. John, John F., J.F, John Frederick      -->
<!ELEMENT first-name      (#PCDATA)      >
<!ELEMENT middle-name      (#PCDATA)      >

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

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

<!-- Role, eg President added 02.11.2000 PB ISO 12083      -->
<!ELEMENT role      (#PCDATA)      >

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

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

<!-- Synonym, cross-reference      -->
<!ELEMENT synonym      (#PCDATA)      >

<!-- Applicant's, agent's registration number with the office      -->
<!ELEMENT registered-number      (#PCDATA)      >
<!-- Document identification refers to patents only and
is used in several other dtds it should not be changed
without consultation with WIPO;      -->
<!ELEMENT document-id      (country,doc-number,kind?,name?,date?)      >
<!ELEMENT doc-number      (#PCDATA)      >

<!-- * doc. kind code eg A1      -->
<!ELEMENT kind      (#PCDATA)      >

<!-- * Country use ST.3 country code eg. DE, FR, GB, NL - changed

```

```

    also, therefore, includes EP, WO                                -->
<!ELEMENT country          (#PCDATA)                                >

<!-- date, YYYYMMDD, e.g., 20011230                                -->
<!ELEMENT date            (#PCDATA)                                >

<!-- filing language, ISO639 language code, e.g., en,de,ja,        -->
<!ELEMENT language-of-filing (#PCDATA)                            >

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

<!ELEMENT signatory        (%nam;, electronic-signature,
                           signatory-capacity?) >

<!ELEMENT electronic-signature  (basic-signature | enhanced-signature) >
<!ATTLIST electronic-signature
         date      CDATA      #REQUIRED
         place-signed CDATA      #IMPLIED

<!ELEMENT signatory-capacity (#PCDATA)                                >

<!ELEMENT basic-signature   (fax-image | text-string | click-wrap) >
<!ELEMENT enhanced-signature (pkcs7)                                >

<!ELEMENT fax-image        EMPTY                                >
<!ATTLIST fax-image
         file      CDATA      #REQUIRED

<!ELEMENT text-string      (#PCDATA)                                >

<!ELEMENT click-wrap       EMPTY                                >

<!ELEMENT pkcs7            EMPTY                                >

<!-- END OF DTD                                -->

```

## 4 DTD's for use in document packaging and transmission

### 4.1 Package header

```

<!--
*****
* pkgheader v0.3      2001 APRIL
*****
* public "-//wipo//dtd pkgheader v0.3 2001-04-30/en"
*****
* contacts:
* EPO:    Paul Brewin; pbrewin@epo.org
* JPO:    Mitsuru Sono; sono-mitsuru@jpo.go.jp
* USPTO: Bruce B. Cox; bruce.cox@uspto.gov
* WIPO:   Shiro Ankyu; shiro.ankyu@wipo.int
*
*****
-->

<!--DOCTYPE pkgheader[                                     -->
<!-- Define some entities                           -->
<!-- Name group entity, please see name element group for each elements -->
<!ENTITY % nam "((name | (prefix? , last-name , first-name , middle-name? , suffix?
, iid? , role? , orgname? , department? , synonym*) , registered-number?)">

<!-- Root element package header                   -->
<!ELEMENT pkgheader (transmittal-info? , submission-type? , application-type? ,
payment-method? , us-pgpub-info? , wasp-message-digest? , filelist?)>

<!-- transmittal-information                      -->
<!ELEMENT transmittal-info (new-application | subsequent-filing | office-to-office
| office-to-applicant)>

<!-- New application information from applicant to office           -->
<!ELEMENT new-application (invention-title? , first-named-applicant? , file-
reference-id?)>

<!-- title of invention                                -->
<!ELEMENT invention-title (#PCDATA | b | i | u | sup | sub)*>

<!ATTLIST invention-title id ID #REQUIRED
          lang CDATA #IMPLIED >
<!-- first applicant name in applicant group           -->
<!ELEMENT first-named-applicant %nam;>

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

<!-- Subsequent Filing information, before Issue Date.           -->
<!ELEMENT subsequent-filing (invention-title? , first-named-applicant ,
confirmation-number? , file-reference-id? , (application-reference | (patent-
reference , application-reference)))>

<!-- confirmation number from office to applicant            -->
<!ELEMENT confirmation-number (#PCDATA)>

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

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

<!-- publication reference information : publication number,date,etc -->

```

```

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

<!-- Document transfer information between offices. -->
<!ELEMENT office-to-office (application-reference , publication-reference? , file-
reference-id? , from , to)>

<!-- the office sends the document -->
<!ELEMENT from (country)>

<!-- the office receives the document -->
<!ELEMENT to (country)>

<!-- office to applicant information -->
<!ELEMENT office-to-applicant (from , invention-title? , first-named-applicant ,
confirmation-number? , file-reference-id? , (application-reference | (patent-
reference , application-reference)))>

<!-- submission type -->
<!ELEMENT submission-type EMPTY>

<!ATTLIST submission-type submission-type (notification |
                                             pgpub |
                                             amendment |
                                             to-be-determined |
                                             application |
                                             request-for-examination ) #REQUIRED
>
<!-- application type -->
<!ELEMENT application-type EMPTY>

<!ATTLIST application-type type (reexamination |
                                    reissue |
                                    pct |
                                    regular |
                                    trademark |
                                    patent |
                                    utility-model |
                                    design ) #REQUIRED >

<!-- Payment method -->
<!ELEMENT payment-method (fee+ , (deposit-account | credit-card | other-ecommerce-
method))>

<!ATTLIST payment-method amount CDATA #REQUIRED
                           type   CDATA #REQUIRED >
<!ELEMENT fee EMPTY>

<!ATTLIST fee fee-code CDATA #REQUIRED
              amount   CDATA #REQUIRED
              qty      CDATA #REQUIRED >
<!ELEMENT deposit-account EMPTY>

<!ATTLIST deposit-account number CDATA #REQUIRED
                           name    CDATA #REQUIRED >
<!ELEMENT credit-card EMPTY>

<!ATTLIST credit-card number     CDATA #REQUIRED
                           expires   CDATA #REQUIRED
                           name      CDATA #IMPLIED
                           postal-code CDATA #IMPLIED >
<!ELEMENT other-ecommerce-method EMPTY>

<!-- Wrapped and signed package message digest -->
<!ELEMENT wasp-message-digest (#PCDATA)>

<!-- HIGHLIGHTED ELEMENTS
      bold, italic, underscore,
      If we do not use these we have to have a generic tag such as

```

```

    emphasis with styles or levels because users want to use
    these and we need to mark it up - it is far simpler to have
    the tags shown below                                     -->
<!-- * bold                                         -->
<!ELEMENT b (#PCDATA | i | u | smallcaps | br)*>

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

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

<!-- * Underscore attribute: style - single is default      -->
<!ATTLIST u style (single | double | dash | dots ) "single">

<!-- * Superscript attribute: position (post)           -->
<!ELEMENT sup (#PCDATA | b | u | i)*>

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

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

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

<!-- NAME if no distinction or detail can be given.
     Also to be used for:
     personal (natural-person) and corporate (legal entity) names      -->
<!ELEMENT name (#PCDATA)>

<!ATTLIST name type (legal | natural ) #REQUIRED >
<!--                      *Title e.g., Mr., Mrs., Dr. etc*          -->
<!ELEMENT prefix (#PCDATA)>

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

<!-- First, given, middle name(s), initials
     eg. John, John F., J.F, John Frederick                         -->
<!ELEMENT first-name (#PCDATA)>

<!ELEMENT middle-name (#PCDATA)>

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

<!--                      * Individual id *                                -->
<!ELEMENT iid (#PCDATA)>

<!--                      * Role, eg President added 02.11.2000 PB ISO 12083 *      -->
<!ELEMENT role (#PCDATA)>

<!--                      * Organisation name *                                -->
<!ELEMENT orgname (#PCDATA)>

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

<!--                      * Synonym, cross-reference *                                -->
<!ELEMENT synonym (#PCDATA)>

<!-- Applicant's, agent's registration number with the office      -->
<!ELEMENT registered-number (#PCDATA)>

<!-- common elements                                         -->
<!-- Document, application identification group                  -->

```

```

<!ELEMENT document-id (country , doc-number , name? , kind? , date?)>

<!-- Document number -->
<!-- In case of application ; application number -->
<!-- In case of publication ; publication number -->
<!-- In case of grant patent; patent number -->
<!ELEMENT doc-number (#PCDATA)>

<!-- kind code, -->
<!ELEMENT kind (#PCDATA)>

<!-- date, YYYYMMDD, e.g, 20011230 -->
<!ELEMENT date (#PCDATA)>

<!-- Country use ST.3 country code eg. DE, FR, GB, NL - changed
     Includes region codes for EP, AP, EA, OA -->
<!ELEMENT country (#PCDATA)>

<!-- language-of-filing -->
<!ELEMENT language-of-filing (#PCDATA)>

<!--US: specifies type of submission for pre-grant publication-->
<!ELEMENT us-pgpub-info (publication-filing-type , request-for-early-publication?)>

<!ELEMENT publication-filing-type EMPTY>

<!ATTLIST publication-filing-type values (new-utility |
                                              voluntary |
                                              original-publication-amended |
                                              original-publication-redacted |
                                              republication-amended |
                                              republication-redacted |
                                              corrected ) 'new-utility' >
<!ELEMENT request-for-early-publication EMPTY>

<!--This relates to the data item in the original PCT package header dtd -->
<!ELEMENT filelist (file-content+)>

<!ELEMENT file-content EMPTY>

<!ATTLIST file-content file          CDATA #REQUIRED
           kind-of-content CDATA #REQUIRED
           type          CDATA #REQUIRED
           id            ID    #REQUIRED
           parent        CDATA #REQUIRED
           size          CDATA #REQUIRED >

<!-- END OF DTD -->

```

## 4.2 Transmission receipt

```
<!--transmission-receipt v0.3, 2001 Jan 29
public "-//wipo//dtd epct-xmit-receipt v0.3 2001-01-29//en"

contacts:
EPO: John Bambridge; jbambridge@email.epo.nl
JPO: Mitsuru Sono; sono-mitsuru@jpo.go.jp
USPTO: Bruce B. Cox; bruce.cox@uspto.gov
WIPO: Shiro Ankyu; shiro.ankyu@wipo.int
WIPO: John Godman; john.godman@wipo.int

***** Revision History *****
Revised 2001 Jan 29, Shiro Ankyu, WIPO, and John Godman, WIPO
..set version to v0.3
..renamed from "confirmation certificate" to "transmission receipt"
..changed CONFCERTIFICATE element
...renamed to XMIT-RECEIPT
...replaced APPLICATION-NUMBER and APPLICANTS-REFERENCE with INTERNATIONAL-
FILING Revised 2000 June 8, Shiro Ankyu, WIPO, and John Godman, WIPO
..set version to v0.2
..changed encoding to "UTF-8"
..changed CONFCERTIFICATE element
...added APPLICATION-DOCUMENTS element with FILE-NAME entity attribute
...in order to more closely reflect Annex F, Appendix I, v4.0 (see section
6.2.2) Created 1999 August, SCIT/P Annex F, Appendix II -->

<!--##### Transmission receipt #####
<!ELEMENT xmit-receipt (international-filing,receipt-of-application,action,
message-digest,result-code,result-message,
application-documents?) >
<!ATTLIST xmit-receipt
      dtd      CDATA      #IMPLIED
      apref    CDATA      #IMPLIED
      status   CDATA      #IMPLIED >

<!--##### International application number, country #####
<!ELEMENT international-filing (number,country?) >
<!ELEMENT number          (#PCDATA) >
<!ELEMENT country         (#PCDATA) >
<!ELEMENT receipt-of-application (date) >
<!ELEMENT date            (#PCDATA) >
<!ELEMENT action           (#PCDATA) >
<!ELEMENT message-digest  (#PCDATA) >
<!ELEMENT result-code     (#PCDATA) >
<!ELEMENT result-message  (#PCDATA) >
<!ELEMENT application-documents EMPTY
<!ATTLIST application-documents
      file    ENTITY      #REQUIRED >

<!-- END OF DTD -->
```

[End of document]