



# Importing XML data into epoline<sup>®</sup> Online Filing 3.0

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**European  
Patent Office**

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<hr/>	

## CHAPTER 1

Importing XML data into *epoline*®

&lt;ep-request&gt;

epoline® Online Filing - EP(1001E) - myref

File Edit View Tools Windows Help

EP(1001E) - Draft - myref Last saved on 27-02-2006

Request Names States Priority Biological Material Documents Fee Payment Annotations

Grant of European patent and examination of the application under Article 94, are hereby requested.

Filing Office: EP European Patent Office (EPO)

Request for examination in admissible non-EPO language:

Filing Language:  EPO Language is English  
 Admissible Non-EPO language:

**Title of Invention**

Title of Invention in English Translation into French Translation into German

Electronic device Dispositif électronique Elektronische Vorrichtung

**Past Record**

Divisional application of earlier application: 101010.7

Art. 61(1)(b) EPC application of earlier application: 0.0

&lt;/ep-request&gt;

---

## Management Summary

This document gives details of how Patent Management Systems (PMS) could import XML data into the *epoline*® Online Filing products.



## CHAPTER 2

# Summary

This document is intended to help system developers and programmers to write data conversion programs from any Patent Management System (PMS), or any other similar system storing patent data, and then to import that data into the *epoline*® Online Filing (OLF) client (Version 3.0).

There are several PMS products in the world. Some are “off-the-shelf”, such as CPI Patent Management System, NetsPat, etc... and some have been developed in-house. It would be very difficult if not impossible for the EPO to write conversion programs for all the different systems. Fortunately there is a common denominator to which all systems could convert - that is a standard set of XML tags (elements) based on an internationally agreed standard.

**Note** See for example <http://www.piperpat.co.nz/resource/software.html> for a list of over 60 PMS's.

Behind all *epoline*® GUIs lies XML conforming to the following PCT standard:

*Administrative Instructions under the Patent Cooperation Treaty (PCT):*

*Part 7: Instructions Relating to the Electronic Filing and Processing of International Applications; Annex F: Standard for the Electronic Filing and Processing of International Applications, Appendix I: XML DTDs for the E-PCT Standard (Annex F, for short);*

See: [http://pcteasy.wipo.int/efiling\\_standards](http://pcteasy.wipo.int/efiling_standards).

This document gives complete details of the XML elements and attributes for the following eOLF products:

- § 1001e (patent application request)
- § 1200e (euro-pct)
- § RO101e (PCT) (to be added)

**Note** This document and DTDs are available online at:

<http://www.epoline.org/onlinefilingdocs/importingXML.doc>

## CHAPTER 3

# 1001E (Request for grant of a European patent)

---

## Introduction

Form 1001 is the key form of the European patent grant procedure. Each file in the grant procedure starts with Form 1001 (or the corresponding Form 1200, for PCT applications). Further, it is the only form whose use by the applicant is prescribed by the European Patent Convention (see Rule 26(1) EPC).

EPC Rule 26 specifies in detail the data elements which this form must contain.

The *epoline*® Online Filing (OLF) client (Version 3.0) provides a Graphical User Interface (GUI) which helps the user fill in all the required data, verifying the input and indicating whether or not it is complete and ready for filing. The output is an XML file which is transmitted to the Receiving Office.

In the following sections, we describe the GUI and indicate which pieces of data are filled in at each step, showing sample XML code produced by the application. To see an overview of the complete XML data, refer to the corresponding DTD (`ep-request.dtd`).

At the end we give a list of all the XML tags used by this application, together with an explanation of their function and how to use them.

**Note** It is possible to import XML data directly into the OLF GUIs (see Section 5).

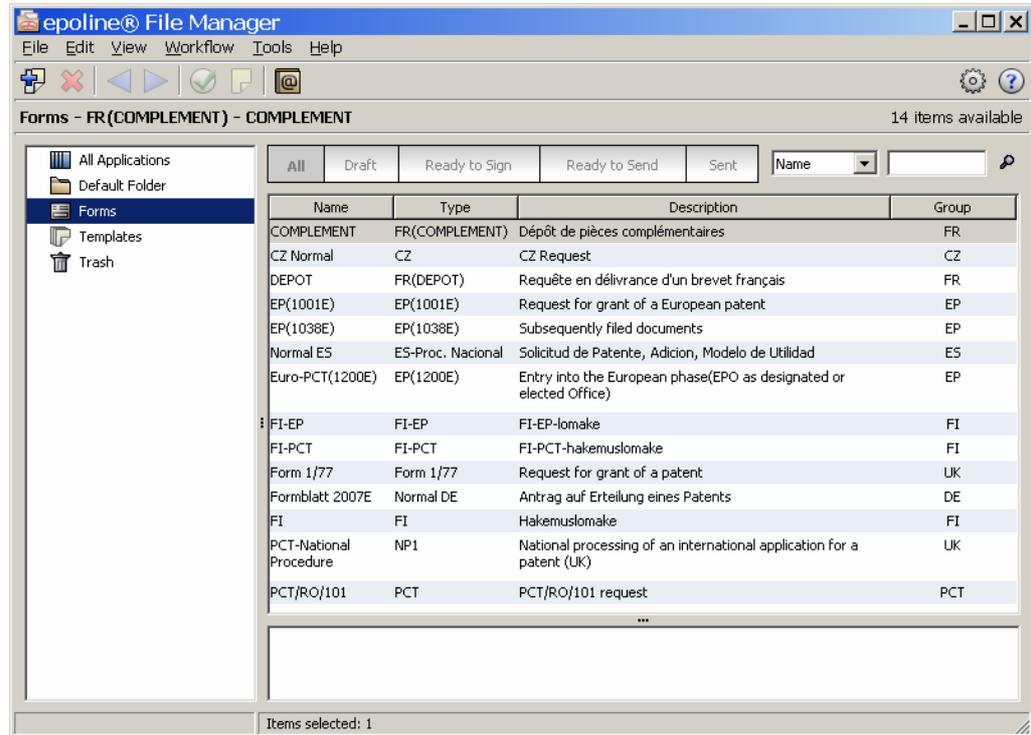
---

## GUI screenshots and XML tagging

In this section we explain the different XML tags of the OLF client (Version 3.0) by showing them together with the data fields (as seen in the screenshots) which generate them. As an example, the data they contain is also shown, as extracted from the export utility of OLF. For the complete DTD defining these tags, refer to Annexes II-V.

## Form selection GUI

This is the first window that the user sees when running the eOLF application. Here, the user can choose between filing a request for grant of a European patent (form 1001), filing subsequent documents to the request of a patent application (form 1038), filing a request for examination of an international patent in the regional phase (form 1200), or filing a request for examination of an international patent (PCT/RO/101). Then, the user is asked for the language of the request and for the file reference:



For this section, we will select the first option EP1001E Request for grant of a European Patent.

The next screen sets the language of the proceedings, and lets the user enter a reference value for his or her records:

The screenshot shows a dialog box titled "Create a New Application". It contains the following fields and options:

- User Reference: myref
- Procedure: EP(1001E)
- Based on Template: <none>
- Language of proceedings: English
- Customer number: (empty)
- Save to folder: Default Folder

Buttons: Create, Cancel

The tags which get filled in at this point are the following:

```
<ep-request lang="en" dtd-version="1.0" ro="EP" produced-  
by="applicant">  
  <file-reference-id>myref</file-reference-id>  
</ep-request>
```

## Request GUI

The following screen determines the filing language, the title in the filing language plus its translations, and whether the application is divisional, or an application according to EPC Art. 61:

The corresponding sections of the XML code are:

```
<request-petition>Grant of European patent, and examination of
the application under Article 94, are hereby
requested.</request-petition>
```

```
<ep-divisional-appl>101010.7</ep-divisional-appl>
```

When the check box for Art. 61(1) is selected, we get:

```
<ep-art61-appl>101015.5</ep-art61-appl>
```

Selecting a non-EPO language for the request:

```

1. <ep-language-of-filing lang-code="non-epo">es</ep-language-
of-filing>
<ep-language-of-filing lang-code="epo">es</ep-language-of-
filing>

<ep-request-for-exam-art94 lang="es" />

```

Another possible value for the lang-code attribute is:

```
lang-code= "translation"
```

As for the title and its translations:

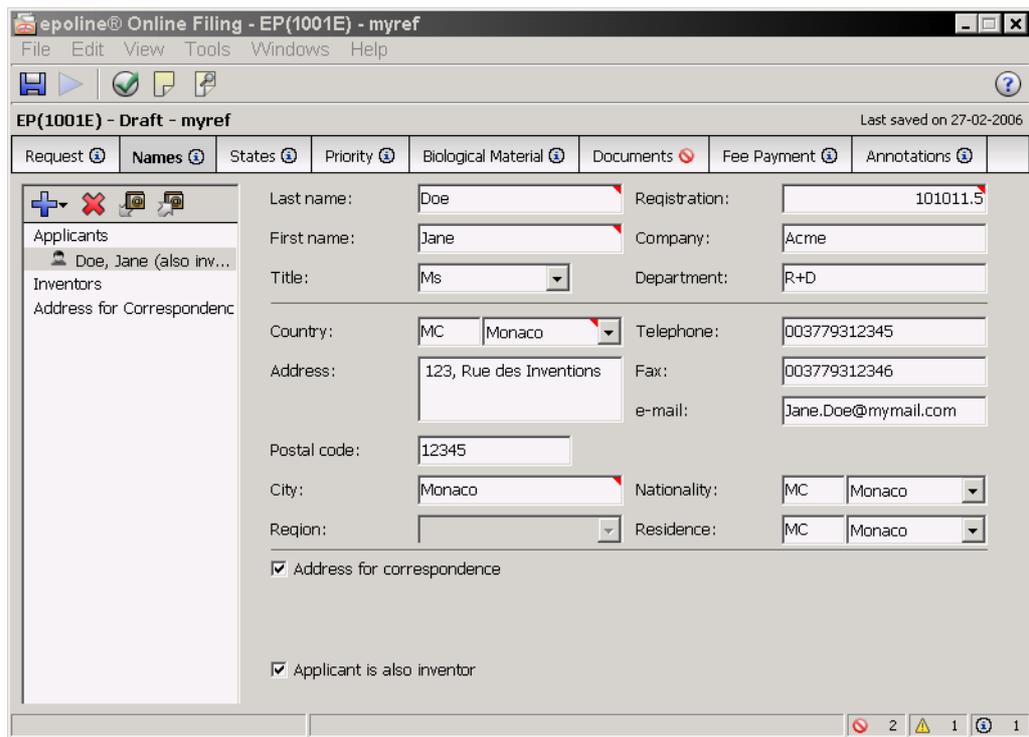
```

2. <invention-title lang="en">Electronic Device</invention-
title>
<invention-title lang="fr">Dispositif électronique</invention-
title>
<invention-title lang="de">Elektronische Vorrichtung</invention-
title>

```

## Names GUI

The following tab lets you enter the information about applicants and inventors:



epoline® Online Filing - EP(1001E) - myref

File Edit View Tools Windows Help

EP(1001E) - Draft - myref Last saved on 27-02-2006

Request Names States Priority Biological Material Documents Fee Payment Annotations

Applicants  
Doe, Jane (also inv...  
Inventors  
Address for Correspondence

Last name: Doe Registration: 101011.5  
First name: Jane Company: Acme  
Title: Ms Department: R+D  
Country: MC Monaco Telephone: 003779312345  
Address: 123, Rue des Inventions Fax: 003779312346  
e-mail: Jane.Doe@mymail.com  
Postal code: 12345  
City: Monaco Nationality: MC Monaco  
Region: Residence: MC Monaco

Address for correspondence  
 Applicant is also inventor

2 1 1

```

<applicants>
  <applicant sequence="1" designation="as-indicated" app-
type="applicant-inventor">
    <addressbook lang="en">
      <prefix>Ms</prefix>
      <last-name>Doe</last-name>
      <first-name>Jane</first-name>
      <orgname>Acme</orgname>
      <department>R+D</department>
      <registered-number>101011.5</registered-number>
      <address>
        <street>123, Rue des Inventions</street>
        <city>Monaco</city>
        <state></state>
        <postcode>12345</postcode>
        <country>MC</country>
      </address>
      <phone>003779312345</phone>
      <fax>003779312346</fax>
      <email>Jane.Doe@mymail.com</email>
    </addressbook>
    <nationality>
      <country>MC</country>
    </nationality>
    <residence>
      <country>MC</country>
    </residence>
  </applicant>
</applicants>

```

We could have a "legal" applicant as well:

epoline® Online Filing - EP(1001E) - myref

File Edit View Tools Windows Help

EP(1001E) - Draft - myref Last saved on 06-03-2006

Request	Names	States	Priority	Biological Material	Documents	Fee Payment	Annotations
Applicants Doe, Jane Acme Inventors Address for Correspondence		Company:	Acme	Registration:	101011.5		
		Department:	R+D				
		Country:	MC Monaco	Telephone:	003779312345		
		Address:	123, Rue des Inventions	Fax:	003779312346		
		Postal code:	12345	e-mail:	randd@acme.com		
		City:	Monaco				
		Region:		Residence:	MC Monaco		
		<input type="checkbox"/> Address for correspondence					
		<input type="checkbox"/> Acme is represented by the following employee acting pursuant to Art. 133(3) EPC;					
		Last name:		General			
		First name:					
		Title:					

2 2 1

```

<applicants>

```

```

    <applicant sequence="2" designation="as-indicated" app-
type="applicant">
    <addressbook lang="en">
    <name name-type="legal">Acme</name>
    <registered-number>101011.5</registered-number>
    <address>
    <address-2>R+D</address-2>
    <street>123, Rue des Inventions</street>
    <city>Monaco</city>
    <state></state>
    <postcode>12345</postcode>
    <country>MC</country>
    </address>
    <phone>003779312345</phone>
    <fax>003779312346</fax>
    <email>randd@acme.com</email>
    </addressbook>
    <nationality>
    <country/>
    </nationality>
    <residence>
    <country>MC</country>
    </residence>
    </applicant>

```

By adding a new Address for correspondence, the following tags are also filled in:

```

<correspondence-address>
  <addressbook lang="en">
    <name name-type="legal">Acme</name>
    <registered-number>101010.7</registered-number>
    <address>
      <address-1>R&D Dept.</address-1>
      <street>123, Rue des Inventions</street>
      <city>Monaco</city>
      <postcode>12345</postcode>
      <country>MC</country>
    </address>
  </addressbook>

```

Inventors have a few extra options:

The applicant has acquired the right to the European patent as follows:

As employer

As successor in title

Under agreement of

Waiver by inventor of under Rule 17(3) EPC

Renunciation of title by inventor (Rule 18(1) EPC)

```

<inventors>

```

```

<inventor sequence="1" designation="as-indicated"
waiver="1" renunciation="1" inv-rights="under-agreement" inv-
rights-date="20030715">
  <addressbook lang="en">
    <prefix>Mr.</prefix>
    <last-name>R. Finder</last-name>
    <first-name>Chuck</first-name>
    <orgname>Acme</orgname>
    <department>R & D</department>
    <address>
      <street>123, Rue des Inventions</street>
      <city>Monaco</city>
      <postcode>12345</postcode>
      <country>MC</country>
    </address>
  </addressbook>
</inventor>
</inventors>

```

## States GUI

The states GUI comprises Designation States (those states member of the EPC) and Extension States (those which are not EPC members but having extension agreements).

In the first case, the user can designate all the contracting states or fewer than seven.

epoline® Online Filing - EP(1001E) - myref

File Edit View Tools Windows Help

EP(1001E) - Draft - myref Last saved on 14-03-2006

Request Names States Priority Biological Material Documents Fee Payment Annotations

Designation Extension

Different designations for different applicants

All states which are contracting states to the EPC at the time of filing of this application are hereby designated.

It is currently intended to pay seven times the amount of the designation fee. The designation fees for all the contracting states are thereby deemed to have been paid (Art. 2, No. 3, RFees).

It is currently intended to pay fewer than seven designation fees for the following contracting states: 5 selected

<input type="checkbox"/> AT Austria	<input type="checkbox"/> EE Estonia	<input type="checkbox"/> IS Iceland	<input type="checkbox"/> PL Poland
<input type="checkbox"/> BE Belgium	<input checked="" type="checkbox"/> ES Spain	<input checked="" type="checkbox"/> IT Italy	<input type="checkbox"/> PT Portugal
<input type="checkbox"/> BG Bulgaria	<input type="checkbox"/> FI Finland	<input type="checkbox"/> LT Lithuania	<input type="checkbox"/> RO Romania
<input type="checkbox"/> CH/LI Switzerland/Liechtenstein	<input type="checkbox"/> FR France	<input type="checkbox"/> LU Luxembourg	<input type="checkbox"/> SE Sweden
<input type="checkbox"/> CY Cyprus	<input checked="" type="checkbox"/> GB United Kingdom	<input type="checkbox"/> LV Latvia	<input type="checkbox"/> SI Slovenia
<input type="checkbox"/> CZ Czech Republic	<input type="checkbox"/> GR Greece	<input checked="" type="checkbox"/> MC Monaco	<input type="checkbox"/> SK Slovakia
<input checked="" type="checkbox"/> DE Germany	<input type="checkbox"/> HU Hungary	<input type="checkbox"/> NL Netherlands	<input type="checkbox"/> TR Turkey
<input type="checkbox"/> DK Denmark	<input type="checkbox"/> IE Ireland		

It is requested that no communication under Rules 85a (1) or 69 (1) need be notified in respect of the contracting states not indicated. If an automatic debit order has been issued, the EPO is authorised, on expiry of the basic period under Article 79 (2), to debit seven times the amount of the designation fee. If less than seven states are indicated, the EPO shall debit designation fees only for those states, unless it is instructed to do otherwise before expiry of the basic period.

2 1 1

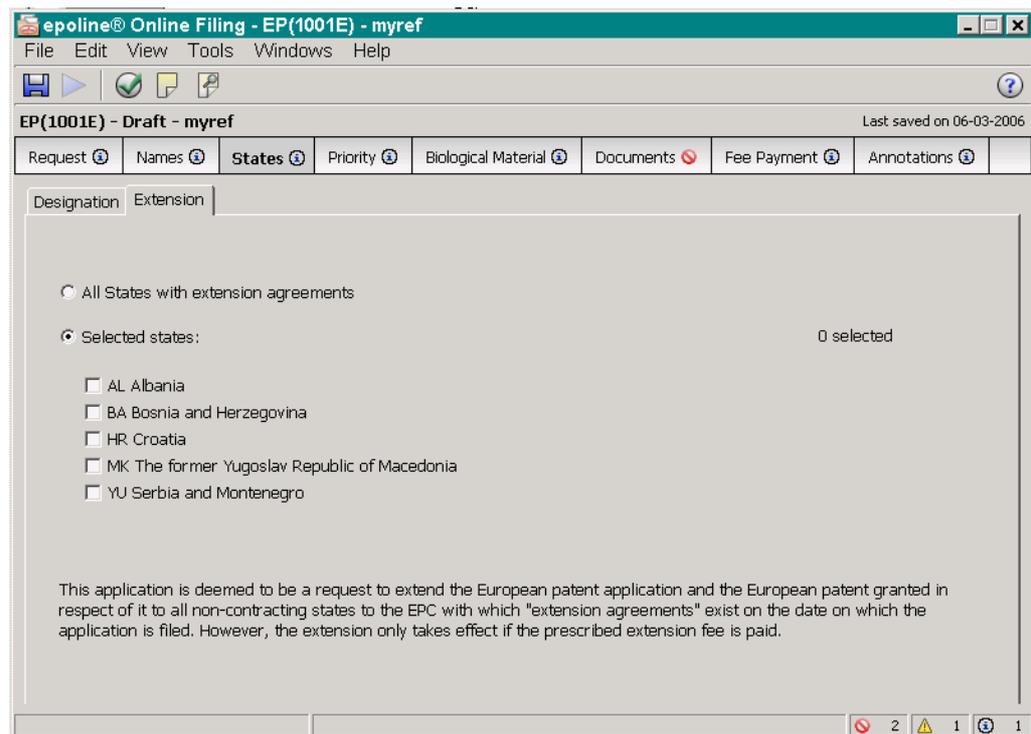
The tags created in the first case are:

```
<ep-designated-states>
  <region>
    <country>EP</country>
  </region>
  <extension-states/>
</ep-designated-states>
```

Should the applicant select fewer than 7 countries, the output would look like this:

```
<ep-designated-states>
  <country>DE</country>
  <country>ES</country>
  <country>GB</country>
  <country>IT</country>
  <country>MC</country>
  <extension-states>
    <country>AL</country>
    <country>LT</country>
    <country>LV</country>
  </extension-states>
</ep-designated-states>
```

The Extension States GUI looks as follows:



```
<extension-states>
  <country>AL</country>
  <country>BA</country>
  <country>MK</country>
</extension-states>
```

## Priority GUI

The declaration of priorities window allows to add the priority document(s) claimed by the applicant. There can be more than one:

epoline® Online Filing - EP(1001E) - myref

File Edit View Tools Windows Help

EP(1001E) - Draft - myref Last saved on 14-03-2006

Request Names States **Priority** Biological Material Documents Fee Payment Annotations

National office: MC Monaco

Kind: patent

Filing date: 14 August 2005

Application number: 9876

It is hereby declared that the application is a complete translation of the previous application (Rule 38(5) EPC)

2 1 1

```
<priority-claims>
  <ep-priority-claim sequence="1" kind="national"
translation="It is hereby declared that the application is a
complete translation of the previous application (Rule 38(5)
EPC)" ep-kind="patent">
  <country>MC</country>
  <doc-number>9876</doc-number>
  <date>20050814</date>
</ep-priority-claim>
</priority-claims>
```

Other possible values for the kind attribute are:

kind="regional"

and

kind="international"

## Biological material GUI

The next tag concerns biological material information:

The screenshot shows the 'epoline® Online Filing - EP(1001E) - myref' application window. The title bar includes 'File Edit View Tools Windows Help'. The main window title is 'EP(1001E) - Draft - myref' with a timestamp 'Last saved on 14-03-2006'. A navigation bar contains tabs: Request, Names, States, Priority, **Biological Material**, Documents, Fee Payment, and Annotations. The 'Biological Material' tab is active, displaying a form with the following fields and options:

- Identification Reference:** Ref.1.2005
- Depository:** Centre de Biotechnologies Avancées
- Name and address:** Italie - Collection interlaboratoires de lignées cellulaires, Largo Rossana Benzi 10, 16132 Gênes
- Accession number:** CBA
- Availability restricted to experts (Rule 28(4))
- Waiver of right to an undertaking from requestor (Rule 28(3) EPC)
- Deposit by a person other than the applicant: Mr. D. Positari, Ave. Independence, Genève, CH
- Other additional information: Sample additional information

The bottom status bar shows icons for a red circle with a slash, a yellow triangle with an exclamation mark, and a blue circle with a question mark, along with the number '1'.

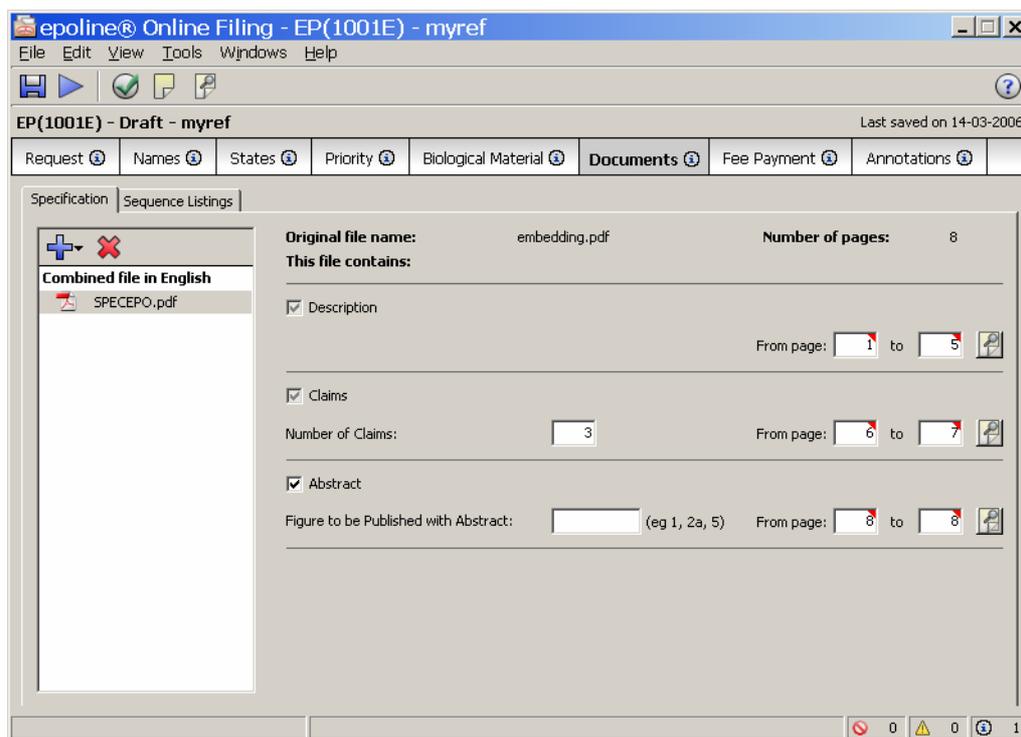
```

<ep-bio-deposit id="bio1" num="CBA" dnum="Ref.1.2005">
  <depository>CBA
    <address>
      <address-1>Italie - Collection interlaboratoires de
lign&#233;es cellulaires, Largo Rossana Benzi 10, 16132
G&#234;nes</address-1>
      <postcode/>
      <country/>
    </address>
  </depository>
  <bio-accno>CBA</bio-accno>
  <ep-bio-add bio-info="1"/>
  <ep-bio-add bio-info="2"/>
  <ep-bio-add bio-info="3" bio-description="Deposit by a
person other than the applicant">Mr. D. Positari,
Ave. Independence, Geneve, CH</ep-bio-add>
  <ep-bio-add bio-info="4" bio-description="Other">Sample
additional information</ep-bio-add>
</ep-bio-deposit>

```

## Contents GUI

The window “Documents” allows the attachment of pdf files containing the different sections of the application. In the following screenshot we see an example of a file containing multiple sections of the application (Combined File):

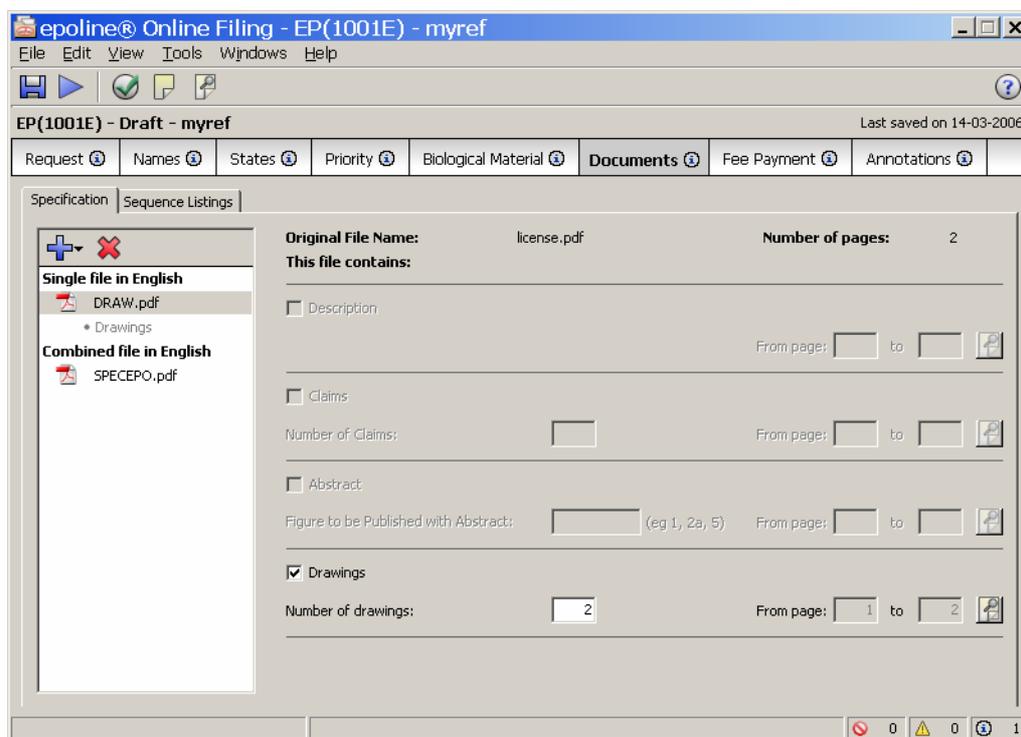


```

<ep-electronic-files doc-type="1001">
  <applicant-file-name/>
  <epo-file-name>ep-request.pdf</epo-file-name>
</ep-electronic-files>
<ep-electronic-files doc-type="SPECEPO">
  <applicant-file-name>myref01.pdf</applicant-file-name>
  <epo-file-name>SPECEPO.pdf</epo-file-name>
</ep-electronic-files>

```

The other file options are very similar, with only some of the fields disabled. For example, adding a Single File would open the following window:



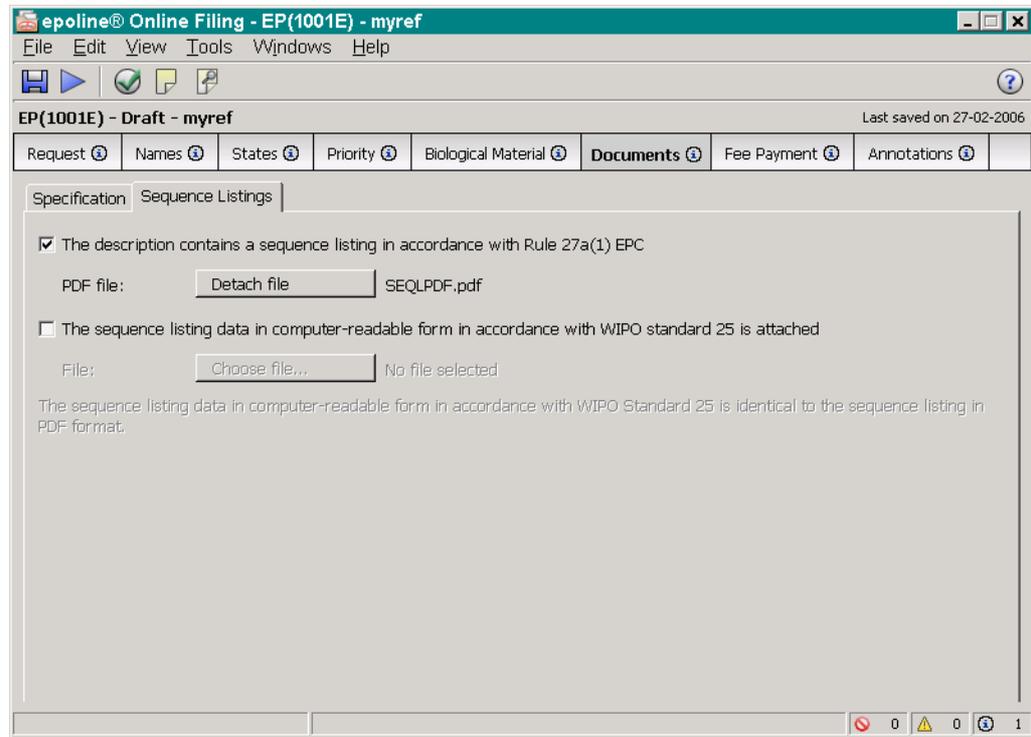
this would add the following lines of data:

```

<ep-electronic-files doc-type="DRAW">
  <applicant-file-name>drawings.pdf</applicant-file-name>
  <epo-file-name>DRAW.pdf</epo-file-name>
</ep-electronic-files>

```

The tab for Sequence Listings looks like this:



```
<ep-electronic-files doc-type="SEQL">
  <applicant-file-name>seqlisting.pdf</applicant-file-name>
  <epo-file-name>SEQLPDF.pdf</epo-file-name>
</ep-electronic-files>
```

## Payment Details GUI

In this screen we can enter the data concerning methods of payment:

```

<ep-financial-data curr="EUR">
  <mode-of-payment accno="28123123" mode-type="auto"
currency="EUR">Acme Inventions</mode-of-payment>
  <reimbursement accno="28123123">Acme
Inventions</reimbursement>
  <sr-refund>9989978</sr-refund>
  <addcopies>1</addcopies>

```

These data are also used in other tags under ep-financial-data. See next section.

## Fees GUI

The fees window is produced by the system based on the data previously entered. It displays, for each fee, its cost and the number of times it is charged (factor). Fees are classified among these types: Standard, Other and Additional.

epoline® Online Filing - EP(1001E) - myref

File Edit View Tools Windows Help

EP(1001E) - Draft - myref Last saved on 14-03-2006

Request Names States Priority Biological Material Documents **Fee Payment** Annotations

Fee selection | Payment Details

Show: Initial fees Code

	Fee C...	Description	Amount EUR	Reduction	Quantity	Amount to Pay EUR
<input checked="" type="checkbox"/>	001	Filing fee online	90,00	none	1	90,00
<input checked="" type="checkbox"/>	002	Fee for a European search	960,00	----	1	960,00
<input checked="" type="checkbox"/>	005	Designation fee for each state designated (max. 7x)	75,00	----	5	375,00
<input checked="" type="checkbox"/>	006	Examination fee	1 280,00	none	1	1 280,00
<input checked="" type="checkbox"/>	015	Claims fee for 11th and each subsequent claim	40,00	----	0	0,00
<input checked="" type="checkbox"/>	029	Priority document	30,00	----	1	30,00
<input type="checkbox"/>	055	Add. copy of docs cited in search report	20,00	----	0	0,00
<input checked="" type="checkbox"/>	403	Extension fee for Latvia (EPC contracting state as from 1.7.2005)	102,00	----	1	102,00
<input checked="" type="checkbox"/>	404	Extension fee for Albania	102,00	----	1	102,00
<input checked="" type="checkbox"/>	406	Extension fee for former Yugoslav Republic of Macedonia	102,00	----	1	102,00

Fee schedule for EUR valid as of: 01.07.2005 **Total: (9 Fees) € 3 041,00**

0 0 0

```
<ep-financial-data curr="EUR">
  <fees date="20020103">
    <fee-total-amount>5557</fee-total-amount>
  </fees>
</ep-financial-data>

  <fees date="20050701">
    <standard-fee>
      <fee index="1" topay="yes">
        <type-of-fee>standard</type-of-fee>
        <fee-factor>1</fee-factor>
        <fee-schedule>90</fee-schedule>
        <fee-sub-amount>90</fee-sub-amount>
      </fee>
      <fee index="2" topay="yes">
        <type-of-fee>standard</type-of-fee>
        <fee-factor>1</fee-factor>
        <fee-schedule>960</fee-schedule>
        <fee-sub-amount>960</fee-sub-amount>
      </fee>
      <fee index="5" topay="no">
        <type-of-fee>standard</type-of-fee>
        <fee-factor>7</fee-factor>
        <fee-schedule>0</fee-schedule>
        <fee-sub-amount>75</fee-sub-amount>
      </fee>
      <fee index="6" topay="no">
        <type-of-fee>standard</type-of-fee>
        <fee-factor>0,8</fee-factor>
        <fee-schedule>0</fee-schedule>
        <fee-sub-amount>1280</fee-sub-amount>
      </fee>
      <fee index="15" topay="yes">
        <type-of-fee>standard</type-of-fee>
        <fee-factor>0</fee-factor>
        <fee-schedule>0</fee-schedule>
        <fee-sub-amount>40</fee-sub-amount>
      </fee>
      <fee index="29" topay="no">
        <type-of-fee>standard</type-of-fee>
        <fee-factor>1</fee-factor>
        <fee-schedule>0</fee-schedule>
        <fee-sub-amount>30</fee-sub-amount>
      </fee>
      <fee index="32" topay="no">
        <type-of-fee>standard</type-of-fee>
        <fee-factor>1</fee-factor>
        <fee-schedule>0</fee-schedule>
        <fee-sub-amount>650</fee-sub-amount>
      </fee>
      <fee index="33" topay="no">
        <type-of-fee>standard</type-of-fee>
        <fee-factor>1</fee-factor>
        <fee-schedule>0</fee-schedule>
        <fee-sub-amount>380</fee-sub-amount>
      </fee>
      <fee index="34" topay="no">
```

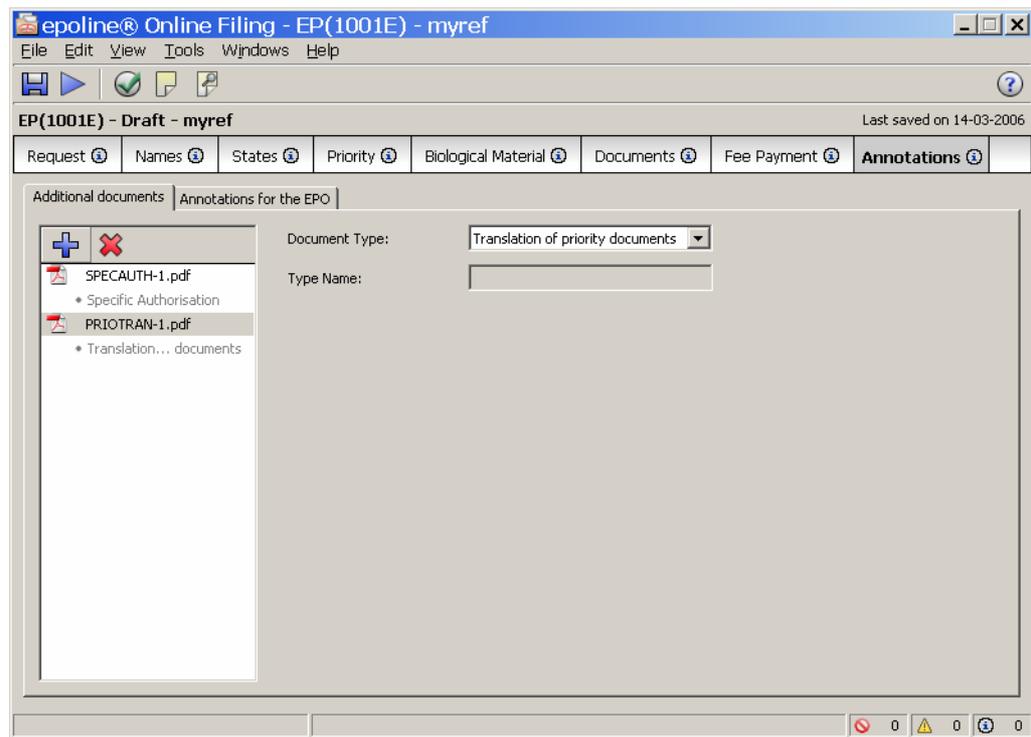
```
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<fee-schedule>0</fee-schedule>
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  <fee-schedule>0</fee-schedule>
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  <fee-factor>1</fee-factor>
  <fee-schedule>0</fee-schedule>
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</fee>
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  <fee-factor>1</fee-factor>
  <fee-schedule>0</fee-schedule>
  <fee-sub-amount>740</fee-sub-amount>
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  <fee-schedule>0</fee-schedule>
  <fee-sub-amount>765</fee-sub-amount>
</fee>
<fee index="39" topay="no">
  <type-of-fee>standard</type-of-fee>
  <fee-factor>1</fee-factor>
  <fee-schedule>0</fee-schedule>
  <fee-sub-amount>970</fee-sub-amount>
</fee>
<fee index="40" topay="no">
  <type-of-fee>standard</type-of-fee>
  <fee-factor>1</fee-factor>
  <fee-schedule>0</fee-schedule>
  <fee-sub-amount>1020</fee-sub-amount>
</fee>
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  <type-of-fee>standard</type-of-fee>
  <fee-factor>1</fee-factor>
  <fee-schedule>0</fee-schedule>
  <fee-sub-amount>1020</fee-sub-amount>
</fee>
<fee index="42" topay="no">
  <type-of-fee>standard</type-of-fee>
  <fee-factor>1</fee-factor>
  <fee-schedule>0</fee-schedule>
  <fee-sub-amount>1020</fee-sub-amount>
</fee>
<fee index="43" topay="no">
  <type-of-fee>standard</type-of-fee>
  <fee-factor>1</fee-factor>
  <fee-schedule>0</fee-schedule>
  <fee-sub-amount>1020</fee-sub-amount>
</fee>
<fee index="44" topay="no">
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</fee>
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  <fee-factor>1</fee-factor>
  <fee-schedule>0</fee-schedule>
  <fee-sub-amount>1020</fee-sub-amount>
</fee>
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  <fee-factor>1</fee-factor>
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  <fee-sub-amount>1020</fee-sub-amount>
</fee>
<fee index="47" topay="no">
  <type-of-fee>standard</type-of-fee>
  <fee-factor>1</fee-factor>
  <fee-schedule>0</fee-schedule>
  <fee-sub-amount>1020</fee-sub-amount>
</fee>
<fee index="48" topay="no">
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</fee>
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</fee>
<fee index="404" topay="no">
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  <fee-schedule>0</fee-schedule>
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  <fee-factor>1</fee-factor>
  <fee-schedule>0</fee-schedule>
  <fee-sub-amount>102</fee-sub-amount>
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<fee index="408" topay="no">
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  <fee-factor>1</fee-factor>
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  <fee-sub-amount>102</fee-sub-amount>
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<fee index="409" topay="no">
  <type-of-fee>standard</type-of-fee>
  <fee-factor>1</fee-factor>
  <fee-schedule>0</fee-schedule>
  <fee-sub-amount>102</fee-sub-amount>
</fee>
</standard-fee>
<fee-total-amount>1070</fee-total-amount>
```

## Annotations GUI

The tab Annotations contains two sub-tabs: Additional documents and Annotations for the EPO. The former lets you add documents necessary for the application, such as authorizations, translations, etc...



The corresponding code is added within the tag <ep-office-specific-data>:

```
<ep-electronic-files doc-type="1003">
  <applicant-file-name>authorisat.pdf</applicant-file-name>
  <epo-file-name>SPEC AUTH-1.pdf</epo-file-name>
</ep-electronic-files>
<ep-electronic-files doc-type="PRIOTRAN">
  <applicant-file-name>transl.pdf</applicant-file-name>
  <epo-file-name>PRIOTRAN-1.pdf</epo-file-name>
</ep-electronic-files>
```

The second sub-tab lets you enter remarks in the form of free text:

epoline® Online Filing - EP(1001E) - myref  
File Edit View Tools Windows Help

EP(1001E) - Draft - myref Last saved on 14-03-2006

Request Names States Priority Biological Material Documents Fee Payment **Annotations**

Additional documents Annotations for the EPO

A sample note  
N. Wright...

Author: N. Wright Created on: 14-03-2006

Subject: A sample note

Note: This is the text of the note for the EPO

0 0 0

```
<ep-notes-to-EPO page="Annotate" id="note1">  
  <author>N. Wright</author>  
  <subject>A sample note</subject>  
  <date>20060314</date>  
  <dtext>This is the text of the note for EPO.</dtext>  
</ep-notes-to-EPO>
```

## Form 1001e XML output

This is the complete XML file produced by OLF, as filled in by the previous examples:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE ep-request SYSTEM "ep-request.dtd">
<ep-request lang="en" dtd-version="1.0" produced-by="applicant"
ro="EP" date-produced="20060307 10:19:31">
  <file-reference-id>myref</file-reference-id>
  <request-petition>Grant of European patent, and examination of
the application under Article 94, are hereby
requested.</request-petition>
  <invention-title lang="en">Electronic device</invention-title>
  <invention-title lang="fr">Dispositif
&#233;lectronique</invention-title>
  <invention-title lang="de">Elektronische Schaltung</invention-
title>
  <parties>
    <applicants>
      <applicant sequence="2" designation="as-indicated" app-
type="applicant">
        <addressbook lang="en">
          <name name-type="legal">asd</name>
          <registered-number>101010.7</registered-number>
          <address>
            <address-2>asda</address-2>
            <street>msnfdmfn</street>
            <city>monaco</city>
            <state></state>
            <postcode>23420</postcode>
            <country>MC</country>
          </address>
          <phone>838192830128</phone>
          <fax></fax>
          <email></email>
        </addressbook>
        <nationality>
          <country/>
        </nationality>
        <residence>
          <country>MC</country>
        </residence>
      </applicant>
      <applicant sequence="1" designation="as-indicated" app-
type="applicant-inventor">
        <addressbook lang="en">
          <prefix>Ms</prefix>
          <last-name>Doe</last-name>
          <first-name>Jane</first-name>
          <orgname>Acme</orgname>
          <department>R+D</department>
          <registered-number>101011.5</registered-number>
          <address>
            <street>123, Rue des Inventions</street>
```

```
        <city>Monaco</city>
        <state></state>
        <postcode>12345</postcode>
        <country>MC</country>
    </address>
    <phone>003779312345</phone>
    <fax>003779312346</fax>
    <email>Jane.Doe@mymail.com</email>
</addressbook>
<nationality>
    <country>MC</country>
</nationality>
<residence>
    <country>MC</country>
</residence>
</applicant>
</applicants>
</parties>
<priority-claims>
    <ep-priority-claim sequence="1" kind="national"
translation="It is hereby declared that the application is a
complete translation of the previous application (Rule 38(5)
EPC)" ep-kind="patent">
        <country>MC</country>
        <doc-number>9876</doc-number>
        <date>20050814</date>
    </ep-priority-claim>
</priority-claims>
<check-list>
    <cl-request/>
    <cl-description page-count="5" ppf="1" ppl="5"/>
    <cl-claims page-count="2" ppf="6" ppl="7" number-of-
claims="3"/>
    <cl-abstract page-count="1" ppf="8" ppl="8"/>
    <cl-drawings page-count="2" fig-count="2"/>
    <cl-sequence-listing quantity="0" page-count="0"/>
    <cl-other-document>Specific Authorisation</cl-other-
document>
    <cl-other-document>Translation of priority documents</cl-
other-document>
</check-list>
<figure-to-publish>
    <fig-number></fig-number>
</figure-to-publish>
<ep-language-of-filing lang-code="epo">en</ep-language-of-
filing>
<ep-language-of-filing lang-code="translation">en</ep-
language-of-filing>
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            <country>EP</country>
        </region>
        <country>AT</country>
        <country>BE</country>
        <country>BG</country>
        <country>CH</country>
        <country>CY</country>
        <country>CZ</country>
        <country>DE</country>
```

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<country>SE</country>
<country>SI</country>
<country>SK</country>
<country>TR</country>
<country>LI</country>
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</ep-designated-states>
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<ep-request-for-exam-art94 lang="es"/>
<ep-bio-deposit id="biol" num="CBA" dnum="Ref.1.2005">
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    <address>
      <address-1>Italie - Collection interlaboratoires de
lign&#233;es cellulaires, Largo Rossana Benzi 10, 16132
G&#234;nes</address-1>
      <postcode/>
      <country/>
    </address>
  </depository>
  <bio-accno>CBA</bio-accno>
  <ep-bio-add bio-info="1"/>
  <ep-bio-add bio-info="2"/>
  <ep-bio-add bio-info="3" bio-description="Deposit by a
person other than the applicant">Mr. D. Positari,
Ave. Independence, Geneve, CH</ep-bio-add>
  <ep-bio-add bio-info="4" bio-description="Other">Sample
additional information</ep-bio-add>
</ep-bio-deposit>
<ep-electronic-files doc-type="1001">
  <applicant-file-name/>
  <epo-file-name>ep-request.pdf</epo-file-name>
</ep-electronic-files>
<ep-electronic-files doc-type="SPECEPO">
  <applicant-file-name>embedding.pdf</applicant-file-name>
  <epo-file-name>SPECEPO.pdf</epo-file-name>
</ep-electronic-files>
<ep-electronic-files doc-type="DRAW">
  <applicant-file-name>license.pdf</applicant-file-name>
  <epo-file-name>DRAW.pdf</epo-file-name>
</ep-electronic-files>
```

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<ep-electronic-files doc-type="SEQL">
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  <epo-file-name>SEQLPDF.pdf</epo-file-name>
</ep-electronic-files>
<ep-electronic-files doc-type="1003">
  <applicant-file-name>resources.pdf</applicant-file-name>
  <epo-file-name>SPECAUTH-1.pdf</epo-file-name>
</ep-electronic-files>
<ep-electronic-files doc-type="PRIOTRAN">
  <applicant-file-name>news.pdf</applicant-file-name>
  <epo-file-name>PRIOTRAN-1.pdf</epo-file-name>
</ep-electronic-files>
<ep-financial-data curr="EUR">
  <mode-of-payment accno="28123123" mode-type="auto"
currency="EUR">Acme Inventions</mode-of-payment>
  <reimbursement accno="28123123">Acme
Inventions</reimbursement>
  <sr-refund>9989978</sr-refund>
  <addcopies>1</addcopies>
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        <fee-schedule>90</fee-schedule>
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      </fee>
      <fee index="5" topay="yes">
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        <fee-schedule>525</fee-schedule>
        <fee-sub-amount>75</fee-sub-amount>
      </fee>
      <fee index="6" topay="yes">
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        <fee-factor>0,8</fee-factor>
        <fee-schedule>1024</fee-schedule>
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      </fee>
      <fee index="15" topay="yes">
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        <fee-schedule>0</fee-schedule>
        <fee-sub-amount>40</fee-sub-amount>
      </fee>
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        <fee-sub-amount>30</fee-sub-amount>
      </fee>
      <fee index="32" topay="yes">
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        <fee-factor>1</fee-factor>
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  <fee-sub-amount>380</fee-sub-amount>
</fee>
<fee index="34" topay="yes">
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  <fee-factor>1</fee-factor>
  <fee-schedule>405</fee-schedule>
  <fee-sub-amount>405</fee-sub-amount>
</fee>
<fee index="35" topay="yes">
  <type-of-fee>standard</type-of-fee>
  <fee-factor>1</fee-factor>
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  <fee-sub-amount>430</fee-sub-amount>
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</fee>
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  <fee-factor>1</fee-factor>
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  <fee-sub-amount>740</fee-sub-amount>
</fee>
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  <fee-factor>1</fee-factor>
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  <fee-sub-amount>765</fee-sub-amount>
</fee>
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  <fee-factor>1</fee-factor>
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  <fee-sub-amount>970</fee-sub-amount>
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<fee index="40" topay="no">
  <type-of-fee>standard</type-of-fee>
  <fee-factor>1</fee-factor>
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  <fee-sub-amount>1020</fee-sub-amount>
</fee>
<fee index="41" topay="no">
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  <fee-sub-amount>1020</fee-sub-amount>
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<fee index="44" topay="no">
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  <fee-sub-amount>1020</fee-sub-amount>
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</fee>
<fee index="403" topay="yes">
  <type-of-fee>standard</type-of-fee>
```

```
<fee-factor>1</fee-factor>
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<fee-sub-amount>102</fee-sub-amount>
</fee>
<fee index="404" topay="yes">
  <type-of-fee>standard</type-of-fee>
  <fee-factor>1</fee-factor>
  <fee-schedule>102</fee-schedule>
  <fee-sub-amount>102</fee-sub-amount>
</fee>
<fee index="406" topay="yes">
  <type-of-fee>standard</type-of-fee>
  <fee-factor>1</fee-factor>
  <fee-schedule>102</fee-schedule>
  <fee-sub-amount>102</fee-sub-amount>
</fee>
<fee index="407" topay="yes">
  <type-of-fee>standard</type-of-fee>
  <fee-factor>1</fee-factor>
  <fee-schedule>102</fee-schedule>
  <fee-sub-amount>102</fee-sub-amount>
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<fee index="408" topay="yes">
  <type-of-fee>standard</type-of-fee>
  <fee-factor>1</fee-factor>
  <fee-schedule>102</fee-schedule>
  <fee-sub-amount>102</fee-sub-amount>
</fee>
<fee index="409" topay="yes">
  <type-of-fee>standard</type-of-fee>
  <fee-factor>1</fee-factor>
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  <fee-sub-amount>102</fee-sub-amount>
</fee>
</standard-fee>
<fee-total-amount>7346</fee-total-amount>
</fees>
</ep-financial-data>
<ep-notes-to-EPO page="Annotate" id="note1">
  <author>N. Wright</author>
  <subject>A sample note</subject>
  <date>20060306</date>
  <dtext>This is the text of the note for the EPO</dtext>
</ep-notes-to-EPO>
</ep-office-specific-data>
</ep-request>
```



## CHAPTER 4

# 1200e (euro-pct)

## Introduction

Form 1200e is required to demand an International Preliminary examination, as indicated in PCT. Art. 31, and PCT Rule 53.

Similar to EPO form 1001e, the *epoline*® Online Filing (OLF) client (Version 2.0) provides a Graphic User Interface for filling in all the data fields necessary for this form.

The choice between one and the other is made at the first stage of the application, as shown in the previous section.

In this section, we follow the same scheme to describe the output of Form 1200e.

## GUI screenshots and XML tagging

### Request GUI

As in form 1001, form 1200 has an initial window in which the examination is requested and priority data about documents is entered.

The above fields will create the following XML sections:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE ep-euro-pct SYSTEM "ep-euro-pct-v1-01.dtd">
<ep-euro-pct lang="en" dtd-version="1.0" ro="EP" produced-
by="applicant" date-produced="20060307 11:37:42">
  <file-reference-id>myref</file-reference-id>
  <request-petition>Entry into the European phase (EPO as
designated or elected Office) is hereby requested.</request-
petition>
```

With respect to the priority claim:

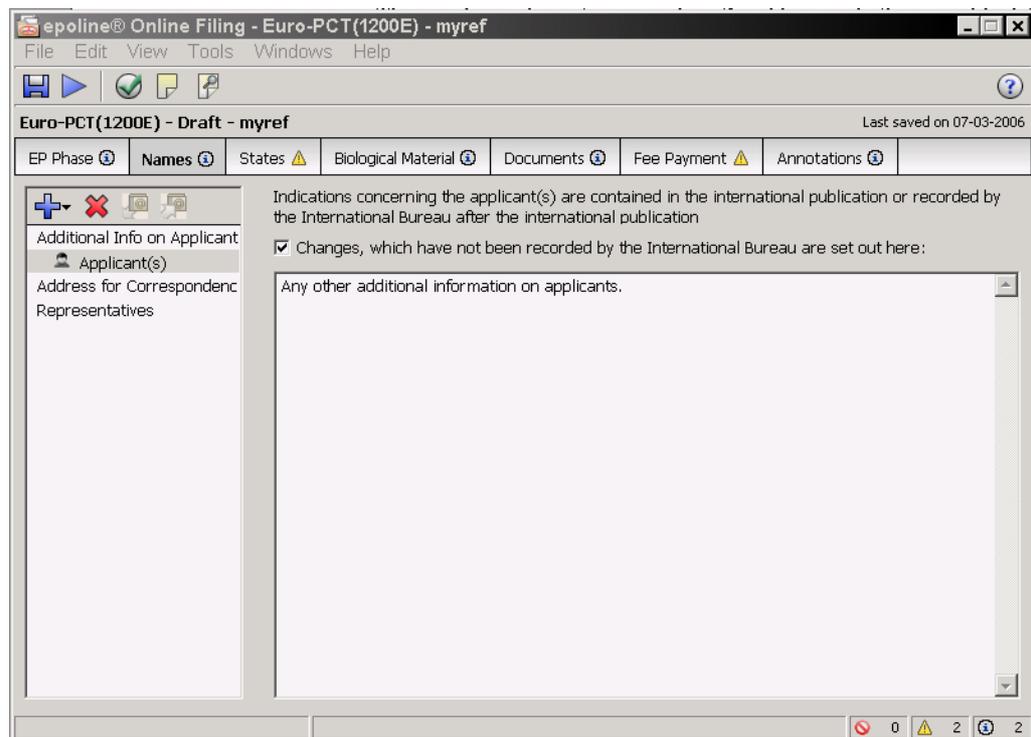
```
<priority-claims>
  <ep-priority-claim sequence="1" kind="international">
    <country>IB</country>
    <doc-number>PCT/US2003/05679</doc-number>
    <date>20030225</date>
  </ep-priority-claim>
  <ep-priority-claim sequence="2" kind="regional">
    <country>EP</country>
    <doc-number>EP20041234.4</doc-number>
    <date></date>
  </ep-priority-claim>
  <ep-priority-claim sequence="3" kind="international">
    <country>IB</country>
    <doc-number>WO03075629 </doc-number>
    <date></date>
  </ep-priority-claim>
</priority-claims>
```

and concerning the languages used:

```
<ep-language-of-filing>en</ep-language-of-filing>
<ep-office-specific-data office="EP" lang="en">
  <ep-request-for-exam-art94 lang="es"/>
```

## Names GUI

Since in this case information about the applicant(s) is already known to the receiving office, there is no need to enter anything here, except if there are modifications. In that case, this window allows you to enter data in free format:



As in form 1001, this window produces the following XML set of data:

```
<parties>
  <applicants>
    <applicant sequence="1" app-type="applicant"
designation="all">
      <addressbook lang="en">
        <text>Any other additional information on
applicants.</text>
      </addressbook>
    </applicant>
  </applicants>
</parties>
```

Selecting the option to add Address for Correspondence opens the following:

The screenshot shows the epoline® Online Filing interface. The main form is titled 'Euro-PCT(1200E) - Draft - myref' and contains the following fields:

- Company: Acme Inventions
- Department: R+D
- Country: MC Monaco
- Address: 123, Rue des Inventions
- Postal code: 12345
- City: Monaco
- Region: (empty dropdown)

The sidebar on the left shows 'Additional Info on Applicant' and 'Address for Correspondence' with a list of entries for 'Acme Inventions'.

```

<correspondence-address>
  <addressbook lang="en">
    <name name-type="legal" />
    <registered-number/>
    <address>
      <address-1>Acme Inventions</address-1>
      <address-2>R+D</address-2>
      <street>123, Rue des Inventions</street>
      <city>Monaco</city>
      <state></state>
      <postcode>12345</postcode>
      <country>MC</country>
    </address>
  </addressbook>
</correspondence-address>

```

## States GUI

Similarly as in form 1001, the States tab window has these options:

epoline® Online Filing - Euro-PCT(1200E) - myref

File Edit View Tools Windows Help

Euro-PCT(1200E) - Draft - myref Last saved on 14-03-2006

EP Phase Names States Biological Material Documents Fee Payment Annotations

Designation Extension

It is currently intended to pay seven times the amount of the designation fee. The designation fees for all the EPC contracting states designated in the international application are thereby deemed to have been paid (Art. 2 No. 3 RFees).

It is currently intended to pay fewer than seven designation fees for the following EPC contracting states designated in the international application:

<input checked="" type="checkbox"/> AT Austria	<input checked="" type="checkbox"/> DK Denmark	<input checked="" type="checkbox"/> GR Greece	<input checked="" type="checkbox"/> NL Netherlands
<input checked="" type="checkbox"/> BE Belgium	<input checked="" type="checkbox"/> EE Estonia	<input checked="" type="checkbox"/> HU Hungary	<input checked="" type="checkbox"/> PT Portugal
<input checked="" type="checkbox"/> BG Bulgaria	<input checked="" type="checkbox"/> ES Spain	<input checked="" type="checkbox"/> IE Ireland	<input checked="" type="checkbox"/> SE Sweden
<input checked="" type="checkbox"/> CH/LI Switzerland/Liechtenstein	<input checked="" type="checkbox"/> FI Finland	<input checked="" type="checkbox"/> IT Italy	<input checked="" type="checkbox"/> SI Slovenia
<input checked="" type="checkbox"/> CY Cyprus	<input checked="" type="checkbox"/> FR France	<input checked="" type="checkbox"/> LU Luxembourg	<input checked="" type="checkbox"/> SK Slovakia
<input checked="" type="checkbox"/> CZ Czech Republic	<input checked="" type="checkbox"/> GB United Kingdom	<input checked="" type="checkbox"/> MC Monaco	<input checked="" type="checkbox"/> TR Turkey
<input checked="" type="checkbox"/> DE Germany			

It is requested that no communication under Rules 85a(1) or 69(1) need be notified in respect of the contracting states not indicated. If an automatic debit order has been issued, the EPO is authorised, on expiry of the basic period under Article 79(2), to debit seven times the amount of the designation fee. If less than seven states are indicated, the EPO shall debit designation fees only for those states, unless it is instructed to do otherwise before expiry of the basic period.

0 0 2

```
<ep-designated-states>
  <region>
    <country>EP</country>
  </region>
  <country>AT</country>
  <country>BE</country>
  <country>CH</country>
  <country>CY</country>
  <country>DE</country>
  <country>DK</country>
  <country>ES</country>
  <country>FI</country>
  <country>FR</country>
  <country>GB</country>
  <country>GR</country>
  <country>IE</country>
  <country>IT</country>
  <country>LU</country>
  <country>MC</country>
  <country>NL</country>
  <country>PT</country>
  <country>SE</country>
  <country>TR</country>
  <country>BG</country>
  <country>CZ</country>
  <country>EE</country>
  <country>HU</country>
  <country>SI</country>
  <country>SK</country>
  <country>LI</country>
  <extension-states/>
</ep-designated-states>
```

Selecting fewer than 7 states would display the following:

epoline® Online Filing - Euro-PCT(1200E) - myref

File Edit View Tools Windows Help

Euro-PCT(1200E) - Draft - myref Last saved on 14-03-2006

EP Phase Names States Biological Material Documents Fee Payment Annotations

Designation Extension

It is currently intended to pay seven times the amount of the designation fee. The designation fees for all the EPC contracting states designated in the international application are thereby deemed to have been paid (Art. 2 No. 3 RFees).

It is currently intended to pay fewer than seven designation fees for the following EPC contracting states designated in the international application:

4 selected

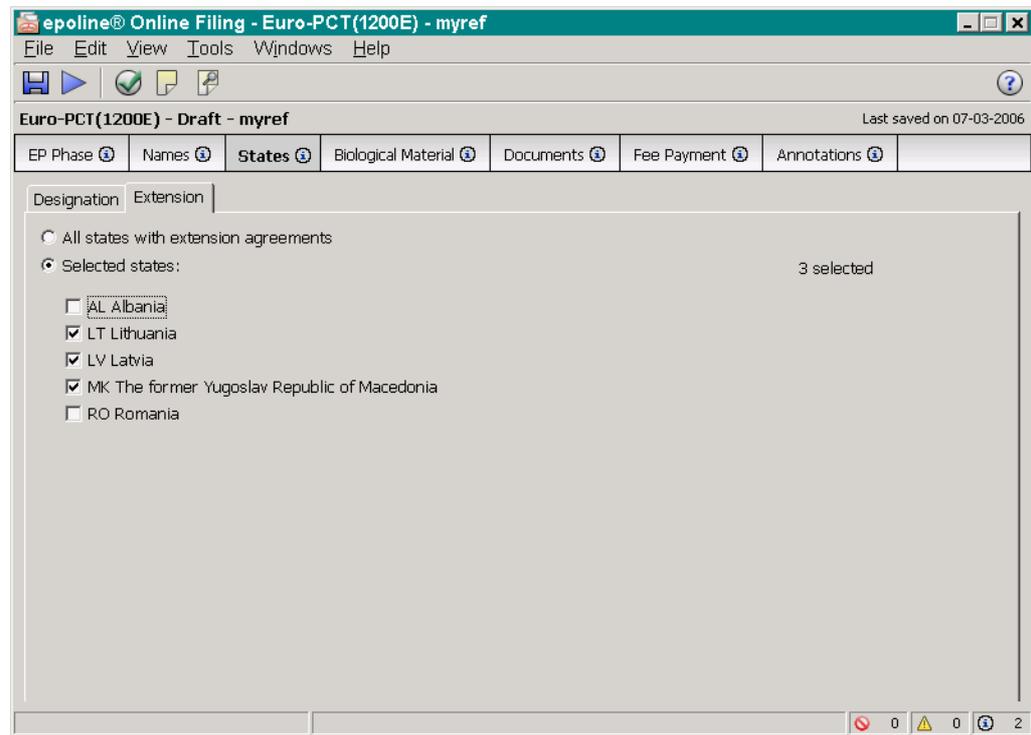
<input type="checkbox"/> AT Austria	<input type="checkbox"/> DK Denmark	<input type="checkbox"/> GR Greece	<input type="checkbox"/> NL Netherlands
<input type="checkbox"/> BE Belgium	<input type="checkbox"/> EE Estonia	<input type="checkbox"/> HU Hungary	<input type="checkbox"/> PT Portugal
<input type="checkbox"/> BG Bulgaria	<input checked="" type="checkbox"/> ES Spain	<input type="checkbox"/> IE Ireland	<input type="checkbox"/> SE Sweden
<input type="checkbox"/> CH/LI Switzerland/Liechtenstein	<input type="checkbox"/> FI Finland	<input type="checkbox"/> IT Italy	<input type="checkbox"/> SI Slovenia
<input type="checkbox"/> CY Cyprus	<input type="checkbox"/> FR France	<input type="checkbox"/> LU Luxembourg	<input type="checkbox"/> SK Slovakia
<input type="checkbox"/> CZ Czech Republic	<input checked="" type="checkbox"/> GB United Kingdom	<input checked="" type="checkbox"/> MC Monaco	<input type="checkbox"/> TR Turkey
<input checked="" type="checkbox"/> DE Germany			

It is requested that no communication under Rules 85a(1) or 69(1) need be notified in respect of the contracting states not indicated. If an automatic debit order has been issued, the EPO is authorised, on expiry of the basic period under Article 79(2), to debit seven times the amount of the designation fee. If less than seven states are indicated, the EPO shall debit designation fees only for those states, unless it is instructed to do otherwise before expiry of the basic period.

0 0 2

```
<ep-designated-states>
  <country>DE</country>
  <country>ES</country>
  <country>GB</country>
  <country>MC</country>
</ep-designated-states>
```

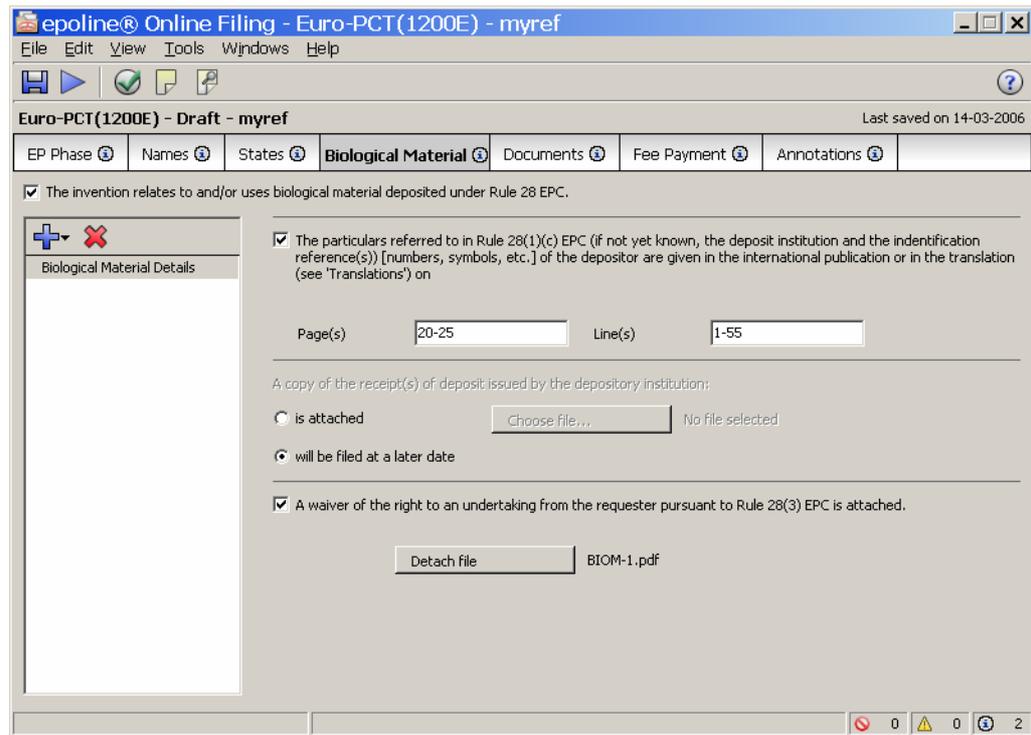
The option “Extension states” lets you select other countries with extension agreements with the EPO:



```
<extension-states>
  <country>LT</country>
  <country>LV</country>
  <country>MK</country>
</extension-states>
```

## Biological material GUI

This window looks as follows:



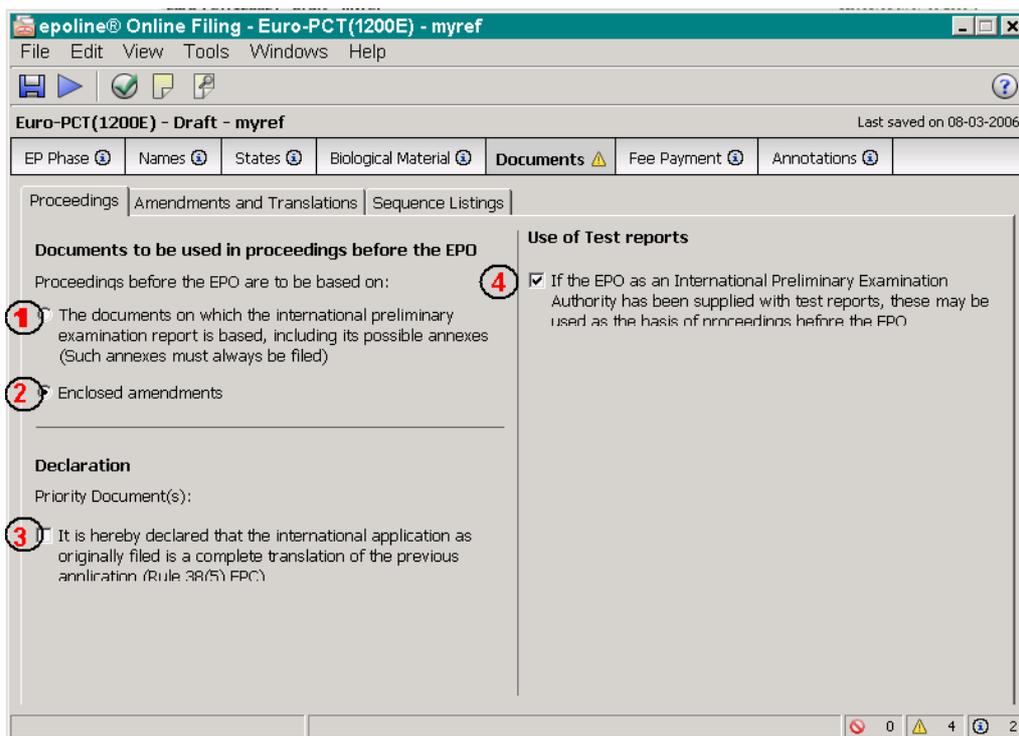
```

<ep-biological-material id="bio0">
  <ep-rule28/>
  <ep-bio-add bio-info="0;0;0;1"/>
</ep-biological-material>
<ep-biological-material id="bio01">
  <ep-rule28/>
  <depository/>
  <bio-location>
    <bio-page>20-25</bio-page>
    <bio-line>1-55</bio-line>
  </bio-location>
  <bio-receipt attached="no"/>
  <dtext/>
</ep-biological-material>

```

## Documents GUI

The following window does not have a correspondent in Form 1001e.



The selections made in this window are reflected in the following sections of the XML code:

```
<tr-originally-filed>1</tr-originally-filed>
```

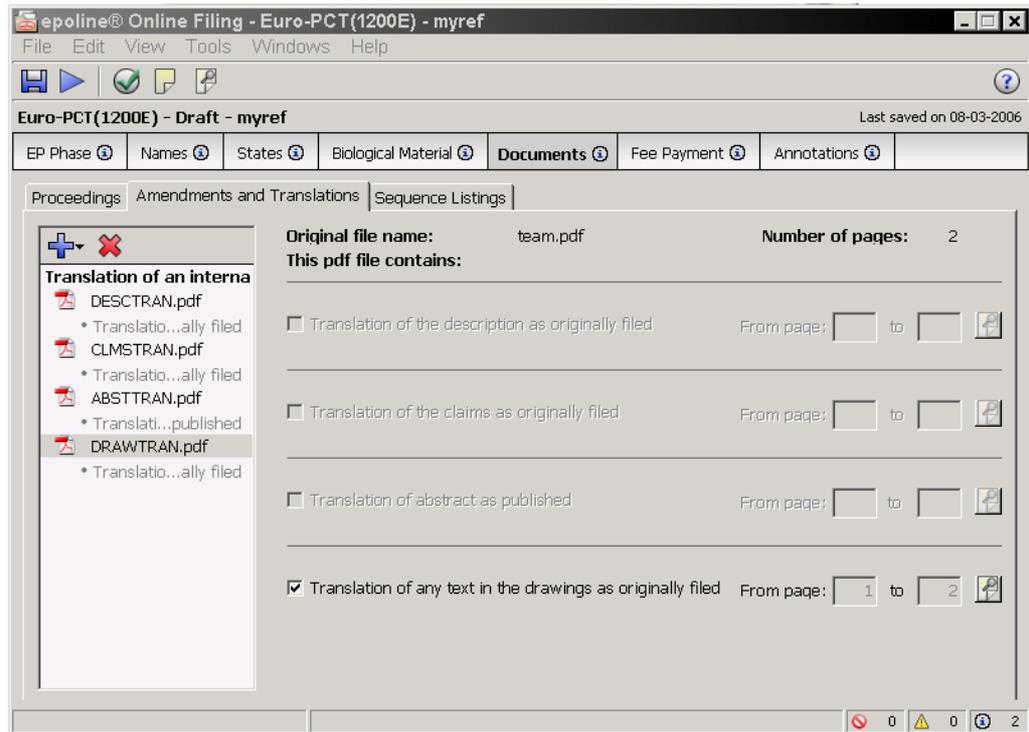
where the value will be "1" if check box • is selected, or "0" if check box • is selected instead, and:

```
<cl-other-document page-count="" other-type="0;0;1"/>
```

where the last two digits of the value of the attribute `other-type` will be each "1" or "0" reflecting whether options • and • are checked or not, respectively.

## Amendments and Translations GUI

This window does not exist in the GUI of form 1001e.



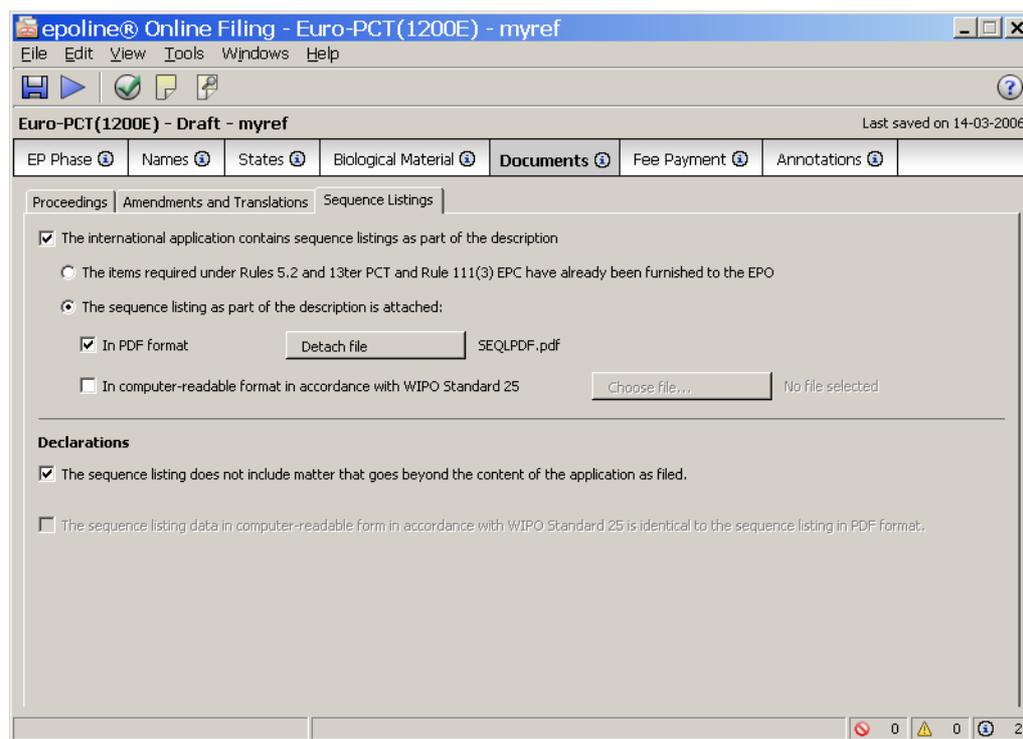
```

<ep-electronic-files doc-type="DESC">
  <applicant-file-name>DRAWTRAN.pdf</applicant-file-name>
  <epo-file-name>DESCTRAN.pdf</epo-file-name>
</ep-electronic-files>
<ep-electronic-files doc-type="CLMS">
  <applicant-file-name>license.pdf</applicant-file-name>
  <epo-file-name>CLMSTRAN.pdf</epo-file-name>
</ep-electronic-files>
<ep-electronic-files doc-type="ABST">
  <applicant-file-name>configuration.pdf</applicant-file-
name>
  <epo-file-name>ABSTTRAN.pdf</epo-file-name>
</ep-electronic-files>
<ep-electronic-files doc-type="DRAW">
  <applicant-file-name>team.pdf</applicant-file-name>
  <epo-file-name>DRAWTRAN.pdf</epo-file-name>
</ep-electronic-files>

<translation-info>
  <tr-inter-appl>1</tr-inter-appl>
  <tr-prio-appl>0</tr-prio-appl>
  <tr-originally-filed>1</tr-originally-filed>
  <tr-amended-claims>0</tr-amended-claims>
  <tr-annexes>0</tr-annexes>
</translation-info>

```

## Sequence Listings GUI



```
<cl-sequence-listing quantity="'0'" page-count="2"/>
```

and

```
<ep-electronic-files doc-type="SEQL">
  <applicant-file-name>seqlisting.pdf</applicant-file-name>
  <epo-file-name>SEQLPDF.pdf</epo-file-name>
</ep-electronic-files>
```

## Fee Payment GUI

The first tab, Fee Selection, shows all the fees to be paid. These are filled in automatically.

The screenshot shows the 'epoline® Online Filing - Euro-PCT(1200E) - myref' application window. The main window title is 'Euro-PCT(1200E) - Draft - myref' and it was last saved on 14-03-2006. The 'Fee Payment' tab is selected, and the 'Fee selection' sub-tab is active. The 'Show:' dropdown is set to 'Initial fees'. The table below lists the fees to be paid:

	Fee Code	Description	Amount EUR	Reduction	Quantity	Amount to Pay EUR
<input type="checkbox"/>	002	Fee for a European search	690,00	none	0	0,00
<input checked="" type="checkbox"/>	005	Designation fee for each state designated (max. 7x)	75,00	----	4	300,00
<input checked="" type="checkbox"/>	006	Examination fee	1 430,00	20%	1	1 144,00
<input checked="" type="checkbox"/>	015	Claims fee for 11th and each subsequent claim	40,00	----	0	0,00
<input checked="" type="checkbox"/>	020	National basic fee - online	90,00	----	1	90,00
<input checked="" type="checkbox"/>	033	Renewal fee for the 3rd year	380,00	----	1	380,00
<input type="checkbox"/>	055	Add. copy of docs cited in search report	20,00	----	0	0,00
<input type="checkbox"/>	401	Extension fee for Slovenia (Memberstate as from 1.12.2002)	102,00	----	1	0,00
<input type="checkbox"/>	402	Extension fee for Lithuania (Memberstate as from 1.12.2004)	102,00	----	1	0,00
<input type="checkbox"/>	403	Extension fee for Latvia (EPC contracting state as from 1.7.2005)	102,00	----	1	0,00

Fee schedule for EUR valid as of: **Total: (7 Fees) € 2 118,00**

The second tab, Payment Details, is for entering information such as bank account number, etc...

epoline® Online Filing - Euro-PCT(1200E) - myref

File Edit View Tools Windows Help

Euro-PCT(1200E) - Draft - myref Last saved on 14-03-2006

EP Phase Names States Biological Material Documents **Fee Payment** Annotations

Fee selection Payment Details

Mode of Payment: Bank transfer Currency: EUR

The fees and costs indicated on the fees page will be paid within a month after filing by transfer to the following bank account held by the office:

Bank: Banco Bilbao Vizcaya Argentaria , Madrid

Bank account: 0182-5906-88-029-0348002

Reimbursement, if any, to be made to deposit account with the EPO: 28123456

Account holder: Acme Inventions

One or more sets of the copies of documents cited in the supplementary European search report are hereby requested: 2

```

<ep-financial-data curr="EUR">
  <mode-of-payment accno="0182-5906-88-029-0348002" mode-
type="bank" currency="EUR">ES</mode-of-payment>
  <reimbursement accno="28123456">Acme
Inventions</reimbursement>
  <addcopies>2</addcopies>
  <fees date="18991230">
    <standard-fee>
      <fee index="2" topay="no">
        <type-of-fee>standard</type-of-fee>
        <fee-factor>0</fee-factor>
        <fee-schedule>0</fee-schedule>
        <fee-sub-amount>690</fee-sub-amount>
      </fee>
      <fee index="5" topay="yes">
        <type-of-fee>standard</type-of-fee>
        <fee-factor>4</fee-factor>
        <fee-schedule>300</fee-schedule>
        <fee-sub-amount>75</fee-sub-amount>
      </fee>
      <fee index="6" topay="yes">
        <type-of-fee>standard</type-of-fee>
        <fee-factor>0,8</fee-factor>
        <fee-schedule>1144</fee-schedule>
        <fee-sub-amount>1430</fee-sub-amount>
      </fee>
      <fee index="15" topay="yes">
        <type-of-fee>standard</type-of-fee>
        <fee-factor>0</fee-factor>
        <fee-schedule>0</fee-schedule>
        <fee-sub-amount>40</fee-sub-amount>
    </standard-fee>
  </fees>
</ep-financial-data>

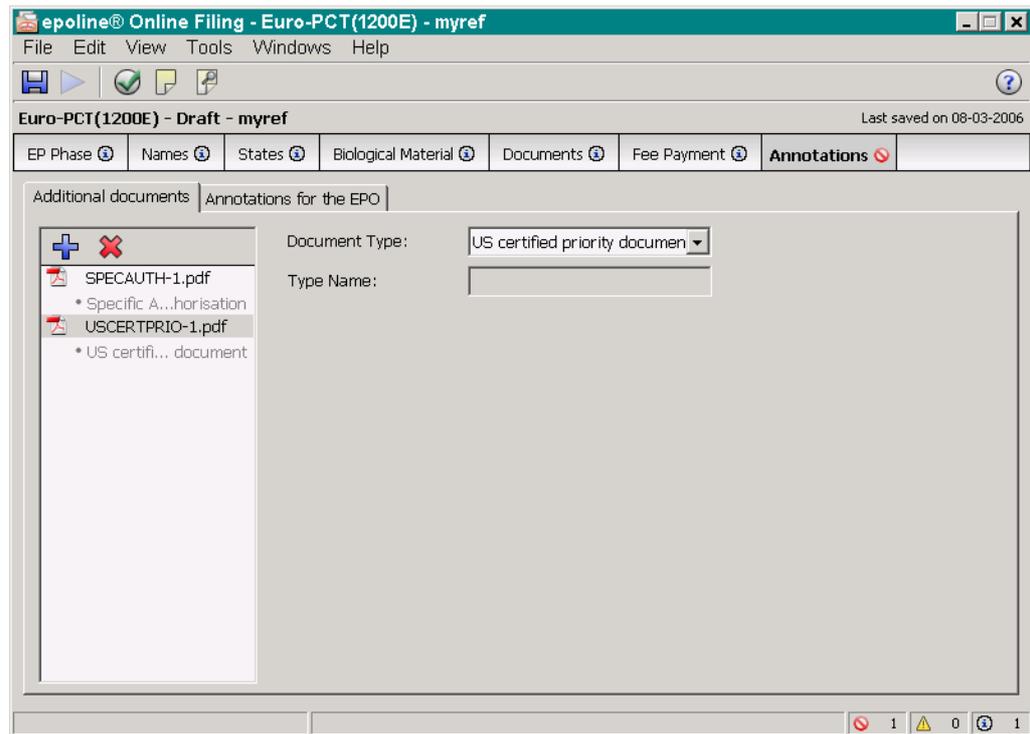
```

```
</fee>
<fee index="20" topay="yes">
  <type-of-fee>standard</type-of-fee>
  <fee-factor>1</fee-factor>
  <fee-schedule>90</fee-schedule>
  <fee-sub-amount>90</fee-sub-amount>
</fee>
<fee index="33" topay="yes">
  <type-of-fee>standard</type-of-fee>
  <fee-factor>1</fee-factor>
  <fee-schedule>380</fee-schedule>
  <fee-sub-amount>380</fee-sub-amount>
</fee>
<fee index="53" topay="no">
  <type-of-fee>standard</type-of-fee>
  <fee-factor>1</fee-factor>
  <fee-schedule>0</fee-schedule>
  <fee-sub-amount>715</fee-sub-amount>
</fee>
<fee index="55" topay="yes">
  <type-of-fee>standard</type-of-fee>
  <fee-factor>2</fee-factor>
  <fee-schedule>40</fee-schedule>
  <fee-sub-amount>20</fee-sub-amount>
</fee>
<fee index="61" topay="no">
  <type-of-fee>standard</type-of-fee>
  <fee-factor>1</fee-factor>
  <fee-schedule>0</fee-schedule>
  <fee-sub-amount>150</fee-sub-amount>
</fee>
<fee index="65" topay="no">
  <type-of-fee>standard</type-of-fee>
  <fee-factor>1</fee-factor>
  <fee-schedule>0</fee-schedule>
  <fee-sub-amount>1750</fee-sub-amount>
</fee>
<fee index="401" topay="no">
  <type-of-fee>standard</type-of-fee>
  <fee-factor>1</fee-factor>
  <fee-schedule>0</fee-schedule>
  <fee-sub-amount>102</fee-sub-amount>
</fee>
<fee index="402" topay="no">
  <type-of-fee>standard</type-of-fee>
  <fee-factor>1</fee-factor>
  <fee-schedule>0</fee-schedule>
  <fee-sub-amount>102</fee-sub-amount>
</fee>
<fee index="403" topay="no">
  <type-of-fee>standard</type-of-fee>
  <fee-factor>1</fee-factor>
  <fee-schedule>0</fee-schedule>
  <fee-sub-amount>102</fee-sub-amount>
</fee>
<fee index="404" topay="no">
  <type-of-fee>standard</type-of-fee>
  <fee-factor>1</fee-factor>
  <fee-schedule>0</fee-schedule>
```

```
        <fee-sub-amount>102</fee-sub-amount>
    </fee>
    <fee index="405" topay="yes">
        <type-of-fee>standard</type-of-fee>
        <fee-factor>1</fee-factor>
        <fee-schedule>102</fee-schedule>
        <fee-sub-amount>102</fee-sub-amount>
    </fee>
    <fee index="406" topay="no">
        <type-of-fee>standard</type-of-fee>
        <fee-factor>1</fee-factor>
        <fee-schedule>0</fee-schedule>
        <fee-sub-amount>102</fee-sub-amount>
    </fee>
    <fee index="407" topay="yes">
        <type-of-fee>standard</type-of-fee>
        <fee-factor>1</fee-factor>
        <fee-schedule>102</fee-schedule>
        <fee-sub-amount>102</fee-sub-amount>
    </fee>
    <fee index="408" topay="no">
        <type-of-fee>standard</type-of-fee>
        <fee-factor>1</fee-factor>
        <fee-schedule>0</fee-schedule>
        <fee-sub-amount>102</fee-sub-amount>
    </fee>
    <fee index="409" topay="no">
        <type-of-fee>standard</type-of-fee>
        <fee-factor>1</fee-factor>
        <fee-schedule>0</fee-schedule>
        <fee-sub-amount>102</fee-sub-amount>
    </fee>
</standard-fee>
<fee-calc-info>
    <search-region region="EP"/>
    <IPEA ipea="EP"/>
    <IPER iper-type="rational"/>
</fee-calc-info>
<fee-total-amount>2158</fee-total-amount>
</fees>
</ep-financial-data>
```

## Annotations GUI

This window is similar to the one of form 1001:



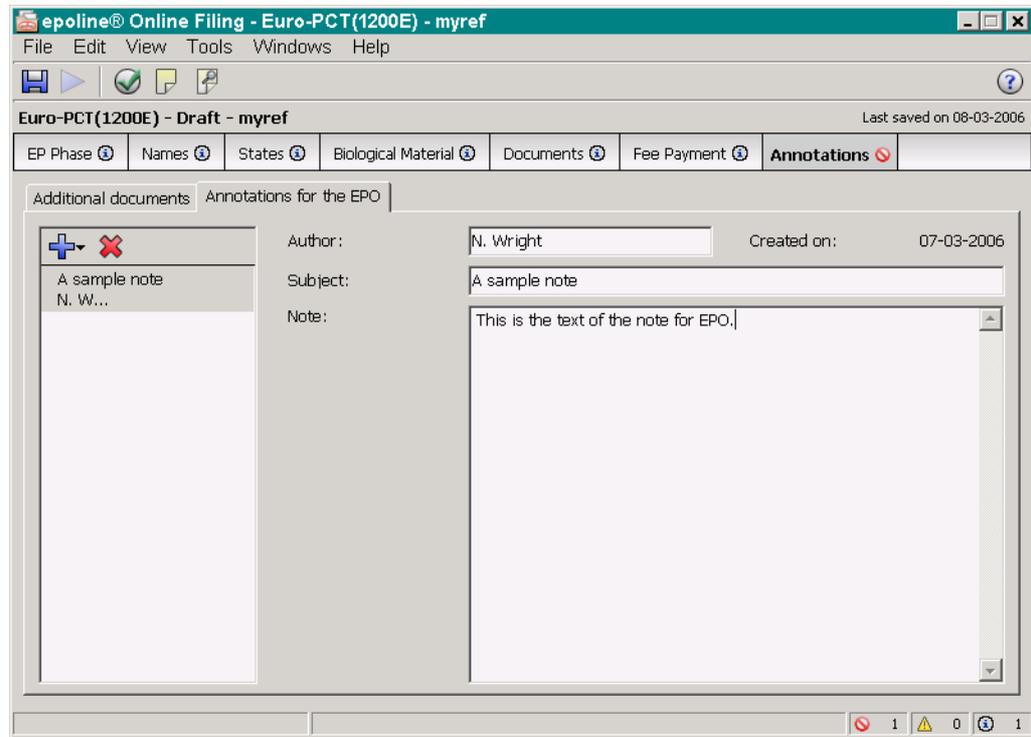
Some XML code is added under the tag `<check-list>`:

```
<cl-other-document>Specific Authorisation</cl-other-document>
<cl-other-document>US priority document in electronic format</cl-other-document>
```

Other code is added under `<ep-office-specific-data>`:

```
<ep-electronic-files doc-type="1003">
  <applicant-file-name>compliance.pdf</applicant-file-name>
  <epo-file-name>SPECAUTH-1.pdf</epo-file-name>
</ep-electronic-files>
<ep-electronic-files doc-type="USCERTPRIO">
  <applicant-file-name>maillist.pdf</applicant-file-name>
  <epo-file-name>USCERTPRIO-1.pdf</epo-file-name>
</ep-electronic-files>
```

The window Annotations for EPO is also similar to form 1001:



```
<ep-notes-to-EPO page="Annotate" id="note1">
  <author>N. Wright</author>
  <subject>A sample note</subject>
  <date>20060307</date>
  <dtext>This is the text of the note for EPO.</dtext>
</ep-notes-to-EPO>
```

## Form 1200e XML Output

Here is the complete XML output of the Form 1200e GUI, as filled in by the previous examples:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE ep-euro-pct SYSTEM "ep-euro-pct-v1-01.dtd">
<ep-euro-pct lang="en" dtd-version="1.0" ro="EP" produced-
by="applicant" date-produced="20060308 15:23:26">
  <file-reference-id>myref</file-reference-id>
  <request-petition>Entry into the European phase (EPO as
designated or elected Office) is hereby requested.</request-
petition>
  <parties>
    <applicants>
      <applicant sequence="1" app-type="applicant"
designation="all">
        <addressbook lang="en">
          <text>Any other additional information on
applicants.</text>
        </addressbook>
      </applicant>
    </applicants>
    <correspondence-address>
      <addressbook lang="en">
        <name name-type="legal"/>
        <registered-number/>
        <address>
          <address-1>Acme Inventions</address-1>
          <address-2>R+D</address-2>
          <street>123, Rue des Inventions</street>
          <city>Monaco</city>
          <state></state>
          <postcode>12345</postcode>
          <country>MC</country>
        </address>
      </addressbook>
    </correspondence-address>
  </parties>
  <priority-claims>
    <ep-priority-claim sequence="1" kind="international">
      <country>IB</country>
      <doc-number>PCT/US2003/05679</doc-number>
      <date>20030225</date>
    </ep-priority-claim>
    <ep-priority-claim sequence="2" kind="regional">
      <country>EP</country>
      <doc-number>EP20041234.4</doc-number>
      <date></date>
    </ep-priority-claim>
    <ep-priority-claim sequence="3" kind="international">
      <country>IB</country>
      <doc-number>WO03075629 </doc-number>
      <date></date>
    </ep-priority-claim>
  </priority-claims>
</ep-euro-pct>
```

```
</priority-claims>
<search-authority>
  <isa>
    <country>EP</country>
  </isa>
</search-authority>
<check-list>
  <cl-request/>
  <cl-claims page-count="" number-of-claims="7" ppf=""
ppl=""/>
  <cl-sequence-listing quantity="'0'" page-count="2"/>
  <cl-other-document>Specific Authorisation</cl-other-
document>
  <cl-other-document page-count="" other-type="0;1;0"/>
</check-list>
<ep-language-of-filing>en</ep-language-of-filing>
<ep-office-specific-data office="EP" lang="en">
  <ep-request-for-exam-art94 lang="es"/>
  <ep-designated-states>
    <country>DE</country>
    <country>ES</country>
    <country>GB</country>
    <country>MC</country>
    <extension-states>
      <country>MK</country>
      <country>LT</country>
      <country>LV</country>
    </extension-states>
  </ep-designated-states>
  <ep-biological-material id="bio0">
    <ep-rule28/>
    <ep-bio-add bio-info="0;0;1;0"/>
  </ep-biological-material>
  <ep-biological-material id="bio01">
    <ep-rule28/>
    <depository/>
    <bio-location>
      <bio-page>20-25</bio-page>
      <bio-line>1-55</bio-line>
    </bio-location>
    <bio-receipt attached="no"/>
    <dtext/>
  </ep-biological-material>
  <translation-info>
    <tr-inter-appl>1</tr-inter-appl>
    <tr-prio-appl>0</tr-prio-appl>
    <tr-originally-filed>1</tr-originally-filed>
    <tr-amended-claims>0</tr-amended-claims>
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  <date>20060307</date>
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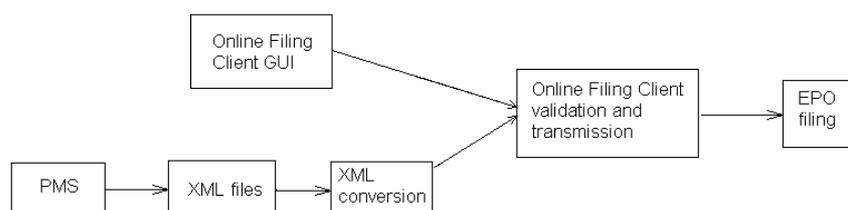


## CHAPTER 5

## Importing XML from a PMS

The Online Filing client can be used not only with data entered using the application GUI, but also with XML data created with a Patent Management System, independent of the Online Filing client.

Many PMS applications produce output files in XML format. It is possible for users to file applications authored with such PMS's, by converting these XML files into the XML format expected by *epoline*®, and then using the Online Filing system import function to validate and submit the data. The import function can be invoked either from the GUI or from the command line (see *epoline*® Online Filing, User Guide Version 2), which allows to use it also programmatically from another application.



The import function of the Online Filing client application reads data produced by another PMS and populates the required fields with them. To do this from the GUI, select the File menu:

Fee C...	Description	Amount EUR	Reduction	Quantity	Amount to Pay EUR
<input checked="" type="checkbox"/> 005	Designation fee for each state designated (max. 7x)	75,00	----	0	0,00
<input checked="" type="checkbox"/> 006e	Examination fee (Euro-PCT without supplementary European search report)	1 430,00	20%	1	1 144,00
<input checked="" type="checkbox"/> 015	Claims fee for 11th and each subsequent claim	40,00	----	0	0,00
<input checked="" type="checkbox"/> 020	National basic fee - online	90,00	----	1	90,00
<input checked="" type="checkbox"/> 033	Renewal fee for the 3rd year	380,00	----	1	380,00
<input type="checkbox"/> 055	Add. copy of docs cited in search report	20,00	----	0	0,00
<input type="checkbox"/> 401	Extension fee for Slovenia (Memberstate as from 1.12.2002)	102,00	----	1	0,00
<input type="checkbox"/> 402	Extension fee for Lithuania (Memberstate as from 1.12.2004)	102,00	----	1	0,00
<input type="checkbox"/> 403	Extension fee for Latvia (EPC contracting state as from 1.7.2005)	102,00	----	1	0,00

Fee schedule for EUR valid as of: 01.07.2005 **Total: (5 Fees) € 1 614,00**

Logged in as Martin Kreidler

As the above figure shows, this gives, among other, the following possibilities:

- § Import
- § Import XML from folder

The option “Import” is used when all required files (XML request, and application files, see below) are zipped in a .zip archive. Any PMS system should create the zip archive with the required files.

If the files are all stored separately in a common folder, use option “Import XML from folder” instead.

In both cases, a file selection dialog will open, where the required file or folder are selected.

From the command line, these functions can be invoked as follows:

- for a zip archive:

```
e3clcm.exe -xml mode=production username=Administrator password=
filename=c:\fr.zip
```

- for a folder containing the files:

```
e3clcm.exe -xml mode=production username=Administrator
password=11 foldername=c:\fr
```

There are some required XML files and some required PDF files.

The expected XML files are the following:

File Name	Description
pkgheader.xml See Annex III, pkgheader.dtd	Indicates what type of data is contained in the package, e.g. Form 1001, Form 1200, ....
package-data.xml See Annex IV. package-data.dtd	Indicates which other XML files are contained in the package. Default names: application-body.xml ep-request.xml (if Form 1001e) ep-euro-pct.xml (if Form 1200)
application-body.xml (as indicated in package-data.xml) See Annex V, application-body.dtd	Indicates the file name of the application pdf files. Default file names: DESC.PDF CLMS.PDF ABST.PDF DRAW.PDF BIOM-1.PDF SPEC-ES-PDF
ep-request.xml (as indicated in package-data.xml) in the case of Form 1001e	Indicates the name of the pdf file containing the request form; default name EPF1001.PDF. It also indicates the correspondence between the EPO's file names and applicant's file names (see tag ep-electronic-files).
ep-euro-pct.xml (as indicated in package-data.xml) in the case of Form 1200	Indicates the name of the pdf file containing the request form; default name EPF1200.PDF. It also indicates the correspondence between the EPO's file names and applicant's file names (see tag ep-electronic-files).

The required PDF files which contain the application body are the following, as indicated in the file *application-body.xml*:

File Name	Description
ABST	A pdf file containing the abstract of the patent application.
BIOM-1	A pdf file containing the description of the Biological Material described in the patent application.
CLMS	A pdf file containing the claims of the patent application.
DESC	A pdf file containing the description of the patent application.
DRAW	A pdf file containing the drawings of the patent application.
SPEC-XX	XX is the language indicative (e.g. ES) of a non-EPO language

If data loaded this way is valid, it will populate all the fields necessary for submitting the application. After this step, the application will be ready for signing and sending. The actual conversion of the data stored in a given PMS to the format required by *epoline*® requires careful planning. We advise to use the table given in Annex I (Table of tags in alphabetical order) and add another column with the corresponding fields used by the particular PMS. This will make apparent the required conversion from one system to another, highlighting the fields which are needed and in which format. If the PMS is capable of outputting XML data, we advise to use an XMST application which can simply convert this output into *epoline*® format, as indicated in the above DTD's.

## CHAPTER 6

## Annex I. Table of tags in alphabetical order

ep-request.dtd tags	
TAG	DESCRIPTION
addcopies	Number of additional copies of the documents cited in the EP search report requested by applicant.
additional-fee	Contains additional fees such as opposition fee, fee for appeal, etc...
address	Address components. Address formats differ from country to country. If no structure possible use text.
address-1	First line of unformatted address (when it is not possible to use any of the other fields in address).
address-2	Second line of unformatted address.
address-3	Third line of unformatted address.
address-floor	Address floor, e.g. 10 <sup>th</sup> .
addressbook	Comprises all the information related to addresses.
agents	Information regarding agents or (EPO) representatives.
any-other-state	Any other state in which protection is being sought.
applicant	Applicant information. attributes for applicant: § sequence : sequence number of each applicant (e.g, sequence="1") as known by the EPO. § app-type : applicant type. Possible values: app-type="applicant": the applicant is only applicant; app-type="applicant-inventor": the applicant is also inventor; app-type="employee" - the applicant is an employee. [EPC Art. 133(3)]; § 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.

<b>ep-request.dtd tags</b>	
<b>TAG</b>	<b>DESCRIPTION</b>
applicant-file-name	This is the file name entered by the user in the "Document" screen; it is kept for correspondence with the user only. The file is re-named by the client software to epo-file-name.
applicants	Applicants information. At least one of the applicants named must be a resident or national of a PCT Contracting State for which the receiving Office acts.
author	Indicates the author of a note written to the EPO.
b	bold formatting for text.
basic-signature	a non-PKI electronic signature.
bio-accno	Biological accession number: the identification assigned to the biological material by the depository.
building	building information in address, e.g., Hoffman building.
check-list	Request (PCT/RO/101) BOX No.IX Check list, figure number to publish and language of International Application check-list * EPO: check list - this really refers to old paper filings and does not make much sense for OLF, e.g. there is always a request because the XML document is 'in' the request!
cheque-info	Contains the amount and the cheque number.
city	City or town name.
cl-abstract	checklist; the abstract is being furnished * EPO 1001: ppf - first page ppl - last page for page ranges (PDF).
cl-biological-material	includes the PCT/RO/134 or any separate sheet containing indications that is not included as part of the description.
cl-claims	checklist; claims are being furnished * EP 1001 * EP added : number-of-claims ppf - first page ppl - last page for page ranges (PDF).
cl-copy-general-power-of-attorney	checklist; a copy of the general power of attorney is being furnished
cl-description	checklist; a description is being furnished * EPO 1001 added: ppf - first page ppl - last page for page ranges (PDF)

<b>ep-request.dtd tags</b>	
<b>TAG</b>	<b>DESCRIPTION</b>
cl-drawings	checklist; drawings are being furnished * EPO 1001 added: fig-count for number of figures within the drawings page.
cl-fee-calculation	checklist; a fee calculation sheet is being furnished.
cl-general-power-of-attorney	checklist; a general power of attorney is being furnished.
cl-lack-of-signature	checklist; a statement explaining lack of signature is being furnished.
cl-other-document	checklist; an additional document is being furnished.
cl-priority-document	checklist; a priority document is being furnished.
cl-request	checklist; the request is being furnished.
cl-separate-power-of-attorney	checklist; a separate power of attorney is being furnished.
cl-sequence-listing	checklist; a sequence listing is being furnished.
cl-translation-of-application	check-list; a translation of application is being furnished.
click-wrap	a simple 'signature', e.g., clicking a button labeled 'accept' or 'I agree'.
correspondence-address	address used for general correspondence.
country	Country: use ST.3 country code, e.g. DE, FR, GB, NL, etc... Also includes EP, WO.
county	County, parish, department, etc (mainly UK, USA).
customer-number	Customer or agent number used by offices.
date	date: components of a date. Format: YYYYMMDD
deceased-inventor	deceased inventor name.
declaration1	Declaration as to the identity of the inventor (Rules 4.17(i) and 51bis.1(a)(i)).
declaration2	Declaration as applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate.
declaration3	Declaration as applicant's entitlement, as at the international filing date, to claim the priority of the earlier application, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii)).

<b>ep-request.dtd tags</b>	
<b>TAG</b>	<b>DESCRIPTION</b>
declaration4	Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America.
declaration5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty (Rules 4.17(v) and 51bis.1(a)(v)).
declarations	PCT/RO/101 Box No. VIII: DECLARATIONS (Rules 4.1(c)(iii) and 4.17).
department	department, division, section, etc. name.
depository	information regarding the facility storing the biological deposit.
designated-states	indication of specific Contracting States in or for which the applicant is seeking protection for his invention (Rule 4.9(a)).
designated-states-as-inventor	Rule 4.6(c): "The request may, for different designated states, indicate different persons as inventors where, in this respect, the requirements of the national laws of the designated States are not the same. In such a case, the request shall contain a separate statement for each designated State or group of States in which a particular person, or the same person, is to be considered the inventor, or in which particular persons, or the same persons, are to be considered the inventors."
designation-of-states	PCT/RO/101 Box No.V Designation Of States (PCT Rule 4.9) * EPO 1001 Do not use this for EPO designated states; use the EPO-specific tags.
designation-pct	the Contracting States in which protection is desired (Rules 4.1(a)(iv) and 4.9(a)).
doc-number	the number of the referenced patent (or application) document.
doc-page	NOT USED. (This is primarily to be used when data for the whole or major sections of an application are in image format OR other formats such as pdf. Page range attributes are given when required pp- page range ppf - first page ppl - last page (for pdf). The 'img' may also be used for complete pages, eg. in drawings. Recommended id = docp01, docp02, etc.)
document-id	Document identification refers to patents (and patent applications) only. See WIPO ST.14.
dtext	Descriptive text (free format).
ead	electronic address used for other than email.

<b>ep-request.dtd tags</b>	
<b>TAG</b>	<b>DESCRIPTION</b>
earlier-search-request	request to use results of earlier search; reference to that search.
electronic-signature	a signature represented by electronic means.
email	email address.
enhanced-signature	A PKI / PKCS #7 digital signature data type.
ep-agent	Agent or common representative [PCT Rules 90.1, 90.2, and EPC articles 133 and 134 ] * EPO agent = authorised representative attorney = Legal practitioner common-representative = association * rep-address used for multiple reps. yes = same address as 1st rep. no = different address.
ep-art61-appl	* EPC Article 61. European patent applications by persons not having the right to a European patent ...
ep-bio-add	Use for additional information: attribute: bio-info, uses the following codes: 1: Availability 2: Waiver 3: Deposit 4: Other The content could be the full text plus any additional text.
ep-bio-deposit	biological deposit citation/information [PCT Rule 13bis, EPC Rule 28] This covers all bio data references long and short within the description and/or claims. Recommended id = biod01, biod02, etc... * EPO 1001: use dtext (repeatable) for availability, waiver etc...
ep-designated-states	If "all" clicked on client screen - then attribute all="yes"; the element could be empty if no extension states : <ep-designated-states all="yes"></>
ep-divisional-appl	A divisional application (B620EP)
ep-electronic-files	* EPO 1001 These are references to the external files attached to the request (now e.g. PDF). This data may be in other DTD's also. The attribute doc-type must be used, e.g. spec; sequence
ep-fax	* EP fax - To which office application is faxed; possible values: BE, CH, EPAB, EPAM, EPO, FI, FR, GB, SE
ep-financial-data	* OLF - Payment and fees and cost pages.

<b>ep-request.dtd tags</b>	
<b>TAG</b>	<b>DESCRIPTION</b>
ep-inventor	The individual or entity responsible for creating the matter that protection is sought for.
ep-language-of-filing	* ep 1001 * Modified to one or multiple (mandatory) possible occurrences. EPO added attribute: lang-code = language code for EPO: "non-epo" "epo" "translation"  filing language, ISO639 language code, e.g. en,de,ja, etc.
ep-notes-to-EPO	Remarks or notes sent by the applicant to the EPO, in free format.
ep-office-specific-data	These tags have been included in this DTD and NOT in an external DTD. Therefore, office-dtd and file attributes have been changed to implied. office="EP" - mandatory
ep-priority-claim	priority claim (PCT Rule 4.10) * EPO 1001 added: translation
ep-request	The root node of Form 1001E.
ep-request-for-exam-art94	Request for examination in an admissible non-EPO language [EPC Article 94]. (Fee reduction)
epo-file-name	* This is the EPO file name given by the client software and used on the server.
exclusion-from-designation	State(s) excluded from precautionary designations under Rule 4.9(b)
extension-states	The states which are not members of the EPC but which have extension agreements. Use ST.3 country codes.
fax	fax number.
fax-image	a TIFF image of a signature.
fee	Represents each of the fee items in the total fee.
fee-calc-info	fee calculation information.
fee-factor	A number indicating how many times a fee is charged.
fee-schedule	The product of fee-factor times fee-sub-amount.
fee-sub-amount	Unitary cost of the fee.
fee-total-amount	The sum of all fee-sub-amount of every item.
fees	* EPO 1001 - Fees and costs.
fig-number	PCT/RO/101 Box IX: the number of the figure which should accompany the abstract.

<b>ep-request.dtd tags</b>	
<b>TAG</b>	<b>DESCRIPTION</b>
figure-to-publish	figure of the drawings which should accompany the abstract; figure to publish with the abstract.
file-reference-id	applicant's or agent's file reference, if desired, 12 characters maximum.
first-name	First or given name(s), initial(s).
i	italic formatting for text.
iid	individual id  * EPO 1001 for applicant as employee use this tag for the authorisation number - GENA.
invention-title	Title of the Invention: preferably two to seven words when in English or translated into English and precise [PCT Rule 4.3]. * EP 1001 * Changed to multiple titles possible (translations) in the order : EN, FR, DE EPC Rule 26 (b) title of the invention, which shall clearly and concisely state the technical designation of the invention and shall exclude all fancy names; Recommended id = 'inv'
inventors	Inventors information. If the US is designated, all of the inventors must also be named as applicants for purposes of that designation.
IPEA	Indicates which International Preliminary Examining Authority. Possible values of its ipea attribute: EP, other
IPER	Indicates the type of International Preliminary Examination Report. Possible values of its iper-type attribute: rational, detailed
isa	International Search Authority; international search to be carried out by.
kind	document kind code; e.g. A1.
kind-of-protection	kind of protection; e.g., patent, utility model.
last-name	last, family, surname.
mailcode	Mail code used within the organisation.
middle-name	middle name(s) or initial(s).
mode-of-payment	attributes: mode-type, account number and currency.
name	name: if no distinction or detail can be given. Also to be used for: personal (natural person) and corporate (legal entity) names.
national	the States for which protection or exclusion (depending upon context) is desired.
nationality	country of nationality.

<b>ep-request.dtd tags</b>	
<b>TAG</b>	<b>DESCRIPTION</b>
new-designation-country	New PCT member country states (e.g., not yet published in WIPO ST.3, joined after PCT electronic filing software published).
office-of-filing	Where the earlier application is an ARIPO application, indicate at least one country party to the PARIS convention for the protection of industrial property or one member of the WTO for which that earlier application was filed.
orgname	organisation name or company name. * EPO - also use when "Legal person" clicked on applicant OLF screen.
other-fee	Contains other fees such as renewal fees for each year, etc...
parties	PCT/RO/101 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].
phone	telephone number.
pkcs7	PKCS7 digital signature.
pobox	Post Office Box number.
postcode	postal code or zip code.
precautionary-designation-statement	[Rule 4.9(b),(c)] In addition to the designations made above (i.e, designation-of states), the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box (i.e., exclusion-from-designation) as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit.
prefix	title: e.g., Mr., Mrs., Dr. etc...
priority-claims	[PCT/RO/101 BOX No.VI Priority Claim (PCT Rule 4.10)].
priority-doc-attached	the priority document is attached to the application.
priority-doc-requested	the receiving office is requested to prepare and transmit to the IB a certified copy of the earlier application.
protection-request	protection requested for the designated office.

<b>ep-request.dtd tags</b>	
<b>TAG</b>	<b>DESCRIPTION</b>
ref-number	Reference number of general power of attorney.
region	the region for which protection or exclusion (depending upon context) is desired.
regional	regional (as opposed to national) protection being sought.
registered-number	registered, customer number, * EPO 1001 Use for APPR and FREP.
reimbursement	* reimbursement of any fees.
request-petition	[PCT Rule 4.1(a): "The request shall contain: (i) a petition," [PCT Rule 4.2]: "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.""]
residence	country of residence.
role	role, e.g. President, Chairman, etc...
room	address room; e.g., Room 55B.
search-authority	PCT/RO/101 Box No.VII :International Searching Authority.
search-region	Patent region (e.g. EP) as opposed to single country.
sequence-number	sequential identification of priority documents. [PCT/RO/101 Box VI.]
signatories	Signatories of the request [PCT/RO/101 Box No. X].
signatory	[PCT/RO/101 Box No. X] The signature must be that of the applicant (if there are several applicants, all must sign); however, the signature may be that of the agent, or the common representative, where a separate power of attorney appointing the agent or the common representative, respectively, or a copy of a general power of attorney is already in possession of the receiving Office, is furnished... [PCT Rules 4.1(d), 4.15, and 90]  Indicate the capacity of the signer with 'signatory-capacity'.
signatory-capacity	the capacity in which the person signs.
smallcaps	small capitals.

<b>ep-request.dtd tags</b>	
<b>TAG</b>	<b>DESCRIPTION</b>
sr-refund	* EPO1001 - re-fund of search fee (article 10 Rfees) on the basis of the earlier search report.
standard-fee	Comprises filing fee, search fee, claims fee, etc...
state	Region of country eg. state, province, etc...
street	street may contain house number or name.
sub	subscripted text.
subject	Subject of the note sent to the EPO.
suffix	name suffix (e.g., II, Jr., Dip., Ing., BA, etc.).
sup	superscripted text.
synonym	Optional name for company, e.g. IBM instead of International Business Machines.
term	* identifies the period of time during which the depository must be able to furnish samples of the biological material.
text	if no structure is possible, enter text (without markup).
text-string	a simple text string is to be used as the basic electronic signature, e.g., John Doe <text-string>/jd/</text-string>.
type-of-fee	Possible values: standard, other and additional. A somewhat arbitrary grouping for the different fees.
u	underscore: style - single is default.
url	Uniform Resource Locator; e.g. <i>www.wipo.int</i> ( <a href="http://www.wipo.int">http://www.wipo.int</a> )
us-rights	This person is successor to the rights of an inventor who is deceased, insane, or legally incapacitated, for the purposes of the designation of the United States of America.

## CHAPTER 7

## Annex II. EPO Request DTD

```

<!--
*****
*****
* EPO REQUEST.DTD - for epoline OLF Version 2.0 (old REQUEST
Form 1001)
* DTD Version 1.11 3 July 2003
* P.Brewin, epoline, EPO, The Hague
* pbrewin@epo.org
" www.epoline.org
*****
*****
* PUBLIC
*****
*****
* This DTD is based on:
*
http://pcteasy.wipo.int/efiling_standards/schemaDocs/request.dtd
* Request v1.1 2003 FEBRUARY
* It conforms, as far as possible, to:
* WIPO PCT Annex F DTDs and the latest PFCs:
* PFC EF/PFC 02/010 and 11); see:
* http://www.wipo.int/pct/efiling_standard/en/pfc_files.htm
*
* There are some minor changes to the main part:
* EPO added implied (optional) attributes:
* ELEMENT: ATTRIBUTE
* cl-abstract: ppf, ppl
* cl-claims: number-of-claims, ppf, ppl
* cl-description: ppf,ppl
* cl-drawings: fig-count
* The above will be in a recent PFC for Jan 2004 so we leave as
is
*
* Changes (24-06-2003)
* inventor changes to
* ep-inventor because of: renunciation, waiver, inv-rights
* agent changes to ep-agent
* priority-claim changes to ep-priority-claim
* language-of-filing changes to ep-language-of-filing
* office-specific changes to ep-office-specific (because of
content)
* bio-deposit changes to ep-bio-deposit
* Other changes are marked in the dtd.
*
* There are, of course, many PCT tags which are NOT used by the
EPO
*****
*****
* START OF EP-REQUEST DTD - MAIN PART
*
*****
*****

```

attributes for the request

```

Attributes:
lang = language of application - use ISO639 language code
dtd-version = dtd version number
file = filename of the whole application
status = status of the application; values: n = new application
date-produced = YYYYMMDD e.g, 20011230
if desired, 12 characters maximum
ro = Receiving office name, country code ST.3
produced-by = creator of this document
-->
<!ENTITY % name_group "((name | (prefix?,(last-name |
orgname),first-name?,middle-
name?,suffix?,iid?,role?,orgname?,department?,synonym*)),
        registered-number?)" >

<!ELEMENT ep-request ((file-reference-id?,request-
petition,invention-title*, parties,designation-of-
states?,priority-claims?,search-authority?,
declarations?,check-list?,figure-to-publish?,ep-language-of-
filing+,
        signatories?,dtext?,ep-office-specific-data) |
doc-page+) >

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

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

<!--(PCT Rule 4.1(a)):
"The request shall contain:
(i) a petition,"
(PCT Rule 4.2):
"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) >

<!--Title of the Invention: preferably two to seven words when
in English or translated into English and precise. (PCT Rule
4.3)

* EP 1001 *
Changed to multiple titles possible (translations)
in the order : EN, FR, DE
PB 14-01-2003

EPC Rule 26 (b) title of the invention, which shall clearly and

```

concisely state the technical designation of the invention and shall exclude all fancy names;

```

Recommended id = 'invt'
-->
<!ELEMENT invention-title (#PCDATA | b | i | u | sup | sub)* >

<!ATTLIST invention-title
            id ID #IMPLIED
            lang CDATA #REQUIRED >

<!--bold formatting for text
-->
<!ELEMENT b (#PCDATA | i | u | smallcaps)* >

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

<!--underline: style - single is default
-->
<!ELEMENT u (#PCDATA | b | i | smallcaps)* >

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

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

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

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

<!--PCT/RO/101 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:
At least one of the applicants named must be a resident or
national
of a PCT Contracting State for which the receiving Office acts.
-->
<!ELEMENT applicants (applicant+) >

<!--Applicant information:
attributes for applicant
sequence : sequence number of each applicant
e.g, sequence="1"
app-type : applicant type
app-type="applicant" : the applicant is only applicant
app-type="applicant-inventor" : the applicant is also inventor

```

```

* EP 1001 *
added 16-01-2003:
app-type="employee" - the applicant is an employee,- EPC Art.
133(3)

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
-->
<!ELEMENT applicant (addressbook+,nationality,residence,us-
rights*,
                    designated-states?,designated-states-as-
inventor?) >

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

<!ELEMENT addressbook
((%name_group; ,address,phone*,fax*,email*,url*,ead*,dtext?) |
text) >

<!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
                name-type (legal | natural) #IMPLIED >

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

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

<!--organisation name or company name -
* EPO - also use when "Legal person" clicked on
applicant OLF screen
-->
<!ELEMENT orgname (#PCDATA) >

<!--First or given name(s), initial(s)
-->
<!ELEMENT first-name (#PCDATA) >

```

```
<!--middle name(s) or initial(s)
-->
<!ELEMENT middle-name (#PCDATA) >

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

<!--individual id
* EPO 1001
for applicant as employee use this
tag for the authorisation number - GENA-->
<!ELEMENT iid (#PCDATA) >

<!--role, e.g. President, Chairman, etc.
-->
<!ELEMENT role (#PCDATA) >

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

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

<!--registered, customer number,
* EPO 1001
Use for APPR and FREP-->
<!ELEMENT registered-number (#PCDATA) >

<!--address components:
Address formats differ from country to country
If no structure possible use text
-->
<!ELEMENT address ((address-1?,address-2?,address-
3?,mailcode?,pobox?,room?,
address-
floor?,building?,street?,city?,county?,state?,postcode?,
country) | text) >

<!--Address, first line
-->
<!ELEMENT address-1 (#PCDATA) >

<!--Address, second line
-->
<!ELEMENT address-2 (#PCDATA) >

<!--Address, third line
-->
<!ELEMENT address-3 (#PCDATA) >

<!--organizational mail code
-->
<!ELEMENT mailcode (#PCDATA) >
```

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

<!--address room; e.g., Room 55B
-->
<!ELEMENT room (#PCDATA) >

<!--address floor, e.g., 10th
-->
<!ELEMENT address-floor (#PCDATA) >

<!--building information in address, e.g., Hoffman building
-->
<!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, etc.
-->
<!ELEMENT state (#PCDATA) >

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

<!--Country: use ST.3 country code, e.g. DE, FR, GB, NL, etc.
Also includes EP, WO
-->
<!ELEMENT country (#PCDATA) >

<!--if no structure is possible, enter text (without markup)
-->
<!ELEMENT text (#PCDATA) >

<!--telephone number
-->
<!ELEMENT phone (#PCDATA) >

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

<!--email address
-->
<!ELEMENT email (#PCDATA) >

<!--Universal Resource Locator; e.g. www.wipo.int
-->
<!ELEMENT url (#PCDATA) >
```

```

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

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

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

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

<!--This person is successor to the rights of an inventor who is
deceased, insane, or legally incapacitated, for the purposes
of the designation of the United States of America
-->
<!ELEMENT us-rights (#PCDATA) >

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

<!--indication of specific Contracting States in or for which
the applicant is seeking protection for his invention
(Rule 4.9(a))
-->
<!ELEMENT designated-states (country*,(region,country*)?) >

<!--the region for which protection or exclusion (depending upon
context) is desired
-->
<!ELEMENT region (country) >

<!--Rule 4.6(c):
"The request may, for different designated states, indicate
different persons as inventors where, in this respect, the
requirements of the national laws of the designated States
are not the same. In such a case, the request shall contain
a separate statement for each designated State or group of
States in which a particular person, or the same person, is
to be considered the inventor, or in which particular persons,
or the same persons, are to be considered the inventors."
-->
<!ELEMENT designated-states-as-inventor
(country*,(region,country+)* ) >

<!--Inventors information:
If the US is designated, all of the inventors must also
be named as applicants for purposes of that designation.
-->
<!ELEMENT inventors (ep-inventor | deceased-inventor)+ >

<!--the individual or entity responsible for creating the

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matter that protection is sought for
-->
<!ELEMENT ep-inventor (addressbook+,designated-states?) >

<!--Renunciation - EPC Rule 18(3)
Waiver - EPC Rule 17(3)-->
<!ATTLIST ep-inventor
        sequence CDATA #REQUIRED
        designation (all | all-except-us | us-only | as-
indicated)
        #IMPLIED
        waiver CDATA #IMPLIED
        renunciation CDATA #IMPLIED
        inv-rights (employee | successor | under-
agreement) #IMPLIED
        inv-rights-date CDATA #IMPLIED >

<!--deceased inventor name
-->
<!ELEMENT deceased-inventor ((name | (prefix?,(last-name |
orgname),first-name?,
        middle-
name?,suffix?,iid?,role?,orgname?,department?,synonym*)),
        registered-number?) >

<!ATTLIST deceased-inventor
        lang CDATA #IMPLIED
        sequence CDATA #IMPLIED >

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

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

<!--information regarding agents or (EPO) representatives
-->
<!ELEMENT agents (customer-number | ep-agent+) >

<!--Agent or common representative (PCT Rules 90.1, 90.2)
EPC articles 133 and 134
* EPO
agent = authorised representative
attorney = Legal practitioner
common-representative = association
* rep-address used for multiple reps.
yes = same address as 1st rep.
no = different address
-->
<!ELEMENT ep-agent (addressbook+) >

<!--PCT/RO/101 Box No.V Designation Of States (PCT Rule 4.9)
* EPO 1001
Do not use this for EPO designated states;
use the office specific area
-->
<!ELEMENT designation-of-states (designation-pct,(

```

```

        precautionary-designation-statement,exclusion-
from-designation?)?) >

<!--the Contracting States in which protection is desired
(Rules 4.1(a)(iv) and 4.9(a))
-->
<!ELEMENT designation-pct (regional*,national?,new-designation-
country*) >

<!--regional (as opposed to national) protection being sought
-->
<!ELEMENT regional (region,(country,protection-request*))+,any-
other-state?) >

<!--protection request for the designated office.
-->
<!ELEMENT protection-request (kind-of-protection,document-id?)
>

<!--kind of protection; e.g., patent, utility model
-->
<!ELEMENT kind-of-protection (#PCDATA) >

<!--Document identification refers to patents (and patent
applications) only. See WIPO ST.14
-->
<!ELEMENT document-id (country,doc-number,kind?,name?,date?) >

<!ATTLIST document-id
        lang CDATA #REQUIRED >

<!--the number of the referenced patent (or application)
document
-->
<!ELEMENT doc-number (#PCDATA) >

<!--document kind code; e.g. A1
-->
<!ELEMENT kind (#PCDATA) >

<!--date: components of a date. Format: YYYYMMDD
-->
<!ELEMENT date (#PCDATA) >

<!--any other state in which protection is being sought
-->
<!ELEMENT any-other-state EMPTY >

<!--the States for which protection or exclusion (depending upon
context) is desired
-->
<!ELEMENT national (country,protection-request*))+ >

<!--New PCT member country states (e.g., not yet published in
WIPO ST.3,
joined after PCT electronic filing software published)
-->
<!ELEMENT new-designation-country (#PCDATA) >

```

```

<!--Rule 4.9(b),(c)
In addition to the designations made above [i.e., designation-of
states], the applicant also makes under Rule 4.9(b) all other
designations which would be permitted under the PCT except any
designation(s) indicated in the Supplemental Box [i.e.,
exclusion-from-designation] as being excluded form the scope of
this statement. The applicant declares that those additional
designations are subject to confirmation and that any
designation
which is not confirmed before the expiration of 15 months from
the priority date is to be regarded as withdrawn by the
applicant
at the expiration of that time limit.
-->
<!ELEMENT precautionary-designation-statement (#PCDATA) >

<!--state(s) excluded from precautionary designations
under Rule 4.9(b)
-->
<!ELEMENT exclusion-from-designation (regional*,national?) >

<!--PCT/RO/101 BOX No.VI Priority Claim (PCT Rule 4.10)
-->
<!ELEMENT priority-claims (ep-priority-claim+) >

<!--priority claim (PCT Rule 4.10)
* EPO 1001
added:
translation-->
<!ELEMENT ep-priority-claim (country,doc-number?,date,office-
of-filing?,(
        priority-doc-requested | priority-doc-attached)?)
>

<!--EP added - translation-->
<!ATTLIST ep-priority-claim
        sequence CDATA #REQUIRED
        kind (national | regional | international)
#REQUIRED
        ep-kind (patent | provisional | utility | world)
#REQUIRED
        translation CDATA #IMPLIED >

<!--Where the earlier application is an ARIPO
application,indicate at
least one country party to the PARIS convention for the
protection
of industrial property or one member of the WTO for which that
earlier application was filed.
-->
<!ELEMENT office-of-filing ((region,country?) | country) >

<!--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 >

```

```
<!--PCT/RO/101 Box No.VII :International Searching Authority
-->
<!ELEMENT search-authority (isa,earlier-search-request?) >

<!--International Search Authority; international search
to be carried out by
-->
<!ELEMENT isa (country) >

<!--request to use results of earlier search;
reference to that search
-->
<!ELEMENT earlier-search-request (document-id+) >

<!--PCT/RO/101 Box No. VIII: DECLARATIONS
(Rules 4.1(c)(iii) and 4.17)
-->
<!ELEMENT declarations
(declaration1?,declaration2?,declaration3?,declaration4?,
declaration5?) >

<!--Declaration as to the identity of the inventor
(Rules 4.17(i) and 51bis.1(a)(i))
-->
<!ELEMENT declaration1 EMPTY >

<!ATTLIST declaration1
quantity CDATA #REQUIRED >

<!--Declaration as applicant's entitlement, as at the
international
filing date, to apply for and be granted a patent (Rules
4.17(ii)
and 51bis.1(a)(ii)), in a case where the declaration under Rule
4.17(iv) is not appropriate
-->
<!ELEMENT declaration2 EMPTY >

<!ATTLIST declaration2
quantity CDATA #REQUIRED >

<!--Declaration as applicant's entitlement, as at the
international
filing date, to claim the priority of the earlier application,
where the applicant is not the applicant who filed the earlier
application or where the applicant's name has changed since the
filing of the earlier application
(Rules 4.17(iii) and 51bis.1(a)(iii)).
-->
<!ELEMENT declaration3 EMPTY >

<!ATTLIST declaration3
quantity CDATA #REQUIRED >

<!--Declaration of inventorship (Rules 4.17(iv) and
51bis.1(a)(iv)) for
the purposes of the designation of the United States of America
-->
```

```
<!ELEMENT declaration4 EMPTY >

<!ATTLIST declaration4
    quantity CDATA #REQUIRED >

<!--Declaration as to non-prejudicial disclosures or exceptions
to
lack of novelty (Rules 4.17(v) and 51bis.1(a)(v))
-->
<!ELEMENT declaration5 EMPTY >

<!ATTLIST declaration5
    quantity CDATA #REQUIRED >

<!--Request (PCT/RO/101) BOX No.IX Check list, figure number to
publish and language of International Application check-list
* EPO : check list - this really refers to old paper filings
and does not make much sense for OLF, eg. there is a always
request because the user is 'in' the request! EPO always
need info about the description and claims
-->
<!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-power-
of-attorney?,
    cl-copy-general-power-of-attorney?,cl-lack-of-
signature?,
    cl-priority-document?,cl-translation-of-
application?,
    cl-biological-material?,cl-other-document*) >

<!ATTLIST check-list
    total-page-count CDATA #IMPLIED >

<!--checklist; the request is being furnished
-->
<!ELEMENT cl-request EMPTY >

<!ATTLIST cl-request
    page-count CDATA #IMPLIED >

<!--checklist; a description is being furnished
* EPO 1001 added:
ppf - first page
ppl - last page
for page ranges (PDF)-->
<!ELEMENT cl-description EMPTY >

<!ATTLIST cl-description
    page-count CDATA #IMPLIED
    ppf CDATA #IMPLIED
    ppl CDATA #IMPLIED >

<!--checklist; claims are being furnished
* EP 1001 *
EP added :
number-of-claims
ppf - first page
```

```
ppl - last page
for page ranges (PDF)
-->
<!ELEMENT cl-claims EMPTY >

<!ATTLIST cl-claims
    page-count CDATA #IMPLIED
    number-of-claims CDATA #IMPLIED
    ppf CDATA #IMPLIED
    ppl CDATA #IMPLIED >

<!--checklist; the abstract is being furnished
* EPO 1001 added:
ppf - first page
ppl - last page
for page ranges (PDF)-->
<!ELEMENT cl-abstract EMPTY >

<!--"0" 0 no abstract-->
<!ATTLIST cl-abstract
    page-count CDATA #IMPLIED
    ppf CDATA #IMPLIED
    ppl CDATA #IMPLIED >

<!--checklist; drawings are being furnished
* EPO 1001 added:
fig-count for number of figures within the drawings
page-->
<!ELEMENT cl-drawings EMPTY >

<!ATTLIST cl-drawings
    page-count CDATA #IMPLIED
    fig-count CDATA #IMPLIED >

<!--checklist; a sequence listing is being furnished
-->
<!ELEMENT cl-sequence-listing EMPTY >

<!ATTLIST cl-sequence-listing
    quantity CDATA #REQUIRED
    page-count CDATA #IMPLIED >

<!--checklist; a fee calculation sheet is being furnished
-->
<!ELEMENT cl-fee-calculation EMPTY >

<!--checklist; a separate power of attorney is being furnished
-->
<!ELEMENT cl-separate-power-of-attorney EMPTY >

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

<!--checklist; a general power of attorney is being furnished
-->
<!ELEMENT cl-general-power-of-attorney EMPTY >

<!ATTLIST cl-general-power-of-attorney
    quantity CDATA #REQUIRED >
```

```
<!--checklist; a copy of the general power
of attorney is being furnished
-->
<!ELEMENT cl-copy-general-power-of-attorney (ref-number+) >

<!ATTLIST cl-copy-general-power-of-attorney
          quantity CDATA #REQUIRED >

<!--Reference number of general power of attorney.
-->
<!ELEMENT ref-number (#PCDATA) >

<!--checklist; a statement explaining lack of
signature is being furnished
-->
<!ELEMENT cl-lack-of-signature EMPTY >

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

<!--checklist; a priority document is being furnished
-->
<!ELEMENT cl-priority-document (sequence-number+) >

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

<!--sequential identification of priority documents. PCT/RO/101
Box VI.
-->
<!ELEMENT sequence-number (#PCDATA) >

<!--check-list; a translation of application is being furnished
-->
<!ELEMENT cl-translation-of-application EMPTY >

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

<!--includes the PCT/RO/134 or any separate sheet containing
indications that is not included as part of the description
-->
<!ELEMENT cl-biological-material EMPTY >

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

<!--checklist; an additional document is being furnished
-->
<!ELEMENT cl-other-document (#PCDATA) >

<!ATTLIST cl-other-document
          page-count CDATA #IMPLIED >

<!--figure of the drawings which should accompany the abstract;
figure to publish with the abstract
-->
<!ELEMENT figure-to-publish (fig-number+) >
```

```

<!--PCT/RO/101 Box IX: the number of the figure which should
accompany the abstract
-->
<!ELEMENT fig-number (#PCDATA) >

<!--* ep 1001 *
Modified to one or multiple (mandatory) possible occurrences.
EPO added attribute:
lang-code = language code for EPO:
"non-epo"
"epo"
"translation"

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

<!ATTLIST ep-language-of-filing
          lang-code CDATA #IMPLIED >

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

<!--PCT/RO/101 Box No. X:
The signature must be that of the applicant (if there are
several
applicants, all must sign); however, the signature may be that
of
the agent, or the common representative, where a separate power
of
attorney appointing the agent or the common representative,
respectively, or a copy of a general power of attorney is
already
in possession of the receiving Office, is furnished...
(PCT Rules 4.1(d), 4.15, and 90)

Indicate the capacity of the signer with 'signatory-capacity'
-->
<!ELEMENT signatory (%name_group;,address?,electronic-
signature,signatory-capacity?) >

<!--a signature represented by electronic means
-->
<!ELEMENT electronic-signature (basic-signature | enhanced-
signature) >

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

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

<!--a TIFF image of a signature
-->

```

```

<!ELEMENT fax-image    EMPTY    >

<!ATTLIST fax-image
          file CDATA    #REQUIRED >

<!--a simple text string is to be used as the basic electronic
signature, e.g., John Doe <text-string>/jd/</text-string>
-->
<!ELEMENT text-string  (#PCDATA) >

<!--a simple 'signature', e.g., clicking a button
labeled 'accept' or 'I agree'
-->
<!ELEMENT click-wrap   EMPTY    >

<!--A PKI / PKCS #7 digital signature data type
-->
<!ELEMENT enhanced-signature (pkcs7) >

<!--PKCS7 digital signature
-->
<!ELEMENT pkcs7        EMPTY    >

<!--the capacity in which the person signs
-->
<!ELEMENT signatory-capacity (#PCDATA) >

<!--
*****
*****
* START OF EPO SPECIFIC TAGS
*****
*****
These tags have been included in this DTD and NOT an external
DTD.
Therefore, office-dtd and file attributes have been changed to
implied.

office="EP" - mandatory
*****
*****-->
<!ELEMENT ep-office-specific-data (ep-designated-states,ep-
divisional-appl?,
          ep-request-for-exam-art94?,ep-art61-appl?,ep-
fax?,ep-bio-deposit*,
          ep-electronic-files*,ep-financial-data?,ep-notes-
to-EPO*) >

<!ATTLIST ep-office-specific-data
          office CDATA    #REQUIRED
          office-dtd CDATA #IMPLIED
          file CDATA     #IMPLIED
          id CDATA      #IMPLIED
          lang CDATA    #REQUIRED
          status CDATA  #IMPLIED >

<!--* If "all" clicked on client screen -
then attribute all="yes"; the element could be empty
if no extension states :
<ep-designated-states all="yes"></>

```

```

-->
<!ELEMENT ep-designated-states
(country*,(region,country*)?,extension-states?) >

<!ELEMENT extension-states (country*,(region,country*)?) >

<!--* A divisional application (B620EP)
-->
<!ELEMENT ep-divisional-appl (#PCDATA) >

<!--
Request for examination in an
admissible non-EPO language
EPC Article 94.
(Fee reduction)-->
<!ELEMENT ep-request-for-exam-art94 EMPTY >

<!ATTLIST ep-request-for-exam-art94
          lang CDATA #REQUIRED >

<!--* EPC Article 61. European patent applications by persons
not
having the right to a European patent ...
-->
<!ELEMENT ep-art61-appl (#PCDATA) >

<!--* EP fax - To which office application is faxed; possible
values:
BE
CH
EPAB
EPAM
EPO
FI
FR
GB
SE
-->
<!ELEMENT ep-fax (date) >

<!ATTLIST ep-fax
          office-name CDATA #REQUIRED >

<!--* biological deposit citation/information
According to PCT Rule 13bis,
EPC Rule 28
This covers all bio data references long and short
within the description and/or claims

Recommended id = biod01, biod02, etc.
* EPO 1001:
use dtext (repeatble) for availability, waiver etc.
-->
<!ELEMENT ep-bio-deposit (depository,bio-accno,date?,term?,ep-
bio-add*,dtext?) >

<!--* information regarding the facility storing the biological
deposit
-->

```

```

<!ELEMENT depository (#PCDATA | address)* >

<!--* biological accession number: the identification assigned
to the biological material by the depository
-->
<!ELEMENT bio-accno (#PCDATA) >

<!--* identifies the period of time during which the depository
must
be able to furnish samples of the biological material.
-->
<!ELEMENT term (#PCDATA) >

<!--Use for addtional information
attribute: bio-info, use codes 1 to 4
to generate:
Availability ..
Waiver ..
Deposit ...
Other ..
The content could be the full text plus any additional text.-->
<!ELEMENT ep-bio-add (#PCDATA) >

<!ATTLIST ep-bio-add
            bio-info CDATA #REQUIRED
            bio-description CDATA #IMPLIED >

<!--* EPO 1001
These are references to the external files attached to the
request (now eg. PDF).This data may be in other dtlds also.
The attribute doc-type must be used
eg. spec; sequence
-->
<!ELEMENT ep-electronic-files (applicant-file-name,epo-file-
name)? >

<!ATTLIST ep-electronic-files
            doc-type CDATA #REQUIRED >

<!--* This is the file name entered by the user in the
"Document" screen; it is kept for correspondence
with the user only.
The file is re-named by the client software under
epo-file-name
-->
<!ELEMENT applicant-file-name (#PCDATA) >

<!--* This is the epo file name given by the client software and
used
on the server
-->
<!ELEMENT epo-file-name (#PCDATA) >

<!--* OLF - Payment and fees and cost pages
-->
<!ELEMENT ep-financial-data (mode-of-
payment?,reimbursement?,sr-refund?,addcopies?,
fees?) >

<!ATTLIST ep-financial-data

```

```

        curr CDATA #REQUIRED >

<!ELEMENT mode-of-payment (#PCDATA | cheque-info)* >

<!ATTLIST mode-of-payment
        accno CDATA #REQUIRED
        mode-type (auto | deposit | batch | bank | giro |
cheque)
        #REQUIRED
        currency CDATA #IMPLIED >

<!ELEMENT cheque-info (#PCDATA) >

<!ATTLIST cheque-info
        chequeno CDATA #REQUIRED
        amount CDATA #REQUIRED >

<!--* reimbursement off any fees
-->
<!ELEMENT reimbursement (#PCDATA) >

<!ATTLIST reimbursement
        accno CDATA #REQUIRED >

<!--* EPO1001 -
re-fund of search fee (article 10 Rfees) on the basis
of the earlier search report-->
<!ELEMENT sr-refund (#PCDATA) >

<!--* EPO1001 -
Number of additional copies of the documents cited in the EP
search report-->
<!ELEMENT addcopies (#PCDATA) >

<!--* EPO 1001 - Fees and costs-->
<!ELEMENT fees (standard-fee?,other-fee?,additional-fee?,fee-
calc-info?,
        fee-total-amount) >

<!ATTLIST fees
        date CDATA #REQUIRED >

<!ELEMENT standard-fee (fee*) >

<!ELEMENT fee (type-of-fee,fee-factor,fee-schedule,fee-sub-
amount) >

<!ATTLIST fee
        index CDATA #REQUIRED
        topay (yes | no) #REQUIRED >

<!ELEMENT type-of-fee (#PCDATA) >

<!ELEMENT fee-factor (#PCDATA) >

<!ELEMENT fee-schedule (#PCDATA) >

<!ELEMENT fee-sub-amount (#PCDATA) >

```

```

<!ELEMENT other-fee (fee*) >

<!ELEMENT additional-fee (fee*) >

<!ELEMENT fee-calc-info (search-region,IPEA,IPER) >

<!ELEMENT search-region EMPTY >

<!ATTLIST search-region
      region (Other | EP) "EP" >

<!ELEMENT IPEA EMPTY >

<!ATTLIST IPEA
      ipea (EP | other) "EP" >

<!ELEMENT IPER EMPTY >

<!ATTLIST IPER
      iper-type (rational | detailed) #REQUIRED >

<!ELEMENT fee-total-amount (#PCDATA) >

<!ELEMENT ep-notes-to-EPO (author?,subject?,date,dtext) >

<!ATTLIST ep-notes-to-EPO
      id ID #IMPLIED
      page CDATA #REQUIRED >

<!ELEMENT author (#PCDATA) >

<!ELEMENT subject (#PCDATA) >

<!--
*****
*****
* START OF DOC PAGE
*****
*****

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

Recommended id = docp01, docp02, etc.
*****
*****
-->
<!ELEMENT doc-page EMPTY >

<!ATTLIST doc-page
      id ID #IMPLIED
      he NMTOKEN #REQUIRED
      wi NMTOKEN #REQUIRED
      type (jpg | pdf | tif) #REQUIRED
      alt CDATA #IMPLIED
      pp CDATA #IMPLIED

```

```
ppf CDATA      #IMPLIED
ppl CDATA      #IMPLIED
file CDATA     #REQUIRED
color (color | bw) #IMPLIED
orientation (portrait | landscape) "portrait" >
```



## CHAPTER 8

## Annex III. PKGHEADER DTD

```

<?xml version='1.0' encoding='UTF-8' ?>
<!--
*****
*****
*   pkgheader v1.0      2001 DECEMBER
*
*****
*****
*   PUBLIC "-//WIPO//DTD PKGHEADER 1.0//EN" "pkgheader.dtd"
*
*****
*****
*
http://pcteasy.wipo.int/efiling_standards/schemaDocs/pkgheader.d
td      *
*****
*****
*   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
*
*   WIPO:  John Dunning  john.dunning@wipo.int
*
*****
*****

```

Root element, pkgheader

Attributes:

```

  lang          = language of application - use ISO639 language
code
  dtd-version   = dtd version number
  file          = filename of the whole application
  status        = status of the application;
                 values: n = new application
-->

```

```

<!ELEMENT pkgheader (wad-message-digest , transmittal-info , ip-
type
                    , application-software? , transmission-type?
                    , payment?)>

```

```

<!ATTLIST pkgheader  lang          CDATA  #REQUIRED
                    dtd-version   CDATA  #IMPLIED
                    file          CDATA  #IMPLIED
                    status        CDATA  #IMPLIED>

```

```

<!--
  credit card used as payment method
-->

```

```

<!ELEMENT credit-card EMPTY>

<!ATTLIST credit-card  number      CDATA  #REQUIRED
                        expires     CDATA  #REQUIRED
                        name         CDATA  #IMPLIED
                        postal-code  CDATA  #IMPLIED >

<!--
  deposit account information
-->
<!ELEMENT account EMPTY>

<!ATTLIST account  number      CDATA  #REQUIRED
                  account-type CDATA  #REQUIRED
                  name         CDATA  #IMPLIED >

<!--
  total amount of fees due
-->
<!ELEMENT fee-total EMPTY>

<!ATTLIST fee-total  amount CDATA  #REQUIRED >
<!--
  amount due
-->
<!ELEMENT fee EMPTY>

<!ATTLIST fee  fee-code CDATA  #REQUIRED
             amount  CDATA  #REQUIRED
             quantity CDATA  #IMPLIED
             currency CDATA  #REQUIRED >

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

<!ATTLIST application-reference  appl-type CDATA  #REQUIRED >
<!--
  Document identification refers to patents (and patent
  applications) only.  See WIPO ST.14
-->
<!ELEMENT document-id (country , doc-number , kind? , name? ,
date?)>

<!ATTLIST document-id  lang CDATA  #IMPLIED >
<!--
  reference to an appealed application
-->
<!ELEMENT appeal-reference (doc-number , date?)>

<!ATTLIST appeal-reference  appeal-type 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  name-type          (legal | natural ) #IMPLIED
>
<!--
  Title of the Invention: preferably two to seven words when

```

in English or translated into English and precise. (Rule 4.3)

```

Recommended id = 'invt'
-->
<!ELEMENT invention-title (#PCDATA | b | i | u | sup | sub)*>

<!ATTLIST invention-title id ID #IMPLIED
                           lang CDATA #IMPLIED >
<!--
  underscore: style - single is default
-->
<!ELEMENT u (#PCDATA | b | i | smallcaps)*>

<!ATTLIST u style (single | double | dash | dots )
'single'>
<!--
  Wrapped Application Documents message digest
-->
<!ELEMENT wad-message-digest (#PCDATA)>

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

<!--
  other payment method. Specify
-->
<!ELEMENT other-method (#PCDATA)>

<!--
  transmission type; e.g., submission or dispatch, etc.
-->
<!ELEMENT transmission-type (#PCDATA)>

<!--
the software used to generate the XML document instance
-->
<!ELEMENT application-software (software-name , software-version
, software-message?)>

<!--
  any message (e.g., parser response text) returned by
  the software used to create the document
-->
<!ELEMENT software-message (#PCDATA)>

<!--
  the version of the software used to create the document
-->
<!ELEMENT software-version (#PCDATA)>

<!--
  the name of the software used to create the document
-->
<!ELEMENT software-name (#PCDATA)>

<!--

```

```
    Intellecutal Property type
-->
<!ELEMENT ip-type (#PCDATA)>

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

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

<!--
    Document transfer information between offices.
-->
<!ELEMENT office-to-office (invention-title? , first-named-
applicant?
    , confirmation-number? , application-
reference
    , publication-reference? , file-
reference-id?
    , from? , to?)>

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

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

<!--
    subsequent filing information, before Issue Date
-->
<!ELEMENT subsequent-filing (invention-title? , first-named-
applicant
    , confirmation-number? , file-
reference-id?
    , appeal-reference? , (application-
reference+
    | (patent-reference , application-
reference+))
    , document-code* , to)>

<!--
    patent reference information: patent number, date, etc
-->
```

```

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

<!--
  document kind code; e.g. A1
-->
<!ELEMENT kind (#PCDATA)>

<!--
  date: components of a date.  Format: YYYYMMDD
-->
<!ELEMENT date (#PCDATA)>

<!--
  the number of the referenced patent (or application) document
-->
<!ELEMENT doc-number (#PCDATA)>

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

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

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

<!--
  Country: use ST.3 country code, e.g. DE, FR, GB, NL, etc.
  Also includes EP, WO
-->
<!ELEMENT country (#PCDATA)>

<!--
  for reference to non-PCT document from national office;
  code defined by national office
-->
<!ELEMENT document-code (#PCDATA)>

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

<!--
  first applicant name in applicant group
-->
<!ELEMENT first-named-applicant ((name | (prefix? , last-name ,
first-name

```

```
, middle-name? , suffix? , iid?  
, role?  
, orgname? , department? ,  
synonym*))  
, registered-number?)>  
  
<!--  
    registered number  
-->  
<!ELEMENT registered-number (#PCDATA)>  
  
<!--  
    synonym  
-->  
<!ELEMENT synonym (#PCDATA)>  
  
<!--  
    department, division, section, etc. name  
-->  
<!ELEMENT department (#PCDATA)>  
  
<!--  
    organisation name or company name  
-->  
<!ELEMENT orgname (#PCDATA)>  
  
<!--  
    role, e.g. President, Chairman, etc.  
-->  
<!ELEMENT role (#PCDATA)>  
  
<!--  
    individual id  
-->  
<!ELEMENT iid (#PCDATA)>  
  
<!--  
    name suffix (e.g., II, Jr., Dip., Ing., BA, etc.)  
-->  
<!ELEMENT suffix (#PCDATA)>  
  
<!--  
    middle name(s) or initial(s)  
-->  
<!ELEMENT middle-name (#PCDATA)>  
  
<!--  
    First or given name(s), initial(s)  
-->  
<!ELEMENT first-name (#PCDATA)>  
  
<!--  
    last, family, surname  
-->  
<!ELEMENT last-name (#PCDATA)>  
  
<!--  
    title: e.g., Mr., Mrs., Dr. etc  
-->  
<!ELEMENT prefix (#PCDATA)>
```

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

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

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

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

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

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



## CHAPTER 9

## Annex IV. PACKAGE-DATA DTD

```

<?xml version='1.0' encoding='UTF-8' ?>
<!--
*****
*****
*   package-data   v1.0 2001 DECEMBER
*
*****
*****
*   PUBLIC "-//WIPO//DTD PACKAGE DATA 1.0//EN" "package-data.dtd"
*
*****
*****
*   http://pcteasy.wipo.int/efiling_standards/schemaDocs/package-
data.dtd *
*****
*****
*   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
*
*   WIPO:  John Dunning; john.dunning@wipo.int
*
*****
*****

```

Root Element 'package-data'

Attributes:

lang	= language of application - use ISO639 language code
dtd-version	= dtd version number
file	= filename of the whole application
status	= status of the application; values: n = new application
produced-by	= creator of this document
date-produced	= YYYYMMDD e.g, 20011230 if desired, 12 characters maximum
country	= st.3 code

%document-attributes group entity:

lang	= language code of attached document, ISO639 language code, e.g, en,de,ja,,
file	= attached document file name e.g, "request.xml"
status	= attached document status e.g, new, replace,
carriers	=
internal	= This WAD contains the referenced electronic document

```

        external = Outside electronic carrier contains the
referenced
        electronic document
        paper = The referenced document is paper form
-->
<!ENTITY % document_attributes " file      CDATA #REQUIRED
                                lang       CDATA #IMPLIED
                                status    CDATA #IMPLIED
                                carriers   (internal-
electronic
                                | external-
electronic
                                | paper )
#IMPLIED">

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

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

<!--
other documents; specify with sub-elements
-->
<!ELEMENT other-doc (document-name | document-code | dtext)+>

<!ATTLIST other-doc id          ID          #IMPLIED
                    %document_attributes;
                    file-type   (xml | pdf | txt | tif | zip |
jpg )
#REQUIRED >
<!--

```

```

    Wrapped document referenced; e.g.record copy, certified
    priority document.
-->
<!ELEMENT wrapped-document EMPTY>

<!ATTLIST wrapped-document  id      CDATA  #IMPLIED
                             lang    CDATA  #IMPLIED
                             status  CDATA  #IMPLIED
                             file     CDATA  #REQUIRED
                             package-type (wad | wasp | sep )

#REQUIRED >
<!--
    correspondence from applicant
    it is possible to use correspondence-type attribute
    for correspondence title
-->
<!ELEMENT correspondence EMPTY>

<!ATTLIST correspondence  id              ID          #IMPLIED
                           %document_attributes;
                           corr-type       CDATA

#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  id      ID          #IMPLIED
                           %document_attributes; >
<!--
    published application, e.g. PCT Art.20 communication
-->
<!ELEMENT published-application EMPTY>

<!ATTLIST published-application  id      ID          #IMPLIED
                                  %document_attributes; >
<!--
    English translation of
    International Preliminary Examination Report

```

```
-->
<!ELEMENT trans-preliminary-examination-report EMPTY>

<!ATTLIST trans-preliminary-examination-report id ID
#IMPLIED

%document_attributes; >
<!--
  International Preliminary Examination Report (IPER) (Article
  35)
-->
<!ELEMENT preliminary-examination-report EMPTY>

<!ATTLIST preliminary-examination-report id ID
#IMPLIED
                                %document_attributes;
>
<!--
  English translation of search report
-->
<!ELEMENT trans-search-report EMPTY>

<!ATTLIST trans-search-report id ID #IMPLIED
                                %document_attributes; >
<!--
  search report
-->
<!ELEMENT search-report EMPTY>

<!ATTLIST search-report id ID #IMPLIED
                                %document_attributes; >
<!--
  translation of international application
-->
<!ELEMENT translation-of-application EMPTY>

<!ATTLIST translation-of-application id ID #IMPLIED
                                %document_attributes; >
<!--
  a copy of the earlier application for which priority is
  being claimed (Rule 17)
-->
<!ELEMENT priority-document EMPTY>

<!ATTLIST priority-document id ID #IMPLIED
                                %document_attributes; >
<!--
  amendment request document (PCT Art 19, Art 34)
-->
<!ELEMENT amendment EMPTY>

<!ATTLIST amendment %document_attributes;
                                id ID #IMPLIED >
<!--
  notification form among applicant and offices
  attribute 'notf-type' = notification type
-->
<!ELEMENT notification EMPTY>

<!ATTLIST notification id ID #IMPLIED
```



```

dec-type (1 | 2 | 3 | 4 | 5 |
combined )

#REQUIRED >
<!--
  reference to an attached fee-calculation sheet
-->
<!ELEMENT fee-calculation-sheet EMPTY>

<!ATTLIST fee-calculation-sheet id ID #IMPLIED
                                %document_attributes; >
<!--
  chapter2-demand form (IPEA401)
-->
<!ELEMENT chapter2-demand EMPTY>

<!ATTLIST chapter2-demand id ID
#IMPLIED
                                %document_attributes; >
<!--
Application Body document:
  description, claims, drawings and abstract
-->
<!ELEMENT application-body-doc EMPTY>

<!ATTLIST application-body-doc id ID #IMPLIED
                                %document_attributes; >
<!--
  PCT request form (PCT/RO/101)
-->
<!ELEMENT application-request EMPTY>

<!ATTLIST application-request %document_attributes;
                                id ID #IMPLIED
>
<!--
  a signature represented by electronic means
-->
<!ELEMENT electronic-signature (basic-signature | enhanced-
signature)>

<!ATTLIST electronic-signature date CDATA #REQUIRED
                                place-signed CDATA #IMPLIED >
<!--
  a TIFF image of a signature
-->
<!ELEMENT fax-image EMPTY>

<!ATTLIST fax-image file CDATA #REQUIRED >
<!--
  application reference information: application number, country
-->
<!ELEMENT application-reference (document-id)>

<!ATTLIST application-reference appl-type CDATA #REQUIRED >
<!--
  Document identification refers to patents (and patent
  applications) only. See WIPO ST.14
-->

```

```

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

<!ATTLIST document-id lang CDATA #IMPLIED >
<!--
reference to an appealed application
-->
<!ELEMENT appeal-reference (doc-number , date?)>

<!ATTLIST appeal-reference appeal-type 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 name-type (legal | natural ) #IMPLIED
>
<!--
Title of the Invention: preferably two to seven words when
in English or translated into English and precise. (Rule 4.3)

Recommended id = 'invt'
-->
<!ELEMENT invention-title (#PCDATA | b | i | u | sup | sub)*>

<!ATTLIST invention-title id ID #IMPLIED
lang CDATA #IMPLIED >
<!--
underscore: style - single is default
-->
<!ELEMENT u (#PCDATA | b | i | smallcaps)*>

<!ATTLIST u style (single | double | dash | dots )
'single' >
<!--
holder for other documents that do not conform to one of the
DTDs published in Appendix I of Annex F.
-->
<!ELEMENT other-documents (other-doc*)>

<!--
the name of the other-doc(ument) referenced
-->
<!ELEMENT document-name (#PCDATA)>

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

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

<!--
PCT/RO/101 Box No. X:

```

The signature must be that of the applicant (if there are several applicants, all must sign); however, the signature may be that of the agent, or the common representative, where a separate power of attorney appointing the agent or the common representative, respectively, or a copy of a general power of attorney is already in possession of the receiving Office, is furnished... (PCT Rules 4.1(d), 4.15, and 90)

Indicate the capacity of the signer with 'signatory-capacity'

```
-->
<!ELEMENT signatory ((name | (prefix? , last-name , first-name
, middle-name? , suffix? , iid? , role? ,
orgname?
, department? , synonym*)) , registered-
number?
, address? , electronic-signature ,
signatory-capacity?)>
```

```
<!--
address components:
Address formats differ from country to country
If no structure possible use text
-->
<!ELEMENT address ((address-1? , address-2? , address-3? ,
mailcode?
, pobox? , room? , address-floor? , building?
, street?
, city? , county? , state? , postcode ,
country) | text)>
```

```
<!--
if no structure is possible, enter text (without markup)
-->
<!ELEMENT text (#PCDATA)>
```

```
<!--
postal code or zip code
-->
<!ELEMENT postcode (#PCDATA)>
```

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

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

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

```
<!--
```

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

<!--
    building information in address, e.g., Hoffman building
-->
<!ELEMENT building (#PCDATA)>

<!--
    address floor, e.g., 10th
-->
<!ELEMENT address-floor (#PCDATA)>

<!--
    address room; e.g., Room 55B
-->
<!ELEMENT room (#PCDATA)>

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

<!--
    organizational mail code
-->
<!ELEMENT mailcode (#PCDATA)>

<!--
    Address, third line
-->
<!ELEMENT address-3 (#PCDATA)>

<!--
    Address, second line
-->
<!ELEMENT address-2 (#PCDATA)>

<!--
    Address, first line
-->
<!ELEMENT address-1 (#PCDATA)>

<!--
    the capacity in which the person signs
-->
<!ELEMENT signatory-capacity (#PCDATA)>

<!--
    A PKI / PKCS #7 digital signature data type
-->
<!ELEMENT enhanced-signature (pkcs7)>

<!--
    PKCS7 digital signature
-->
<!ELEMENT pkcs7 EMPTY>
```

```
<!--
  a non-PKI electronic signature
-->
<!ELEMENT basic-signature (fax-image | text-string | click-
wrap)>

<!--
  a simple 'signature', e.g., clicking a button
  labeled 'accept' or 'I agree'
-->
<!ELEMENT click-wrap EMPTY>

<!--
  a simple text string is to be used as the basic electronic
  signature, e.g., John Doe <text-string>/jd/</text-string>
-->
<!ELEMENT text-string (#PCDATA)>

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

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

<!--
  Document transfer information between offices.
-->
<!ELEMENT office-to-office (invention-title? , first-named-
applicant?
                             , confirmation-number? , application-
reference
                             , publication-reference? , file-
reference-id?
                             , from? , to?)>

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

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

<!--
  subsequent filing information, before Issue Date
```

```

-->
<!ELEMENT subsequent-filing (invention-title? , first-named-
applicant
                                , confirmation-number? , file-
reference-id?
                                , appeal-reference?
                                , (application-reference+
| (patent-reference , application-
reference+))
                                , document-code* , to)>

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

<!--
    document kind code; e.g. A1
-->
<!ELEMENT kind (#PCDATA)>

<!--
    date: components of a date.  Format: YYYYMMDD
-->
<!ELEMENT date (#PCDATA)>

<!--
    the number of the referenced patent (or application) document
-->
<!ELEMENT doc-number (#PCDATA)>

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

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

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

<!--
    Country: use ST.3 country code, e.g. DE, FR, GB, NL, etc.
    Also includes EP, WO
-->
<!ELEMENT country (#PCDATA)>

<!--
    for reference to non-PCT document from national office;
    code defined by national office
-->

```

```
<!ELEMENT document-code (#PCDATA)>

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

<!--
  first applicant name in applicant group
-->
<!ELEMENT first-named-applicant ((name | (prefix? , last-name ,
first-name
                                , middle-name? , suffix? , iid?
, role?
                                , orgname? , department? ,
synonym*))
                                , registered-number?)>

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

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

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

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

<!--
  role, e.g. President, Chairman, etc.
-->
<!ELEMENT role (#PCDATA)>

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

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

<!--
  middle name(s) or initial(s)
-->
<!ELEMENT middle-name (#PCDATA)>

<!--
```

```
    First or given name(s), initial(s)
-->
<!ELEMENT first-name (#PCDATA)>

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

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

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

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

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

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

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

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



## CHAPTER 10

## Annex V. APPLICATION-BODY DTD

```

<?xml version='1.0' encoding='UTF-8' ?>
<!--
*****
*****
*   application-body   v1.0   2001 DECEMBER
*
*****
*****
*   PUBLIC "-//WIPO//DTD APPLICATION BODY 1.0//EN" "application-
body.dtd" *
*****
*****
*   http://pcteasy.wipo.int/efiling_standards/schemaDocs/
*
*
*
*
*
*****
*****
*   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
*
*   WIPO:  John Dunning; john.dunning@wipo.int
*
*****
*****

*****
****
*   XML VERSION FOR FILING OF PCT APPLICATIONS:
*
*   description, claims, abstract, drawings -
*
*   it may be utilised by other offices as required -
*
*   but it is NOT recommended to add or change element and
*
*   attribute names
*
*   see: http://pcteasy.wipo.int/efiling_standards/EFPage.htm
*
*
*
*   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:
*
* - earlier versions 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
*

*****

-->
<!--
import character entity set. Download from:
http://pcteasy.wipo.int/efiling_standards/schemaDocs/wipo.ent

Note that nsgmls-based parsers (SP, Near & Far Designer, etc.)
may not be able to process this file for reasons described
below
in MathML comments.
-->
<!ENTITY % wipo PUBLIC "-//WIPO//ENTITIES WIPO 1.0//EN"
"wipo.ent">
%wipo;

<!--

*****

* INCLUDE COMPONENT DTDS (MATHML, OASIS EXCHANGE TABLE MODEL
*

*****

-->
<!-- DTD MathML2: maintained by W3C. Download from:
http://www.w3.org/TR/MathML2/DTD-MathML-20010221.zip

If using nsgmls-based parser (SP, Near & Far Designer,
etc.)
uncomment 'mathml-charent-module' switch below or replace
the
referenced MathML2 DTD with the version downloadable from:
http://www.w3.org/Math/DTD/dtd-sp.zip

```

```

This notice copied from: http://www.w3.org/Math/DTD/

"DTD for nsgmls
Some systems (including the popular nsgmls parser) may
not be able
to process files using 'plane 1' characters which have
Unicode
numbers higher than #xFFFF. The versions of the DTD
provided here
incorporate the modifications mentioned above, but the
high
characters are replaced by the equivalent mchar
construct
<mchar name="..." /> this allows the DTD to be read and
for MathML
files to be validated using such systems."
-->
<!--ENTITY % mathml-charent.module "IGNORE" -->
<!ENTITY % MATHML.prefixed "IGNORE">

<!ENTITY % MATHML.xmlns "">

<!-- import MathML2 dtd -->
<!ENTITY % mathml2 PUBLIC "-//W3C//DTD MathML 2.0//EN"
"mathml2.dtd">
%mathml2;

<!-- DTD OASIS Open XML Exchange Table Model.
Maintained by OASIS; download from:
http://www.oasis-open.org/specs/soextblx.dtd
Note that the FPI in soextblx.dtd refers to itself as
'calstblx'.
That convention has been followed here.
-->
<!-- create content for title element in table -->
<!ENTITY % title "<!ELEMENT title (#PCDATA | b | i | u | sup |
sub | smallcaps)* > ">
%title;

<!-- override OASIS Exchange <entry> model -->
<!ENTITY % tbl.entry.mdl "(#PCDATA | b | i | u | sup | sub |
smallcaps | br
| patcit | nplcit | bio-deposit | crossref |
img
| dl | ul | ol | chemistry | maths)* ">

<!-- import OASIS Exchange model -->
<!ENTITY % calstblx PUBLIC "-//OASIS//DTD XML Exchange Table
Model 19990315//EN"
"soextblx.dtd">
%calstblx;
<!--

*****
****
* SECTION II - DTD
*

```

```
*****
****
```

#### 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.

#### Attributes:

```
lang          = language of application - use ISO639 language
code
dtd-version = dtd version number
file         = filename of the whole application
id          = unique id for this application - could be file
name
status      = status of the application; values:
              n = new application
id          = an identifier for this application (could be
filename)
country     = WIPO ST.3 code for application
```

```
-->
```

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

```
<!ATTLIST application-body lang          CDATA #REQUIRED
                           dtd-version CDATA #IMPLIED
                           file         CDATA #IMPLIED
                           status      CDATA #IMPLIED
                           id          ID   #IMPLIED
                           country     CDATA #REQUIRED >
```

```
<!--
```

a drawing (figure), necessary for the understanding of the invention

Recommended id = f01, f02, etc.

```
-->
```

```
<!ELEMENT figure (img)>
```

```
<!ATTLIST figure id ID #IMPLIED
                 num CDATA #REQUIRED >
```

```
<!--
```

the solution to the alleged problem that the invention purports to solve.

Recommended id = 'abss'

```
-->
```

```
<!ELEMENT abst-solution (p+)>
```

```

<!ATTLIST abst-solution id ID #IMPLIED >
<!--
    the alleged problem that the invention purports to solve
    Recommended id = 'absp'
-->
<!ELEMENT abst-problem (p+)>

<!ATTLIST abst-problem id ID #IMPLIED >
<!--
defines the matter for which protection is sought
    See PCT Rule 6:
    6.1.a: 'the number of claims shall be reasonable in
consideration
            of what is being claimed.'
    6.1.b: 'if there are several claims, they shall be numbered
            consecutively in Arabic numerals.'

    Recommended id = c01, c02, etc.;
            num 001, 002, etc.
-->
<!ELEMENT claim (claim-text+)>

<!ATTLIST claim id ID #IMPLIED
              num CDATA #REQUIRED >
<!--
    reference to a claim
-->
<!ELEMENT claim-ref (#PCDATA)>

<!ATTLIST claim-ref idref IDREFS #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".

    Recommended id = 'seqt'
-->
<!ELEMENT sequence-list-text (heading* , p+)+>

<!ATTLIST sequence-list-text id ID #IMPLIED >
<!--
    Article 33(4): "For purposes of the international preliminary
examination, a claimed invention shall be considered
industrially
    applicable if, according to its nature, it can be made or used
(in the technological sense) in any kind of industry.

    Recommended id = 'inap'
-->
<!ELEMENT industrial-applicability (heading* , p+)+>

<!ATTLIST industrial-applicability id ID #IMPLIED >

```

```

<!--
  PCT Rule 5.1(a)(vi): "The description shall...indicate
explicitly,
  when it is not obvious from the description or nature of the
  invention, the way in which the invention is capable of
exploitation
  in industry and the way in which it can be made and used..."

  Recommended id = 'mode'
-->
<!ELEMENT mode-for-invention (heading* , p+)+>

<!ATTLIST mode-for-invention  id          ID          #IMPLIED
                               mode-num  CDATA       #IMPLIED >
<!--
  the best mode contemplated by the applicant for carrying out
the
  invention claimed.

  Recommended id = 'bmod'
-->
<!ELEMENT best-mode (heading* , p+)+>

<!ATTLIST best-mode  id ID  #IMPLIED >
<!--
  disclosure of the invention with sub-headings:
    technical problem;
    technical solution;
    advantageous effects (of the invention);

  Recommended id = 'disc'
-->
<!ELEMENT disclosure ((tech-problem | tech-solution |
advantageous-effects)*
                    | (heading* , p+)+)>

<!ATTLIST disclosure  id ID  #IMPLIED >
<!--
  advantageous effects of the invention (PCT Rule 5.1(a)(iii))

  Recommended id = 'adve'
-->
<!ELEMENT advantageous-effects (heading* , p+)+>

<!ATTLIST advantageous-effects  id ID  #IMPLIED >
<!--
  the solution to the problem that the invention purports to
solve.
  (PCT Rule 5.1(a)(iii))
-->
<!ELEMENT tech-solution (heading* , p+)+>

<!ATTLIST tech-solution  id ID  #IMPLIED >
<!--
  the problem the invention purports to solve (Rule 5.1(a)(iii))
-->
<!ELEMENT tech-problem (heading* , p+)+>

<!ATTLIST tech-problem  id ID  #IMPLIED >
<!--

```

```

    Brief description of the drawings (Rule 5.1(a)(iv)
    Recommended id = 'desd'
-->
<!ELEMENT description-of-drawings (heading* , p+)+>

<!ATTLIST description-of-drawings  id ID      #IMPLIED >
<!--
    Background art, background of the invention.
    Recommended id = 'bart'
-->
<!ELEMENT background-art (heading* , p+)+>

<!ATTLIST background-art  id ID      #IMPLIED >
<!--
    PCT Rule 5.1:
    (a) The description shall first state the title of the
    invention
        as appearing in the request and shall:
        (i) specify the technical field to which the invention
    relates
-->
<!ELEMENT technical-field (heading* , p+)+>

<!ATTLIST technical-field  id ID      #IMPLIED >
<!--
    paragraph
        Recommended id = p01, p02, etc.
        num = 001, 002, etc.
-->
<!ELEMENT p (#PCDATA | b | i | u | sup | sub | smallcaps | br |
dl | ul
            | ol | figref | patcit | nplcit | bio-deposit |
crossref | img
            | chemistry | maths | tables)*>

<!ATTLIST p  id ID      #IMPLIED
            num CDATA  #REQUIRED >
<!--
    TABLES
    This is image data or coded according to OASIS Exchange model
    with modified cell 'entry' content

    Recommended id = tabl01, tabl02, etc.
-->
<!ELEMENT tables (img | table)>

<!ATTLIST tables  id ID      #IMPLIED
                num CDATA  #REQUIRED >
<!--
    a reference to a figure; e.g.,
    "...as shown in <figref idref="f01">figure
<b>1</b></figref>..."
-->
<!ELEMENT figref (#PCDATA | b | i | u | sup | sub | smallcaps)*>

<!ATTLIST figref  idref IDREFS #IMPLIED
                num CDATA  #IMPLIED >
<!--
    definition list

```

```

    Recommended id = dlis01, dlis02, etc.
-->
<!ELEMENT dl (dt , dd)+>

<!ATTLIST dl  tsize  NMTOKEN  #IMPLIED
              compact (compact ) #IMPLIED
              id     ID       #IMPLIED >
<!--
    term to be defined

    Recommended id = dtrm01, dtrm02, etc.
-->
<!ELEMENT dt (#PCDATA | b | i | u | sup | sub | smallcaps)*>

<!ATTLIST dt  id ID  #IMPLIED >
<!--
    Unordered Lists
        list-style may be empty for lists with no bullet or other
symbol
        default list-style is 'bullets'
        Recommended id = ulis01, ulis02, etc.
-->
<!ELEMENT ul (li+)>

<!ATTLIST ul  id          ID          #IMPLIED
              list-style  (bullet | dash | none )
'bullet'
              compact      (compact ) #IMPLIED >
<!--
    list item
    Recommended id = list01, list02, etc.
-->
<!ELEMENT li (#PCDATA | b | i | u | sup | sub | smallcaps | br |
patcit
              | nplcit | bio-deposit | crossref | img | dl | ul |
ol
              | chemistry | maths)*>

<!ATTLIST li  id ID  #IMPLIED >
<!--
    MATHEMATICS
    This is image data or coded according to mathml, version 2

    Recommended id = math01, math02, etc.
-->
<!ELEMENT maths (img | math)>

<!ATTLIST maths  id  ID  #IMPLIED
                 num CDATA #REQUIRED >
<!--
    chemistry
    Chemical formulae, ring structures, Markush structures, etc.
    For now treat as image data.
    Depending on industry support we may use, e.g., chemML, CML
later

    Recommended id = chem01, chem02, etc
-->
<!ELEMENT chemistry (img)>

```

```

<!ATTLIST chemistry id ID #IMPLIED
                    num CDATA #REQUIRED >
<!--
  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.
    third level - i. ii. iii.;
  These are stylesheet issues but are recommended for
  consistency.

  Recommended id = olis01, olis02, etc.
-->
<!ELEMENT ol (li+)>

<!ATTLIST ol id ID #IMPLIED
            compact (compact) #IMPLIED >
<!--
  image data
  image is used for any kind of image: art work, figures,
  complex work units (math, tables, chemistry), etc.

  Recommended:
    id = i01, i02, etc.
    he, wi = "11" - milimeters - height, width;
    file = file name,location;
    label - not used;
    alt = alternate text if image not shown;
    img-content = drawing is the default;
    img-format = common will be tiff, st33 and st35 in for
backward
                    compatilby and, later, publication.
-->
<!ELEMENT img EMPTY>

<!ATTLIST img id ID #IMPLIED
             he NMTOKEN #REQUIRED
             wi NMTOKEN #REQUIRED
             file CDATA #REQUIRED
             alt CDATA #IMPLIED
             img-content (drawing | photograph |
character
                        | dna | undefined )
             'drawing'
             img-format (jpg | tif | st33 | st35 )
#REQUIRED >
<!--
  Cross reference to any other element with an identifier (id)
-->
<!ELEMENT crossref (#PCDATA)>

<!ATTLIST crossref idref CDATA #REQUIRED >
<!--
  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

```

```

    Recommended id = biod01, biod02, etc.
-->
<!ELEMENT bio-deposit (depository , bio-accno , date? , term? ,
dtext?)>

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

<!--

    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)

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

<!ATTLIST nplcit  id      ID      #IMPLIED
                  num     CDATA   #REQUIRED
                  npl-type CDATA   #IMPLIED
                  medium   CDATA   #IMPLIED
                  file     CDATA   #IMPLIED
                  url      CDATA   #IMPLIED >

<!--

```

```

    Reference number (general); for the EPO this is the XP number
-->
<!ELEMENT refno (#PCDATA)>

<!ATTLIST refno id ID #IMPLIED >

<!ELEMENT author (((name | (prefix? , last-name , first-name ,
middle-name?
, suffix? , iid? , role? , orgname? ,
department?
, synonym*)) , registered-number?) |
addressbook)>

<!ATTLIST author id ID #IMPLIED >
<!--
    ADDRESSBOOK GROUP:
    Holds name and contact information for
    individuals/organizations

    The LANG attribute is REQUIRED for certain document types,
    e.g.
    the JPO PCT Request where names and addresses may be repeated
    in
    two different languages. If no structure possible use text.
-->
<!ELEMENT addressbook (((name | (prefix? , last-name , first-
name
, middle-name? , suffix? , iid? , role?
, orgname?
, department? , synonym*)) , registered-
number?)
, address , phone* , fax* , email* ,
url* , ead*
, dtext?) | text)>

<!ATTLIST addressbook lang CDATA #IMPLIED >
<!--
    PATENT CITATIONS:
    Patent Citation within abstract, description or claims.
    For patent citations within Search Report see Search Report
    DTD
    Notes:
    Tags arranged according to WIPO ST.14 order.
    This can be free text data without any structure (text).

    Example:
    <patcit id="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

    Attributes (recommended):
    id - pcit01, pcit02, etc.

```

```

        num - 001, 002, 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
-->
<!ELEMENT patcit (text | (document-id , rel-passage*))>

<!ATTLIST patcit  id      ID      #IMPLIED
                  dnum   CDATA   #IMPLIED
                  file   CDATA   #IMPLIED
                  url    CDATA   #IMPLIED
                  num    CDATA   #REQUIRED >

<!--
    Document identification refers to patents (and patent
    applications) only.  See WIPO ST.14
-->
<!ELEMENT document-id (country , doc-number , kind? , name? ,
date?)>

<!ATTLIST document-id  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  name-type          (legal | natural ) #IMPLIED
>
<!--
    heading text; see Rule 5.  Recommended id = h01, h02, etc.
-->
<!ELEMENT heading (#PCDATA | b | i | u | sup | sub |
smallcaps)*>

<!ATTLIST heading  level          (1 | 2 | 3 ) #IMPLIED
                    id            ID      #IMPLIED >
<!--
    Title of the Invention: preferably two to seven words when
    in English or translated into English and precise. (Rule 4.3)

    Recommended id = 'invt'
-->
<!ELEMENT invention-title (#PCDATA | b | i | u | sup | sub)*>

<!ATTLIST invention-title  id      ID      #IMPLIED
                          lang   CDATA   #IMPLIED >
<!--
    underscore: style - single is default
-->
<!ELEMENT u (#PCDATA | b | i | smallcaps)*>

<!ATTLIST u  style          (single | double | dash | dots )
'single' >
<!--
    doc-page - DOCument or PAGE

    This is primarily to be used when data for the whole or
    major sections of an application are in image format
    OR other formats such as pdf. Page range attributes are

```

given when required pp- page range ppf - first page  
 ppl - last page (for pdf). The 'img' may also be used  
 for complete pages, eg. in drawings

Recommended id = docp01, docp02, etc.

```
-->
<!ELEMENT doc-page EMPTY>

<!ATTLIST doc-page  id      ID          #IMPLIED
                    he      NMTOKEN   #REQUIRED
                    wi      NMTOKEN   #REQUIRED
                    type    (jpg | pdf | tif )
#REQUIRED
                    alt     CDATA      #IMPLIED
                    pp      CDATA      #IMPLIED
                    ppf     CDATA      #IMPLIED
                    ppl     CDATA      #IMPLIED
                    file    CDATA      #REQUIRED
                    color   (color | bw ) #IMPLIED >

<!--
  drawings: PCT Article 7 / Rule 7
  Drawings shall be required when they are necessary for
  the understanding of the invention.

  Recommended id = 'draw'
-->
<!ELEMENT drawings (doc-page+ | figure+)>

<!ATTLIST drawings id      CDATA #IMPLIED
                    lang    CDATA #IMPLIED
                    status  CDATA #IMPLIED>

<!--
  ABSTRACT: PCT Rule 8
  A concise summary of the disclosure, 50-150 words.

  Recommended id = 'abst'
-->
<!ELEMENT abstract (doc-page+ | (abst-problem , abst-solution) |
p+)>

<!ATTLIST abstract id      CDATA #IMPLIED
                    lang    CDATA #IMPLIED
                    status  CDATA #IMPLIED>

<!--
  claims:
  the claims shall define the matter sought for patent and be
  supported by the description.

  Recommended id = 'claim'
-->
<!ELEMENT claims (doc-page+ | claim+)>

<!ATTLIST claims id      CDATA #IMPLIED
                  lang    CDATA #IMPLIED
                  status  CDATA #IMPLIED>

<!--
  The text of the claim; also used for for sub-para indentation
-->
```

```

<!ELEMENT claim-text (#PCDATA | claim-text | claim-ref | b | i |
u | sup
| sub | smallcaps | br | crossref | img |
chemistry
| maths | tables)*>

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

<!--
description:
The description must disclose the invention in a manner
sufficiently clear and complete for it to be carried out
by a person skilled in the art (Rule 5).

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

<!ATTLIST description id CDATA #IMPLIED
lang CDATA #IMPLIED
status CDATA #IMPLIED>

<!--
definition description
-->
<!ELEMENT dd (#PCDATA | b | i | u | sup | sub | smallcaps | br |
patcit
| nplcit | bio-deposit | crossref | img | ul | ol |
chemistry
| maths)*>

<!--
identifies the period of time during which the depository must
be able to furnish samples of the biological material.
-->
<!ELEMENT term (#PCDATA)>

<!--
biological accession number: the identification assigned
to the biological material by the depository
-->
<!ELEMENT bio-accno (#PCDATA)>

<!--
information regarding the facility storing the biological
deposit
-->
<!ELEMENT depository (#PCDATA | address)*>

<!--
other citations - free form

```

```

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

<!--
  online citation
    Revised according to ISO-690-2 - Electronic documents and
  parts thereof.
    Please refer to this standard for definitions and
  examples.
    See: http://www.nlc-bnc.ca/iso/tc46sc9/standard/690-2e.htm#Contents
    The tagging in fact is a mixture of article and book tags
    together with specific electronic source tags
    'Online' is taken to mean any kind of electronic
  documentation:
    databases, internet, CD-Roms, DVD, email, etc

  EXAMPLES:;

    Kirk-Othmer Encyclopedia of Chemical Technology [online].
    3rd ed. New York : John Wiley, 1984 [cited 3 January
  1990].
    Available from: DIALOG Information Services, Palo Alto
  (Calif.).

    <nplcit id="ncit1" num="0001" type="E" medium="online">
    <online>
    <online-title>Kirk-Othmer Encyclopedia of Chemical
  Technology
    </online-title>
    <edition>3rd ed.</edition>
    <imprint><address><text>New York</text>
    </address>
    <name>John Wiley</name>
    <pubdate>19840000</pubdate></imprint>
    <avail>dialog information services, palo alto
  (calif.)</avail>
    <datecit><date>19900103</date></datecit>
    </online>
    </nplcit>

    * Article on Internet:

    Clark, Carol. On the Threshold of a Brave New World.
    In Blueprint of the Body [online]. CNN.com, 2000. [cited
  24 August 2000;
    10:25 EST]. In-depth specials.
    Available from:
    [http://www.cnn.com/SPECIALS/2000/genome/story/overview/]

    <nplcit id="ncit1" num="0002" type="E" medium="online">
    <online>
    <author><name>Clark, Carol</name></author>
    <online-title>On the Threshold of a Brave New
  World</online-title>
    <imprint><name>CNN.com, 2000</name></imprint>
    <series><text>In-depth specials</text></series>

    <avail>http://www.cnn.com/SPECIALS/2000/genome/story/</avail>

```

```

        <datecit><date>20000824; 10:25 est</date></datecit>
    </online>
</nplcit>

    * Personal communication (e-mail)

    Thacker, Jane. MPEG-21 project stream on digital item
    identification [online].
    Message to: [iso.tc46.sc9@nlc-bnc.ca]. 3 October 2000;
    13:33 EST [cited 6
    October 2000; 13:10 EST].
    Message-ID: [002f01c02d60$051a64a0$22a2580c@vaio].
    Personal communication.

    <nplcit id="ncit3" num="0003" type="E" medium="online">
    <online>
    <author><name>Thacker, Jane</name></author>
    <online-title>MPEG-21 project stream on digital item
    identification
    </online-title>
    <subname><name>Message to: <iso.tc46.sc9@nlc-bnc.ca>
    </name></subname>
    <pubdate>3 October 2000; 13:33 EST</pubdate>
    <notes>Personal communication</notes>
    <avail>Message-ID: <002f01c02d60$051a64a0$22a2580c@vaio>
    </avail>
    <datecit><date>6 october 2000; 13:10 EST</date></datecit>
    </online>
    </nplcit>
-->
<!-- ELEMENT online (text | (author* , online-title* , hosttitle? ,
subname?
, edition? , (serial | book)? , imprint? ,
pubdate?
, history? , series? , hostno? , location? ,
notes?
, avail , class* , keyword* , cpyrt? , issn? ,
isbn?
, datecit? , srchterm* , srchdate? , refno*))>

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

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

<!--
    date cited - date on which the citation was cited.
    May be different from srchdate below
-->
<!-- ELEMENT datecit (date)>

<!--
    Availability and access - REQUIRED
    use for URL, online database, ftp address, email, etc.;

```

e.g. Available from Internet: <http://www.epoline.org>  
 Available from DIALOG Information Systems, Palo Alto  
 (Calif.)

```

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

<!--
  numeration within host document
-->
<!ELEMENT hostno (#PCDATA)>

<!--
  history of the article (not serial)
-->
<!ELEMENT history (text | (received | accepted | revised |
misc))>

<!--
  miscellaneous information relating to the history of the
  article;
  see ISO 12083
-->
<!ELEMENT misc (#PCDATA | date)*>

<!--
  date article was revised
-->
<!ELEMENT revised (date)>

<!--
  date article was accepted
-->
<!ELEMENT accepted (date)>

<!--
  date article was received
-->
<!ELEMENT received (date)>

<!--
  title of the host document/database
-->
<!ELEMENT hosttitle (#PCDATA)>

<!--
  the title of the electronic resource
-->
<!ELEMENT online-title (#PCDATA)>

<!--
  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.  
 [XPnnnnnnnnnn].

```
<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*))>
```

```
<!--
Article unique ID - assigned by a publisher to an article
-->
<!ELEMENT artid (#PCDATA)>
```

```
<!--
book citation
In the order specified by WIPO ST.14 and ISO 690
and AACR2 rules for layout
```

WALTON, Herrmann. Microwave quantum theory.  
 London : Sweet and Maxwell, 1973. ISBN 0123456789.  
 Vol.2, p. 138 to 192.

```
<nplcit id="ncit12" num="0013" type="b">
<book>
<author>
<name>WALTON, Herrman</name></author>
<book-title>Microwave quantum theory</book-title>
<imprint><address><text>London</text></address>
<name>Sweet and Maxwell</name>
<pubdate>19730000</pubdate></imprint>
<location><pp>138 to 192</pp></location>
<isbn>0-1234-568-9</isbn>
</book>
```

```

    </nplcit>
-->
<!ELEMENT book (text | (author* , (book-title+ | conference) ,
(subtitle?
    , subname* , edition? , imprint? , descrip? ,
series?
    , absno? , location* , isbn* , pubid? , vid? ,
bookno?
    , notes? , class* , keyword* , cpyrt? , refno*)))>

<!--
    Keyword; e.g., from a Thesaurus or class. scheme
-->
<!ELEMENT keyword (#PCDATA)>

<!--
    classification code; e.g. ipc, dewey etc.
-->
<!ELEMENT class (#PCDATA)>

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

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

<!--
    referenced line within cited work
-->
<!ELEMENT line (#PCDATA | linef | line1)*>

<!--
    cited document line, last
-->
<!ELEMENT line1 (#PCDATA)>

<!--
    cited document line, first
-->
<!ELEMENT linef (#PCDATA)>

<!--
    referenced paragraph within cited work
-->
<!ELEMENT para (#PCDATA | paraf | paral)*>

<!--
    cited paragraph, last
-->
<!ELEMENT paral (#PCDATA)>

<!--
    cited paragraph, first

```

```
-->
<!ELEMENT paraf (#PCDATA)>

<!--
  cited document column numbers
-->
<!ELEMENT column (#PCDATA | colf | coll)*>

<!--
  cited document column, last
-->
<!ELEMENT coll (#PCDATA)>

<!--
  cited document column, first
-->
<!ELEMENT colf (#PCDATA)>

<!--
  cited document page numbers
-->
<!ELEMENT pp (#PCDATA | ppf | ppl)*>

<!--
  cited document page, last
-->
<!ELEMENT ppl (#PCDATA)>

<!--
  cited document page , first
-->
<!ELEMENT ppf (#PCDATA)>

<!--
  chapter, e.g., in a book. Example: Chapter 2
-->
<!ELEMENT chapter (#PCDATA)>

<!--
  serial section
-->
<!ELEMENT sersect (#PCDATA)>

<!--
  part within a serial
-->
<!ELEMENT serpart (#PCDATA)>

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

<!--
  series statement
-->
<!ELEMENT series (text | (mst , msn? , issn?))>

<!--
  monographic series number
```

```

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

<!--
  monographic series title
-->
<!ELEMENT mst (#PCDATA)>

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

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

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

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

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

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

<!--
  the title of the cited book
-->
<!ELEMENT book-title (#PCDATA)>

<!--
  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?)>

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

<!--
  issue number
-->
<!ELEMENT ino (#PCDATA)>

<!--
  Volume id/number
-->
<!ELEMENT vid (#PCDATA)>

<!--
  Publisher's unique id
-->
<!ELEMENT pubid (#PCDATA)>

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

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

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

<!--
  Physical description - generally NOT used in citations in
pats.
  eg. v., 27cm
-->
<!ELEMENT descrip (#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*))>

<!--
  publication date used in npl citations
```

```

-->
<!ELEMENT pubdate (#PCDATA | sdate | edate | time)*>

<!--
    time; format HHMM
-->
<!ELEMENT time (#PCDATA)>

<!--
    end date used in pubdate
-->
<!ELEMENT edate (#PCDATA)>

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

<!--
    issue designation; e.g.: Annual, 1971-, 1890-1972
-->
<!ELEMENT issue (#PCDATA)>

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

<!--
    serial title
-->
<!ELEMENT sertitle (#PCDATA)>

<!--
    Subordinate responsibility, e.g. editor, translator, etc.
-->
<!ELEMENT subname (((name | (prefix? , last-name , first-name
                        , middle-name? , suffix? , iid? , role? ,
orgname?
                        , department? , synonym*)) , registered-
number?)
                  | addressbook)>

<!--
    article title
-->
<!ELEMENT atl (#PCDATA)>

<!--    author
        Prime responsibility for the work
        there is no distinguishing between personal and corporate
        authors
        <author> followed by name or addressbook information
        use the ID attribute if, for example, there is a need to
        distinguish between multiple authors. Can also include
        affiliation details

        Recommended id = auth01, auth02, etc.
-->

```

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

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

<!--
  Universal Resource Locator; e.g. www.wipo.int
-->
<!ELEMENT url (#PCDATA)>

<!--
  email address
-->
<!ELEMENT email (#PCDATA)>

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

<!--
  telephone number
-->
<!ELEMENT phone (#PCDATA)>

<!--
  address components:
  Address formats differ from country to country
  If no structure possible use text
-->
<!ELEMENT address ((address-1? , address-2? , address-3? ,
mailcode?
, pobox? , room? , address-floor? , building?
, street?
, city? , county? , state? , postcode ,
country) | text)>

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

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

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

<!--
  City or town name
-->
```

```
<!ELEMENT city (#PCDATA)>

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

<!--
  building information in address, e.g., Hoffman building
-->
<!ELEMENT building (#PCDATA)>

<!--
  address floor, e.g., 10th
-->
<!ELEMENT address-floor (#PCDATA)>

<!--
  address room; e.g., Room 55B
-->
<!ELEMENT room (#PCDATA)>

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

<!--
  organizational mail code
-->
<!ELEMENT mailcode (#PCDATA)>

<!--
  Address, third line
-->
<!ELEMENT address-3 (#PCDATA)>

<!--
  Address, second line
-->
<!ELEMENT address-2 (#PCDATA)>

<!--
  Address, first line
-->
<!ELEMENT address-1 (#PCDATA)>

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

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

<!--
  department, division, section, etc. name
```

```
-->
<!ELEMENT department (#PCDATA)>

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

<!--
  role, e.g. President, Chairman, etc.
-->
<!ELEMENT role (#PCDATA)>

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

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

<!--
  middle name(s) or initial(s)
-->
<!ELEMENT middle-name (#PCDATA)>

<!--
  First or given name(s), initial(s)
-->
<!ELEMENT first-name (#PCDATA)>

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

<!--
  title: e.g., Mr., Mrs., Dr. etc
-->
<!ELEMENT prefix (#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?)+)>

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

<!ELEMENT category (#PCDATA)>

<!--
  passage within the cited patent literature
-->
```

```
<!ELEMENT passage (#PCDATA)>

<!--
  date: components of a date.  Format: YYYYMMDD
-->
<!ELEMENT date (#PCDATA)>

<!--
  document kind code; e.g. A1
-->
<!ELEMENT kind (#PCDATA)>

<!--
  the number of the referenced patent (or application) document
-->
<!ELEMENT doc-number (#PCDATA)>

<!--
  Country: use ST.3 country code, e.g. DE, FR, GB, NL, etc.
  Also includes EP, WO
-->
<!ELEMENT country (#PCDATA)>

<!--
  if no structure is possible, enter text (without markup)
-->
<!ELEMENT text (#PCDATA)>

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

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

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

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

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

<!-- End of Document -->
```