

Open Patent Services : OPS webservice interface

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Introduction

This page describes the current webservice interface focussing on the incoming and outgoing SOAP messages.

The current version of the webservice provides the following operations:

- [BiblioRetrieval](#)
- [BiblioSearch](#)
- [ClaimsRetrieval](#)
- [DescriptionRetrieval](#)
- [DocumentInquiry](#)
- [DocumentRetrieval](#)
- [EquivalentsInquiry](#)
- [FamilyRetrieval](#)
- [FamilyAndBiblioRetrieval](#)
- [FamilyAndLegalRetrieval](#)
- [FamilyAndLegalAndBiblioRetrieval](#)
- [FulltextInquiry](#)
- [LegalRetrieval](#)
- [LegalAndBiblioRetrieval](#)

Referring to the schema the requests and responses are based on, keep the following facts in mind:

- The Schema is based on the so called standard36 ([ST.36](#))
- The Schema is quite verbose. Not every information defined can be obtained from the current web service.
- Requests / responses, which are valid according to the schema, are not necessarily accepted by the server, as they may contain semantical errors.

Some commands described in the following paragraphs need a publication reference. This publication reference is connected with a special patent document. The following part of a schema defines the publication reference:

```
<complexType name="publication-referenceType">
  <sequence>
    <element name="document-id">
      <annotation>
        <documentation>Refers to patents (and patent applications) only; see WIPO
ST.14</documentation>
      </annotation>
    <complexType>
      <sequence>
        <element name="country" type="exch:countryType" minOccurs="0"/>
        <element name="doc-number" type="exch:doc-numberType"/>
        <element name="kind" type="exch:kindType" minOccurs="0"/>
        <element name="name" type="exch:nameType" minOccurs="0"/>
        <element name="date" type="exch:ICE-date-type" minOccurs="0"/>
      </sequence>
    </complexType>
  </sequence>
</complexType>
```

```
        </sequence>
        <attribute name="lang" type="language"/>
    </complexType>
</element>
</sequence>
<attribute name="id" type="ID"/>
<attribute name="data-format" type="string"/>
<attribute name="status" type="string"/>
<attribute name="sequence" type="string"/>
</complexType>
```

There are additional formats deriving from standard36: the [ST36 DocDB exchange format](#) (exch) and the [ST36 DocDB fulltext exchange format](#) (fulltext). These formats define the requests and responses more precisely than standard36 does.

Specifying requests for patent documents

There are several possibilities to specify the desired result. These possibilities refer to different properties of a patent. The following elements are available:

- exc:publication-reference
- exc:application-reference
- exc:priority-claim
- ops:publication-reference
- ops:application-reference
- ops:priority-claim
- ops:eql-query
- ops:document-retrieval

However, not every element in the list above can be used in every request type. There are hints in the following paragraphs to make clear which element is accepted. These elements define just a frame for a request. See paragraph [Docdb and epodoc format](#) for further information.

Results

All results have a similar structure. The result is embedded in a SOAP message. Then every result has one 'ops-world-patent-data' element. This element is a container for the retrieved data. In addition, there can be any number of 'meta' elements containing meta information. Currently, the element is used to store the elapsed time of the request. Furthermore, the response contains the request. How the following structure looks like depends on the single results / result types.

Docdb and epodoc format

Most of the commands described in the following paragraphs need one of the following keys: publication reference / application reference / priority claim. These keys are connected with a special patent document. There are two formats of the keys: 'docdb' and 'epodoc'. In general both of the formats are supported. A typical SOAP request using a publication reference in 'docdb' format looks like follows:

```

<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ops="http://ops.epo.org"
xmlns:exc="http://www.epo.org/exchange">
  <soapenv:Header/>
  <soapenv:Body>
    <ops:biblio-retrieval>
      <exc:publication-reference data-format="docdb">
        <document-id>
          <country>EP</country>
          <doc-number>1000000</doc-number>
          <kind>A1</kind>
        </document-id>
      </exc:publication-reference>
    </ops:biblio-retrieval>
  </soapenv:Body>
</soapenv:Envelope>

```

The document-id, an element of the publication reference, consists at least of a country code (in this case EP for Europe), a document number (in this case 1000000) and a kind code (in this case A1).

A typical SOAP request using a document key in 'epodoc' format looks like follows:

```

<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ops="http://ops.epo.org"
xmlns:exc="http://www.epo.org/exchange">
  <soapenv:Header/>
  <soapenv:Body>
    <ops:biblio-retrieval>
      <exc:publication-reference data-format="epodoc">
        <document-id>
          <doc-number>EP1000000</doc-number>
        </document-id>
      </exc:publication-reference>
    </ops:biblio-retrieval>
  </soapenv:Body>
</soapenv:Envelope>

```

The document-id, an element of the publication reference, consists at least of a composition of country code and document number (in this case EP1000000).

Error handling

In contrast to the previous version, there are SOAP faults in stead of errors. SOAP faults are separated into two categories: client faults and server faults. Client faults occur if the input is not in a valid format or contains semantical errors. Server faults are caused by internal server errors. The following code snippet shows an input which causes a client fault:

```

<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ops="http://ops.epo.org"
xmlns:exc="http://www.epo.org/exchange">
  <soapenv:Header/>
  <soapenv:Body>
    <ops:biblio-retrieval>
      <exc:publication-reference data-format="epodoc">
        <document-id>
          <country>EP</country>
          <doc-number>1000000</doc-number>
          <kind>A1</kind>
        </document-id>
      </exc:publication-reference>
    </ops:biblio-retrieval>
  </soapenv:Body>
</soapenv:Envelope>

```

```

        </document-id>
    </exc:publication-reference>
</ops:biblio-retrieval>
</soapenv:Body>
</soapenv:Envelope>

```

The publication reference is defined as 'epodoc' format although the format is given in 'docdb'. So the following SOAP fault occurs:

```

<SOAP-ENV:Envelope
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header/>
  <SOAP-ENV:Body>
    <SOAP-ENV:Fault>
      <faultcode>SOAP-ENV:Client</faultcode>
      <faultstring xml:lang="en">The request was invalid.</faultstring>
    </SOAP-ENV:Fault>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

The given SOAP fault consists of a fault code (in this case 'SOAP-ENV:Client') and a fault string (in this case 'The request was invalid.')

BiblioRetrieval

The BiblioRetrieval command retrieves bibliographic data. Information about patent number, inventor, applicant, date and an abstract of a patent is given. Moreover, European and international classifications are given. Classification in this case means that an invention refers to special groups (e.g. electrical devices). In addition the application number and priority number can be retrieved. As mentioned in the following info box, it is possible to use an empty kind code. This is only supported for publication reference in docdb format.



Accepted data format

exc:publication-reference, exc:application-reference, exc:priority-claim

ops:publication-reference, ops:application-reference, ops:priority-claim

It is also possible to use wildcards in the kind code. Wildcard in this case are: 'any' or blank. If the kind code is empty, the biblio retrieval will behave in the same way as the wildcard 'any' is used.

As an example, a BiblioRetrieval in 'epodoc' format.

```

<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ops="http://ops.epo.org"
xmlns:exc="http://www.epo.org/exchange">
  <soapenv:Header/>
  <soapenv:Body>
    <ops:biblio-retrieval>
      <exc:publication-reference data-format="epodoc">
        <document-id>
          <doc-number>EP1000000</doc-number>
        </document-id>
      </exc:publication-reference>
    </ops:biblio-retrieval>
  </soapenv:Body>
</soapenv:Envelope>

```

The corresponding response may look like follows:

```
<SOAP-ENV:Envelope
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header/>
  <SOAP-ENV:Body>
    <ops:world-patent-data xmlns:ops="http://ops.epo.org">
      <ops:meta name="elapsed-time" value="325"/>
      <exch:exchange-documents xmlns:exch="http://www.epo.org/exchange">
        <exch:exchange-document country="EP" doc-number="1000000" family-id="19768124"
kind="A1"
system="ops.espacenet.com">
          <exch:bibliographic-data>
            <exch:publication-reference data-format="docdb">
              <document-id>
                <country>EP</country>
                <doc-number>1000000</doc-number>
                <kind>A1</kind>
                <date>20000517</date>
              </document-id>
            </exch:publication-reference>
            <exch:publication-reference data-format="epodoc">
              <document-id>
                <doc-number>EP1000000</doc-number>
                <date>20000517</date>
              </document-id>
            </exch:publication-reference>
            <exch:classification-ipc>
              <text>B28B5/02</text>
              <text>B28B1/29</text>
              <text>B28B7/00</text>
            </exch:classification-ipc>
            <exch:classifications-ipcr>
              <classification-ipcr sequence="1">
                <text>B28B 1/ 00 C I</text>
              </classification-ipcr>
              <classification-ipcr sequence="2">
                <text>B28B 5/ 00 C I</text>
              </classification-ipcr>
              <classification-ipcr sequence="3">
                <text>B28B 7/ 00 C I</text>
              </classification-ipcr>
              <classification-ipcr sequence="4">
                <text>H02P 6/ 08 C I</text>
              </classification-ipcr>
              <classification-ipcr sequence="5">
                <text>B28B 1/ 29 A I</text>
              </classification-ipcr>
              <classification-ipcr sequence="6">
                <text>B28B 5/ 02 A I</text>
              </classification-ipcr>
              <classification-ipcr sequence="7">
                <text>B28B 7/ 00 A I</text>
              </classification-ipcr>
              <classification-ipcr sequence="8">
                <text>H02P 6/ 08 A I</text>
              </classification-ipcr>
            </exch:classifications-ipcr>
            <exch:classification-ecla>
              <classification-symbol>H02P6/08</classification-symbol>
            </exch:classification-ecla>
            <exch:classification-ecla>
              <classification-symbol>B28B1/29</classification-symbol>
            </exch:classification-ecla>
            <exch:classification-ecla>
              <classification-symbol>B28B5/02B2</classification-symbol>
            </exch:classification-ecla>
            <exch:classification-ecla>
              <classification-symbol>B28B7/00F</classification-symbol>
            </exch:classification-ecla>
            <exch:classification-ecla>
              <classification-symbol>G01N21/64H</classification-symbol>
            </exch:classification-ecla>
            <exch:classification-ecla>
              <classification-symbol>G01N21/64P2</classification-symbol>
            </exch:classification-ecla>
          </exch:bibliographic-data>
        </exch:exchange-document>
      </exch:exchange-documents>
    </ops:world-patent-data>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

```

</exch:classification-ecla>
<exch:application-reference data-format="epodoc" sequence="1">
  <document-id>
    <doc-number>EP19990203729</doc-number>
    <date>19991108</date>
  </document-id>
</exch:application-reference>
<exch:application-reference data-format="original" sequence="1">
  <document-id>
    <doc-number>99203729</doc-number>
  </document-id>
</exch:application-reference>
<exch:priority-claims>
  <exch:priority-claim data-format="epodoc" sequence="1">
    <document-id>
      <doc-number>NL19981010536</doc-number>
      <date>19981112</date>
    </document-id>
  </exch:priority-claim>
  <exch:priority-claim data-format="original" sequence="1">
    <document-id>
      <doc-number>1010536</doc-number>
    </document-id>
  </exch:priority-claim>
</exch:priority-claims>
<exch:parties>
  <exch:applicants>
    <exch:applicant data-format="epodoc" sequence="1">
      <exch:applicant-name>
        <name>BOER BEHEER NIJMEGEN BV DE [NL]</name>
      </exch:applicant-name>
    </exch:applicant>
  </exch:applicants>
  <exch:inventors>
    <exch:inventor data-format="epodoc" sequence="1">
      <exch:inventor-name>
        <name>KOSMAN WILHELMUS JACOBUS MARIA [NL]</name>
      </exch:inventor-name>
    </exch:inventor>
  </exch:inventors>
</exch:parties>
<exch:invention-title lang="de">Vorrichtung zur Herstellung von
Steinformlingen für die
Ziegelindustrie</exch:invention-title>
<exch:invention-title lang="fr">Dispositif pour la fabrication de briques
crues utilisées dans
l'industrie manufacturière des briques</exch:invention-title>
<exch:invention-title lang="en">Apparatus for manufacturing green bricks for
the brick manufacturing
industry</exch:invention-title>
<exch:references-cited>
  <exch:citation sequence="1">
    <patcit>
      <text>EP0680812 A1</text>
    </patcit>
  </exch:citation>
  <exch:citation sequence="2">
    <patcit>
      <text>NL9400663 A</text>
    </patcit>
  </exch:citation>
  <exch:citation sequence="3">
    <patcit>
      <text>DE3546191 A1</text>
    </patcit>
  </exch:citation>
</exch:references-cited>
</exch:bibliographic-data>
<exch:abstract>
  <exch:p>The invention relates to an apparatus (1) for manufacturing green
bricks from clay for the brick
manufacturing industry, comprising a circulating conveyor (3) carrying mould
containers combined to mould
container parts (4), a reservoir (5) for clay arranged above the mould
containers, means
for carrying clay
out of the reservoir (5) into the mould containers, means (9) for pressing
and trimming clay
in the mould
containers, means (11) for supplying and placing take-off plates for the

```

```

green bricks (13) and means for
    discharging green bricks released from the mould containers, characterized in
that the apparatus further
    comprises means (22) for moving the mould container parts (4) filled with
green bricks such that a
    protruding edge is formed on at least one side of the green bricks.
<img alt="IMAGE" data-bbox="115 155 275 165"/></exch:p>
    </exch:abstract>
  </exch:exchange-document>
</exch:exchange-documents>
</ops:world-patent-data>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

As mentioned above the response is enclosed in an 'ops:world-patent-data' element. It also contains the meta data element. In addition to these elements the biblio retrieval response has the following structure:

element	attribute(s)	purpose	parent element
exch:exchange-document	xmlns:exch - the namespace of the definition	-	ops:world-patent-data
exch:exchange-document	country - the country code of the current publication doc-number - the document number of the current publication family-id - identifies a set of equivalent documents kind - the kind code of the current publication system - the system where the publication / document was retrieved from, this identifies the current OPS server	This element contains different subelements which hold the bibliographic data and the abstract of the publication.	exch:exchange-documents
exch:bibliographic-data	none	This element is the container for the bibliographic data.	exch:exchange-document
exch:publication-referencedata	data-format - the data format of the document key (in this case epodoc or docdb)	This element contains data referring to a single publication.	exch:bibliographic-data
exch:classification-ipc	none	This element contains different (international) classifications the current patent is in. Classification is given in old format.	exch:bibliographic-data
exch:classifications-ipc	none	This element contains different (international) classifications the	exch:bibliographic-data

		current patent is in. Classification is given in new format as a result of the IPC reform.	
classification-ipcr	sequence - the sequence number of the different classifications	-	exch:classifications-ipcr
exch:classification-ecla	none	This element contains different (European) classifications the current patent is in.	exch:bibliographic-data
classification-symbol	none	This element contains different (European) classification items the current patent is in.	exch:classification-ecla
exch:application-referenc	data-format - the data format of the application reference (in this case 'epodoc' or 'original') sequence - the sequence number of the application reference	This element contains the application reference of the current patent.	exch:bibliographic-data
exch:priority-claims	none	-	exch:bibliographic-data
exch:priority-claim	data-format - the data format of the priority claim (in this case 'epodoc' or 'original') sequence - the sequence number of the priority claim	-	exch:bibliographic-data
exch:parties	none	This element contains data referring to the applicants and inventors of the patent.	exch:bibliographic-data
exch:applicants	none	This element contains data referring to the applicant(s) of the patent.	exch:parties
exch:applicant	data-format - the data format the applicant data is given (either epodoc or original) sequence - the sequence number of the different applicants	This element (currently) contains the applicant-name element.	exch:applicants
exch:applicant-name	none	This element (currently) contains the the name of the applicant. The	exch:applicant

		name itself is hold in a 'name' element.	
exch:inventors	none	This element contains data referring to the inventor(s) of the patent.	exch:parties
exch:inventor	data-format - the data format the inventor data is given (either epodoc or original) sequence - the sequence number of the different inventors	This element (currently) contains the inventor-name element.	exch:inventors
exch:inventor-name	none	This element (currently) contains the the name of the inventor. The name itself is hold in a 'name' element.	exch:inventor
exch:invention-title	lang - the language the invention title is given (currently: de, fr, en)	This element holds the title of the invention.	exch:bibliographic-data
exch:references-cited	none	This element contains a list of cited publications.	exch:bibliographic-data
exch:citation	sequence - the sequence number of a cited document	-	exch:references-cited
patcit	none	-	exch:citation
exch:abstract	none	This element contains the abstract of the publication. The element is no subelement of exch:bibliographic-data.	exch:exchange-document

The response message contains the following bibliographic data:

- publication reference (in docdb and epodoc format)
- classification (international and European)
- application reference
- priority claims
- parties (applicant and inventor)
- title
- references
- abstract

It is also possible to execute a BiblioRetrieval as so called batch retrieval. Therefore, simply provide more than one reference in the request. These references may be of any of the allowed types, i.e. it is possible to mix publication-reference, application-reference, and priority-claim in the request. The format of the given document ID may also vary. The response will then contain bibliographic data blocks matching

references in the request, given as separate exchange-document elements. There is an upper limit of 20 as to how many biblios can be requested in one batch. This limit can be changed without further notice. See below for an example of a request for more than one biblio.


```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ops="http://ops.epo.org"
xmlns:exc="http://www.epo.org/exchange">
  <soapenv:Header/>
  <soapenv:Body>
    <ops:biblio-retrieval>
      <exc:publication-reference data-format="docdb">
        <document-id>
          <country>EP</country>
          <doc-number>1000000</doc-number>
          <kind>A1</kind>
        </document-id>
      </exc:publication-reference>
      <exc:publication-reference data-format="epodoc">
        <document-id>
          <doc-number>US4000000</doc-number>
        </document-id>
      </exc:publication-reference>
      <exc:application-reference data-format="epodoc">
        <document-id>
          <doc-number>US19890352062</doc-number>
        </document-id>
      </exc:application-reference>
    </ops:biblio-retrieval>
  </soapenv:Body>
</soapenv:Envelope>
```

Also, please note that each request reference may lead to more than one biblio result. The minimum amount of responses is the number of requested items but at least one item. This number will always be returned. However, some results are not allowed to be shown. In order to return the exact number of requested elements the 'missing' results are replaced by dummies (currently with 'not found' message as status of exchange-document and publication-reference). This behaviour was chosen to show the client that no data is lost. The maximum number is currently limited to <batch retrieval limit>. Keep this fact in mind when using the batch retrieval. Let's take the following code snippet as example: <snippet>.

The corresponding response looks like follows: <response snippet>.

BiblioSearch

With the help of the BiblioSearch command it is possible to search for patent information. A search can be performed on the following keywords: title, abstract, inventor, application and so on. The BiblioSearch command uses a special syntax for search terms - so called esp@cenet query language EQL, see [levelx:Espacenet Query Language Specification](#)). In contrast to the BiblioRetrieval command just the priority number and the family-id is returned.

 **Accepted data format**
ops:eql-query

A possible SOAP request for BiblioSearch may look like follows:

```

"http://ops.epo.org">
  <soapenv:Header/>
  <soapenv:Body>
    <ops:biblio-search>
      <ops:eql-query>title:rabbit</ops:eql-query>
      <ops:range begin="0" end="4"/>
    </ops:biblio-search>
  </soapenv:Body>
</soapenv:Envelope>

```

The request shows a search using the espacenet query language. The query is enclosed in the `<ops:eql-query>` tag. In this case patent information, which contains 'rabbit' in title, is requested. Additionally, a range for search results is given. In this case five results would be shown (inclusive begin 0 and end 4). If there are less than five, only the available results are shown.

The corresponding response looks like follows:

```

<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header/>
  <SOAP-ENV:Body>
    <ops:world-patent-data xmlns:ops="http://ops.epo.org">
      <ops:meta name="elapsed-time" value="523"/>
      <ops:biblio-search total-result-count="578">
        <ops:eql-query>title:rabbit</ops:eql-query>
        <ops:range begin="0" end="4"/>
        <ops:search-result>
          <ops:publication-reference data-format="docdb" family-id="38430932"
            system="ops.espacenet.com" xmlns:exch="http://www.epo.org/exchange">
            <document-id>
              <country>RU</country>
              <doc-number>2302750</doc-number>
            </document-id>
          </ops:publication-reference>
          <ops:publication-reference data-format="docdb" family-id="38430981"
            system="ops.espacenet.com" xmlns:exch="http://www.epo.org/exchange">
            <document-id>
              <country>RU</country>
              <doc-number>2302797</doc-number>
            </document-id>
          </ops:publication-reference>
          <ops:publication-reference data-format="docdb" family-id="38322547"
            system="ops.espacenet.com" xmlns:exch="http://www.epo.org/exchange">
            <document-id>
              <country>WO</country>
              <doc-number>2007089563</doc-number>
            </document-id>
          </ops:publication-reference>
          <ops:publication-reference data-format="docdb" family-id="36793484"
            system="ops.espacenet.com" xmlns:exch="http://www.epo.org/exchange">
            <document-id>
              <country>MX</country>
              <doc-number>PA06013933</doc-number>
            </document-id>
          </ops:publication-reference>
          <ops:publication-reference data-format="docdb" family-id="38322547"
            system="ops.espacenet.com" xmlns:exch="http://www.epo.org/exchange">
            <document-id>
              <country>US</country>
              <doc-number>2007178531</doc-number>
            </document-id>
          </ops:publication-reference>
        </ops:search-result>
      </ops:biblio-search>
    </ops:world-patent-data>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

As mentioned above the response is enclosed in a 'ops:world-patent-data' element. It also contains the meta data element. In addition to these elements the biblio search result has the following structure:

<structure>

element	attribute(s)	purpose	parent element
ops:biblio-search	total-result-count - holds the number of result elements	This element contains the query and the search result(s). The search result is a list of publications.	ops:world-patent-data
ops:eql-query	none	This element contains the given query in EQL.	ops:biblio-search
ops:range	begin - holds the index of the first element in the result list end - holds the index of the last element in the result list	This element defines the range for the output data.	ops:biblio-search
ops:search-result	none	This element contains the publication number(s) found matching the search term.	ops:biblio-search
ops:publication-reference	data-format - the data format of the document key (in this case docdb) family-id - the family identifier of the current publication system - the system where the publication / document can be retrieved from xmlns:exch - the namespace of the definition	This element contains data referring to a single publication. A document key holds the country code and document number.	ops:search-result

If there are invalid elements in the result, these elements will not be removed. Instead of removing these elements will be replaced with dummies. This behaviour was chosen to show the client that no data is lost. The following code snippet shows a request causing the described response:

```
<biblio-search xmlns="http://espacenet.com/webservices/ops/server/schemas/input">  
  <eql-query>title:polishing and publicationNumber:be</eql-query>  
  <range begin="1" end="10"/>  
</biblioSearch>
```

```
<world-patent-data>  
  <biblio-search total-result-count="23" elapsed-time="244ms">  
    <eql-query>database:x and (title:y or abstract:y)</eql-query>  
    <range begin="1" end="1"/>  
    <search-result>  
      <ops:publication-reference data-format="epodoc" family-id="19768124"  
system="ops.espacenet.com">  
        <document-id>
```

```

    <doc-number>EP1000000</doc-number>
  </document-id>
</ops:publication-reference>
<ops:publication-reference data-format="epodoc" family-id="27403630"
system="ops.espacenet.com">
  <document-id>
    <doc-number>US4000000</doc-number>
  </document-id>
</ops:publication-reference>
</search-result>
</biblio-search>
</world-patent-data>

```

The following example shows a request, which doesn't have any result.

```

<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ops="http://ops.epo.org">
  <soapenv:Header/>
  <soapenv:Body>
    <ops:biblio-search>
      <ops:eql-query>abstract:xyzabc and abstract:abcxyz</ops:eql-query>
      <ops:range begin="0" end="4"/>
    </ops:biblio-search>
  </soapenv:Body>
</soapenv:Envelope>

```

The corresponding result looks like follows:

```


<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header/>
  <SOAP-ENV:Body>
    <ops:world-patent-data xmlns:ops="http://ops.epo.org">
      <ops:meta name="elapsed-time" value="97"/>
      <ops:biblio-search total-result-count="0">
        <ops:eql-query>abstract:xyzabc and abstract:abcxyz</ops:eql-query>
        <ops:range begin="0" end="4"/>
        <ops:search-result/>
      </ops:biblio-search>
    </ops:world-patent-data>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

The value 'total-result-count="0"' in tag <ops:biblio-search total-result-count="0"> indicates that there are no results.

ClaimsRetrieval

The ClaimsRetrieval command retrieves the claims of a patent as fulltext. A significant point is that not all fulltext data can be retrieved at the moment. Currently, fulltext from documents with the following country code can be retrieved: WO (referring to worldwide patents), EP (European Union wide patents) and CA (Canadian patents). However, EPO internals can retrieve every fulltext document.

 **Accepted data format**
exc:publication-reference,
ops:publication-reference

The following code snippet / SOAP message shows a typical ClaimsRetrieval command:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ops="http://ops.epo.org" xmlns:exc="http://www.epo.org/exchange">
  <soapenv:Header/>
  <soapenv:Body>
    <ops:claims-retrieval format="text-only">
      <ops:publication-reference data-format="epodoc">
        <document-id>
          <doc-number>EP1000000</doc-number>
        </document-id>
      </ops:publication-reference>
    </ops:claims-retrieval>
  </soapenv:Body>
</soapenv:Envelope>
```

The corresponding response looks like follows:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header/>
  <SOAP-ENV:Body>
    <ops:world-patent-data xmlns:ops="http://ops.epo.org">
      <ops:meta name="elapsed-time" value="300"/>
      <ftxt:fulltext-documents xmlns:ftxt="http://www.epo.org/fulltext">
        <ftxt:fulltext-document system="ops.espacenet.com">
          <ftxt:bibliographic-data>
            <publication-reference>
              <document-id>
                <doc-number>EP1000000</doc-number>
              </document-id>
            </publication-reference>
          </ftxt:bibliographic-data>
          <ftxt:claims lang="en">
            <ftxt:claim>
              <claim-text>1. Apparatus for manufacturing green bricks from clay for the
brick manufacturing industry,
comprising a circulating conveyor carrying mould containers combined to
mould container parts, a
reservoir for clay arranged above the mould containers, means for carrying
clay out of the reservoir
into the mould containers, means for pressing and trimming clay in the
mould containers, means for
supplying and placing take-off plates for the green bricks and means for
discharging green bricks
released from the mould containers, characterized in that the apparatus
further comprises
means for moving the mould container parts filled with green bricks such
that a protruding edge is
formed on at least one side of the green bricks.</claim-text>
              <claim-text>2. Apparatus as claimed in claim 1, wherein the edge-forming
means are adapted to move the
mould container parts repeatedly for a certain period.</claim-text>
              [...]
            </ftxt:claim>
          </ftxt:claims>
        </ftxt:fulltext-document>
      </ftxt:fulltext-documents>
    </ops:world-patent-data>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

The returned claim is in simple text / fulltext. As mentioned above the response is enclosed in a 'ops:world-patent-data' element. It also contains the meta data element. In addition to these elements the biblio search result has the following structure:

element	attribute(s)	purpose	parent element
ftxt:fulltext-documents	xmlns:ftxt - the namespace of the	-	ops:world-patent-data

	definition		
ftxt:fulltext-document	system - the system where the publication / document can be retrieved from	This element contains the publication reference and the claims of the current publication.	ftxt:fulltext-documents
ftxt:bibliographic-data	none	This element contains the publication reference of the requested publication.	ftxt:fulltext-document
publication-reference	none	This element contains the document key of the requested publication.	ftxt:bibliographic-data
ftxt:claims	lang - the language of the given claims	This element contains the claim(s) in different claim elements.	ftxt:fulltext-document
ftxt:claim	none	This element contains the claim(s) in 'claim-text' elements.	ftxt:claims
claim-text	none	This element holds the description of a single claim.	ftxt:claim

Description Retrieval

The DescriptionsRetrieval command retrieves the description of an invention as fulltext. A significant point is that not all fulltext data can be retrieved at the moment. Currently, fulltext from documents with the following country code can be retrieved: WO (referring worldwide patents), EP (European Union wide patents) and CA (Canadian patents). However, EPO internals can retrieve every fulltext document.



Accepted data format

exc:publication-reference,
ops:publication-reference

The following code snippet shows a typical DescriptionRetrieval command:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ops="http://ops.epo.org"
xmlns:exc="http://www.epo.org/exchange">
  <soapenv:Header/>
  <soapenv:Body>
    <ops:description-retrieval format="text-only">
      <ops:publication-reference data-format="epodoc">
        <document-id>
          <doc-number>EP1000000</doc-number>
        </document-id>
      </ops:publication-reference>
    </ops:description-retrieval>
  </soapenv:Body>
</soapenv:Envelope>
```

The corresponding response looks like follows:

```

<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header/>
  <SOAP-ENV:Body>
    <ops:world-patent-data xmlns:ops="http://ops.epo.org">
      <ops:meta name="elapsed-time" value="317"/>
      <ftxt:fulltext-documents xmlns:ftxt="http://www.epo.org/fulltext">
        <ftxt:fulltext-document system="ops.espacenet.com">
          <ftxt:bibliographic-data>
            <publication-reference>
              <document-id>
                <doc-number>EP1000000</doc-number>
              </document-id>
            </publication-reference>
          </ftxt:bibliographic-data>
          <ftxt:description lang="en">
            <p>[0001] The invention relates to an apparatus for manufacturing green bricks from clay for the brick manufacturing industry, comprising a circulating conveyor carrying mould containers combined to mould container parts, a reservoir for clay arranged above the mould containers, means for carrying clay out of the reservoir into the mould containers, means for pressing and trimming clay in the mould containers, means for supplying and placing take-off plates for the green bricks and means for discharging green bricks released from the mould containers. Such an apparatus is known in the field and is for instance described in the patent 1000186 of applicant. The known apparatus is extremely suitable for automated production of large numbers of green bricks for the brick manufacturing industry. The bricks fired from these green bricks have a substantially smooth, uniform appearance.</p>
            <p>[0002] A recent demand has developed on the market for bricks which appear as if they have been manufactured according to traditional methods.</p>
            [...]
          </ftxt:description>
        </ftxt:fulltext-document>
      </ftxt:fulltext-documents>
    </ops:world-patent-data>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

As mentioned above the response is enclosed in a 'ops:world-patent-data' element. It also contains the meta data element. In addition to these elements the description retrieval result has the following structure:

element	attribute(s)	purpose	parent element
ftxt:fulltext-documents	xmlns:ftxt - the namespace of the definition	-	ops:world-patent-data
ftxt:fulltext-document	system - the system where the publication / document can be retrieved from	This element contains the publication reference and the description of the invention.	ftxt:fulltext-documents
ftxt:bibliographic-data	none	This element contains the publication reference of the requested publication.	ftxt:fulltext-document
publication-reference	none in this case	This element contains	ftxt:bibliographic-data

		the document key of the requested publication.	
ftxt:description	lang - the language of the given claims	This element contains the description of the invention.	ftxt:fulltext-document

DocumentInquiry

The DocumentInquiry command retrieves information about available patent documents. For each document / publication reference there is a list of instances. Every instance may contain the following items: the document identifier, the number of pages and the structure (e.g. different sections) of a document. Furthermore, the available file formats are given (currently: PDF, PNG, TIFF). With the given data it is now possible to get a special document or parts of a document. See [DocumentRetrieval](#) for further information.



Accepted data format

exc:publication-reference, exc:application-reference, exc:priority-claim
ops:publication-reference, ops:application-reference, ops:priority-claim

The following code snippet shows a typical DocumentInquiry command:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ops="http://ops.epo.org"
xmlns:exc="http://www.epo.org/exchange">
  <soapenv:Header/>
  <soapenv:Body>
    <ops:document-inquiry>
      <exc:publication-reference data-format="epodoc">
        <document-id>
          <doc-number>EP1000000</doc-number>
          <kind>A1</kind>
        </document-id>
      </exc:publication-reference>
    </ops:document-inquiry>
  </soapenv:Body>
</soapenv:Envelope>
```

The corresponding response looks like follows:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header/>
  <SOAP-ENV:Body>
    <ops:world-patent-data xmlns:ops="http://ops.epo.org">
      <ops:meta name="elapsed-time" value="2359"/>
      <ops:document-inquiry>
        <exch:publication-reference data-format="epodoc"
xmlns:exch="http://www.epo.org/exchange">
          <document-id>
            <doc-number>EP1000000</doc-number>
            <kind>A1</kind>
          </document-id>
        </exch:publication-reference>
      <ops:inquiry-result>
        <exch:publication-reference data-format="docdb"
xmlns:exch="http://www.epo.org/exchange">
          <document-id>
            <country>EP</country>
            <doc-number>1000000</doc-number>
```

```

        <kind>A1</kind>
        </document-id>
    </exch:publication-reference>
    <ops:document-instance desc="Drawing" id="EP          1000000A1TI "
number-of-pages="6" system="ops.espacenet.com">
        <ops:document-format-options>
            <ops:document-format>SINGLE_PAGE_PDF</ops:document-format>
            <ops:document-format>SINGLE_PAGE_TIFF</ops:document-format>
        </ops:document-format-options>
        <ops:document-section name="DRAWINGS" start-page="1"/>
    </ops:document-instance>
    <ops:document-instance desc="FullDocument" id="EP          1000000A1 I "
number-of-pages="12" system="ops.espacenet.com">
        <ops:document-format-options>
            <ops:document-format>SINGLE_PAGE_PDF</ops:document-format>
            <ops:document-format>SINGLE_PAGE_TIFF</ops:document-format>
        </ops:document-format-options>
        <ops:document-section name="ABSTRACT" start-page="1"/>
        <ops:document-section name="BIBLIOGRAPHY" start-page="1"/>
        <ops:document-section name="CLAIMS" start-page="3"/>
        <ops:document-section name="DESCRIPTION" start-page="2"/>
        <ops:document-section name="DRAWINGS" start-page="5"/>
        <ops:document-section name="SEARCH_REPORT" start-page="11"/>
    </ops:document-instance>
</ops:inquiry-result>
<ops:inquiry-result>
    <exch:publication-reference data-format="docdb"
xmlns:exch="http://www.epo.org/exchange">
        <document-id>
            <country>EP</country>
            <doc-number>1000000</doc-number>
            <kind>PA</kind>
        </document-id>
    </exch:publication-reference>
    <ops:document-instance desc="FirstPageClipping" id="EP          1000000PAFP "
number-of-pages="1" system="ops.espacenet.com">
        <ops:document-format-options>
            <ops:document-format>SINGLE_PAGE_PDF</ops:document-format>
            <ops:document-format>SINGLE_PAGE_TIFF</ops:document-format>
            <ops:document-format>FIRST_PAGE_PNG</ops:document-format>
        </ops:document-format-options>
        <ops:document-section name="ABSTRACT" start-page="1"/>
        <ops:document-section name="BIBLIOGRAPHY" start-page="1"/>
    </ops:document-instance>
</ops:inquiry-result>
</ops:document-inquiry>
</ops:world-patent-data>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

As mentioned above the response is enclosed in a 'ops:world-patent-data' element. It also contains the meta data element. In addition to these elements the document inquiry result has the following structure:

element	attribute(s)	purpose	parent element
ops:document-inquiry	none	This element holds the publication reference of the requested publication and the inquiry result(s) in 'ops:inquiry-result' elements.	ops:world-patent-data
exch:publication-referencedata-format - the data format of the document key (in this case epodoc) xmlns:exch - the		This element contains data referring to the requested publication. A document key holds the country code and	ops:document-inquiry

	namespace of the definition	document number. This is the repetition of the input.	
ops:inquiry-result	none	Every single 'inquiry-result' element contains data referring to the available documents.	ops:document-inquiry
exch:publication-referencedata-format - the data format of the document key (in this case docdb) xmlns:exch - the namespace of the definition		This element contains data referring to a single publication / inquiry result. A document key holds the country code, the document number and the kind code.	ops:inquiry-result
ops:document-instance	desc - a label describing the kind of document (in this case: 'FullDocument', 'Drawing', 'FirstPageClipping'). id - the identifier of the document, The identifier is used the retrieve the given document. Take care to use the exact string the retrieve the document (see DocumentRetrieval) number-of-pages - the number of pages of the document system - the system where the document can be retrieved from	This element contains the available formats and a table of contents of the given document.	ops:inquiry-result
ops:document-format-options	none	This element contains the file formats of an available document. A 'ops:document-format' element holds the description of the file format.	ops:document-instance
ops:document-format	none	This element contains the file format of an available document. Currently, 'SINGLE_PAGE_PDF' and 'SINGLE_PAGE_TIFF' are supported.	ops:document-format-options

ops:document-section	name - the title of the section start-page - the start page of the given section	This element holds the title of a single section and the start page of this section.	ops:document-instance
----------------------	---	--	-----------------------

DocumentRetrieval

In contrast to the DocumentInquiry the DocumentRetrieval command retrieves parts of documents. So the page number of the desired page has to be given. In this context the result of a DocumentInquiry command can be used. A document can be referenced by its unique document identifier. Furthermore, it is possible to specify which (available) file type of the document should be retrieved. Note that the document can only be retrieved with the exact document identifier. So the identifier has to match the identifier returned by the DocumentInquiry command.



Accepted data format

ops:document-retrieval

The following code snippet shows a typical DocumentRetrieval command:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ops="http://ops.epo.org">
  <soapenv:Header/>
  <soapenv:Body>
    <ops:document-retrieval
      id="EP 1000000A1TI "
      page-number="1"
      document-format="SINGLE_PAGE_PDF"
      system="ops.espacenet.com"/>
    </soapenv:Body>
  </soapenv:Envelope>
```

The ID given in the request ('id="EP 1000000A1TI "') can be obtained by a DocumentInquiry command. If there are documents available, document instances will be returned by a DocumentInquiry response. The identifiers of these document instances are used to retrieve a special document.

The corresponding response looks like follows:

```
<SOAP-ENV:Envelope
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
<SOAP-ENV:Header/>
<SOAP-ENV:Body>
  <ops:world-patent-data xmlns:ops="http://ops.epo.org">
    <ops:meta name="elapsed-time" value="3416"/>
    <ops:document-retrieval document-format="SINGLE_PAGE_PDF" id="EP 1000000A1TI "
page-number="1"
system="ops.espacenet.com">
      <ops:desc>Drawing</ops:desc>
      <ops:content-ref>EP 1000000A1TI .pdf</ops:content-ref>
    </ops:document-retrieval>
  </ops:world-patent-data>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

As mentioned above the response is enclosed in a 'ops:world-patent-data' element. It also contains the

meta data element. In addition to the response above a response attachment with the binary file is returned. The document retrieval result has the following structure:

element	attribute(s)	purpose	parent element
ops:document-retrieval	document-format - holds the description of the file format of the retrieved document id - the identifier of the retrieved document page-number - the page number of the retrieved document, The page number is given because the document can only be retrieved page wise. system - the system where the publication / document can be retrieved from	-	ops:world-patent-data
ops:desc	none	This element holds a label describing the kind of document (in this case: Drawing).	ops:document-retrieval
ops:content-ref	none	This element holds the filename of the retrieved document / the attached file.	ops:document-retrieval

The requested document is given to the response as a MIME attachment.

EquivalentsInquiry

The EquivalentsInquiry retrieves equivalents for a special patent. Equivalents in this case are inventions which describe the same idea. Equivalents are patents matching exactly referring to their priority numbers. As a result a list of document keys / patent numbers in 'docdb' format is returned.



Accepted data format

exc:publication-reference,
ops:publication-reference

The following code snippet shows a typical EquivalentsInquiry command:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ops="http://ops.epo.org" xmlns:exc="http://www.epo.org/exchange">
  <soapenv:Header/>
  <soapenv:Body>
```

```

<ops:equivalents-inquiry>
  <exc:publication-reference data-format="epodoc">
    <document-id>
      <doc-number>EP1000000</doc-number>
    </document-id>
  </exc:publication-reference>
</ops:equivalents-inquiry>
</soapenv:Body>
</soapenv:Envelope>

```

The corresponding response looks like follows:

```

<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header/>
  <SOAP-ENV:Body>
    <ops:world-patent-data xmlns:ops="http://ops.epo.org">
      <ops:meta name="elapsed-time" value="797"/>
      <ops:equivalents-inquiry>
        <exc:publication-reference data-format="epodoc"
xmlns:exc="http://www.epo.org/exchange">
          <document-id>
            <doc-number>EP1000000</doc-number>
          </document-id>
        </exc:publication-reference>
        <ops:inquiry-result>
          <exc:publication-reference data-format="epodoc"
xmlns:exc="http://www.epo.org/exchange">
            <document-id>
              <doc-number>EP1000000</doc-number>
            </document-id>
          </exc:publication-reference>
        </ops:inquiry-result>
        <ops:inquiry-result>
          <exc:publication-reference data-format="epodoc"
xmlns:exc="http://www.epo.org/exchange">
            <document-id>
              <doc-number>NL1010536C</doc-number>
            </document-id>
          </exc:publication-reference>
        </ops:inquiry-result>
        <ops:inquiry-result>
          <exc:publication-reference data-format="epodoc"
xmlns:exc="http://www.epo.org/exchange">
            <document-id>
              <doc-number>DE69905327D</doc-number>
            </document-id>
          </exc:publication-reference>
        </ops:inquiry-result>
        <ops:inquiry-result>
          <exc:publication-reference data-format="epodoc"
xmlns:exc="http://www.epo.org/exchange">
            <document-id>
              <doc-number>US6093011</doc-number>
            </document-id>
          </exc:publication-reference>
        </ops:inquiry-result>
        <ops:inquiry-result>
          <exc:publication-reference data-format="epodoc"
xmlns:exc="http://www.epo.org/exchange">
            <document-id>
              <doc-number>AT232441T</doc-number>
            </document-id>
          </exc:publication-reference>
        </ops:inquiry-result>
      </ops:equivalents-inquiry>
    </ops:world-patent-data>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

As mentioned above the response is enclosed in a 'ops:world-patent-data' element. It also contains the meta data element. The equivalents inquiry result has the following structure:

element	attribute(s)	purpose	parent element
ops:equivalents-inquiry	none	This element holds the inquiry result(s) in 'ops:inquiry-result' elements.	ops:world-patent-data
exc:publication-reference	data-format - the data format of the document key (in this case epodoc) xmlns:exc - the namespace of the definition	This element contains data referring to the requested publication. A document key holds the country code and document number. This is the repetition of the input.	ops:equivalents-inquiry
ops:inquiry-result	none	Every single 'inquiry-result' element contains a document key referring to an equivalent.	ops:equivalents-inquiry
exc:publication-reference	data-format - the data format of the document key (in this case docdb) xmlns:exc - the namespace of the definition	This element contains data referring to a single publication / inquiry result. A document key holds the country code, the document number and the kind code.	ops:inquiry-result

FamilyRetrieval

The FamilyRetrieval command retrieves family data referring to a special patent. As result, family member(s) may be returned. Every family member contains a list of publications.



Accepted data format

exc:publication-reference, exc:application-reference, exc:priority-claim

ops:publication-reference, ops:application-reference, ops:priority-claim

It is also possible to use wildcards in the kind code. Wildcard in this case are: 'any' or blank.

The following code snippet shows a typical FamilyRetrieval command:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ops="http://ops.epo.org"
xmlns:exc="http://www.epo.org/exchange">
  <soapenv:Header/>
  <soapenv:Body>
    <ops:family-retrieval>
      <exc:publication-reference data-format="docdb">
        <document-id>
          <country>EP</country>
          <doc-number>1000000</doc-number>
          <kind>A1</kind>
        </document-id>
      </exc:publication-reference>
    </ops:family-retrieval>
  </soapenv:Body>
</soapenv:Envelope>
```

```

    </document-id>
  </exc:publication-reference>
</ops:family-retrieval>
</soapenv:Body>
</soapenv:Envelope>

```

The corresponding response looks like follows:

```

<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header/>
  <SOAP-ENV:Body>
    <ops:world-patent-data xmlns:ops="http://ops.epo.org">
      <ops:meta name="elapsed-time" value="3374"/>
      <ops:patent-family legal="false">
        <exch:publication-reference data-format="docdb"
xmlns:exch="http://www.epo.org/exchange">
          <document-id>
            <country>EP</country>
            <doc-number>1000000</doc-number>
            <kind>A1</kind>
          </document-id>
        </exch:publication-reference>
        <ops:family-member>
          <exch:publication-reference data-format="epodoc"
xmlns:exch="http://www.epo.org/exchange">
            <document-id>
              <doc-number>AT232441T</doc-number>
              <date>20030215</date>
            </document-id>
          </exch:publication-reference>
          <exch:publication-reference data-format="docdb"
xmlns:exch="http://www.epo.org/exchange">
            <document-id>
              <country>AT</country>
              <doc-number>232441</doc-number>
              <kind>T</kind>
              <date>20030215</date>
            </document-id>
          </exch:publication-reference>
          <exch:application-reference data-format="docdb"
xmlns:exch="http://www.epo.org/exchange">
            <document-id>
              <country>AT</country>
              <doc-number>99203729</doc-number>
              <kind>T</kind>
            </document-id>
          </exch:application-reference>
          <exch:priority-claim data-format="docdb"
xmlns:exch="http://www.epo.org/exchange">
            <document-id>
              <country>NL</country>
              <doc-number>1010536</doc-number>
              <kind>A</kind>
            </document-id>
          </exch:priority-claim>
        </ops:family-member>
        <ops:family-member>
          <exch:publication-reference data-format="epodoc"
xmlns:exch="http://www.epo.org/exchange">
            <document-id>
              <doc-number>DE69905327D</doc-number>
              <date>20030320</date>
            </document-id>
          </exch:publication-reference>
          <exch:publication-reference data-format="docdb"
xmlns:exch="http://www.epo.org/exchange">
            <document-id>
              <country>DE</country>
              <doc-number>69905327</doc-number>
              <kind>D1</kind>
              <date>20030320</date>
            </document-id>
          </exch:publication-reference>
          <exch:application-reference data-format="docdb"

```



```

"http://www.epo.org/exchange">
  <document-id>
    <country>DE</country>
    <doc-number>69905327</doc-number>
    <kind>A</kind>
  </document-id>
</exch:application-reference>
<exch:priority-claim data-format="docdb"
xmlns:exch="http://www.epo.org/exchange">
  <document-id>
    <country>NL</country>
    <doc-number>1010536</doc-number>
    <kind>A</kind>
  </document-id>
</exch:priority-claim>
</ops:family-member>
[... ]
</ops:patent-family>
</ops:world-patent-data>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

As mentioned above the response is enclosed in a 'ops:world-patent-data' element. It also contains the meta data element. The document retrieval result has the following structure:

element	attribute(s)	purpose	parent element
ops:patent-family	legal - flag indicating whether legal data is in the current message. False - no legal data is given, True - legal data is given, See LegalRetrieval for further information.	This element contains different 'ops:family-member' elements.	ops:world-patent-data
exch:publication-reference	data-format - the data format of the document key (in this case docdb) xmlns:exch - the namespace of the definition	This element contains data referring to the requested publication. This is the repetition of the input.	ops:patent-family
ops:family-member	none	This element contains a list of publications which are members of the defined family.	ops:patent-family
exch:publication-reference	data-format - the data format of the document key (in this case epodoc and docdb) xmlns:exch - the namespace of the definition	This element contains data referring to the publication found. The publication reference is given twice, once on epodoc and once in docdb format.	ops:family-member
exch:application-reference	data-format - the data format of the document key (in this case docdb) xmlns:exch - the namespace of the definition	This element contains data referring to the application document found.	ops:family-member

exch:priority-claim	data-format - the data format of the document key (in this case docdb) xmlns:exch - the namespace of the definition	This element contains data referring to the priority claim of this family member.	ops:family-member
---------------------	--	---	-------------------

FamilyAndBiblioRetrieval

The FamilyAndBiblioRetrieval command is a combination of FamilyRetrieval and BiblioRetrieval. So bibliographic data as well as family data can be retrieved in one single request. However, bibliographic data is just returned for the requested patent. So bibliographic data is not returned for the family members.



Accepted data format

exc:publication-reference, exc:application-reference, exc:priority-claim

ops:publication-reference, ops:application-reference, ops:priority-claim

It is also possible to use wildcards in the kind code. Wildcard in this case are: 'any' or blank.

The following code snippet shows a typical FamilyAndBiblioRetrieval command:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ops="http://ops.epo.org"
xmlns:exch="http://www.epo.org/exchange">
  <soapenv:Header/>
  <soapenv:Body>
    <ops:family-and-biblio-retrieval>
      <exc:publication-reference data-format="docdb">
        <document-id>
          <country>EP</country>
          <doc-number>1000000</doc-number>
          <kind>A1</kind>
        </document-id>
      </exc:publication-reference>
    </ops:family-and-biblio-retrieval>
  </soapenv:Body>
</soapenv:Envelope>
```

The corresponding response looks like follows:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header/>
  <SOAP-ENV:Body>
    <ops:world-patent-data xmlns:ops="http://ops.epo.org">
      <ops:meta name="elapsed-time" value="529"/>
      <ops:patent-family legal="false">
        <exch:publication-reference data-format="docdb"
xmlns:exch="http://www.epo.org/exchange">
          <document-id>
            <country>EP</country>
            <doc-number>1000000</doc-number>
            <kind>A1</kind>
          </document-id>
        </exch:publication-reference>
      <ops:family-member>
        <exch:publication-reference data-format="epodoc"
xmlns:exch="http://www.epo.org/exchange">
          <document-id>
```

```

        <doc-number>EP1000000</doc-number>
        <date>20000517</date>
    </document-id>
</exch:publication-reference>
<exch:publication-reference data-format="docdb"
xmlns:exch="http://www.epo.org/exchange">
    <document-id>
        <country>EP</country>
        <doc-number>1000000</doc-number>
        <kind>A1</kind>
        <date>20000517</date>
    </document-id>
</exch:publication-reference>
<exch:application-reference data-format="docdb"
xmlns:exch="http://www.epo.org/exchange">
    <document-id>
        <country>EP</country>
        <doc-number>9920372</doc-number>
        <kind>9A</kind>
    </document-id>
</exch:application-reference>
<exch:priority-claim data-format="docdb"
xmlns:exch="http://www.epo.org/exchange">
    <document-id>
        <country>NL</country>
        <doc-number>1010536A 199811</doc-number>
        <kind>12</kind>
    </document-id>
</exch:priority-claim>
<exch:exchange-document country="EP" doc-number="1000000" family-id="19768124"
kind="A1"
system="ops.espacenet.com" xmlns:exch="http://www.epo.org/exchange">
    <exch:bibliographic-data>
        <exch:publication-reference data-format="docdb">
            <document-id>
                <country>EP</country>
                <doc-number>1000000</doc-number>
                <kind>A1</kind>
                <date>20000517</date>
            </document-id>
        </exch:publication-reference>
        <exch:publication-reference data-format="epodoc">
            <document-id>
                <doc-number>EP1000000</doc-number>
                <date>20000517</date>
            </document-id>
        </exch:publication-reference>
        <exch:classification-ipc>
            <text>B28B5/02</text>
            <text>B28B1/29</text>
            <text>B28B7/00</text>
        </exch:classification-ipc>
        <exch:classifications-ipcr>
            <classification-ipcr sequence="1">
                <text>B28B 1/ 00 C I</text>
            </classification-ipcr>
            <classification-ipcr sequence="2">
                <text>B28B 5/ 00 C I</text>
            </classification-ipcr>
            <classification-ipcr sequence="3">
                <text>B28B 7/ 00 C I</text>
            </classification-ipcr>
            <classification-ipcr sequence="4">
                <text>H02P 6/ 08 C I</text>
            </classification-ipcr>
            <classification-ipcr sequence="5">
                <text>B28B 1/ 29 A I</text>
            </classification-ipcr>
            <classification-ipcr sequence="6">
                <text>B28B 5/ 02 A I</text>
            </classification-ipcr>
            <classification-ipcr sequence="7">
                <text>B28B 7/ 00 A I</text>
            </classification-ipcr>
            <classification-ipcr sequence="8">
                <text>H02P 6/ 08 A I</text>
            </classification-ipcr>
        </exch:classifications-ipcr>
    </exch:bibliographic-data>
</exch:exchange-document>

```

```

<exch:classification-ecla>
  <classification-symbol>H02P6/08</classification-symbol>
</exch:classification-ecla>
<exch:classification-ecla>
  <classification-symbol>B28B1/29</classification-symbol>
</exch:classification-ecla>
<exch:classification-ecla>
  <classification-symbol>B28B5/02B2</classification-symbol>
</exch:classification-ecla>
<exch:classification-ecla>
  <classification-symbol>B28B7/00F</classification-symbol>
</exch:classification-ecla>
<exch:classification-ecla>
  <classification-symbol>G01N21/64H</classification-symbol>
</exch:classification-ecla>
<exch:classification-ecla>
  <classification-symbol>G01N21/64P2</classification-symbol>
</exch:classification-ecla>
<exch:application-reference data-format="epodoc" sequence="1">
  <document-id>
    <doc-number>EP19990203729</doc-number>
    <date>19991108</date>
  </document-id>
</exch:application-reference>
<exch:application-reference data-format="original" sequence="1">
  <document-id>
    <doc-number>99203729</doc-number>
  </document-id>
</exch:application-reference>
<exch:priority-claims>
  <exch:priority-claim data-format="epodoc" sequence="1">
    <document-id>
      <doc-number>NL19981010536</doc-number>
      <date>19981112</date>
    </document-id>
  </exch:priority-claim>
  <exch:priority-claim data-format="original" sequence="1">
    <document-id>
      <doc-number>1010536</doc-number>
    </document-id>
  </exch:priority-claim>
</exch:priority-claims>
<exch:parties>
  <exch:applicants>
    <exch:applicant data-format="epodoc" sequence="1">
      <exch:applicant-name>
        <name>BOER BEHEER NIJMEGEN BV DE [NL]</name>
      </exch:applicant-name>
    </exch:applicant>
  </exch:applicants>
  <exch:inventors>
    <exch:inventor data-format="epodoc" sequence="1">
      <exch:inventor-name>
        <name>KOSMAN WILHELMUS JACOBUS MARIA [NL]</name>
      </exch:inventor-name>
    </exch:inventor>
  </exch:inventors>
</exch:parties>
<exch:invention-title lang="de">Vorrichtung zur Herstellung von
Steinformlingen für die
Ziegelindustrie</exch:invention-title>
<exch:invention-title lang="fr">Dispositif pour la fabrication de briques
crues utilisées dans
l'industrie manufacturière des briques</exch:invention-title>
<exch:invention-title lang="en">Apparatus for manufacturing green bricks
for the brick manufacturing
industry</exch:invention-title>
<exch:references-cited>
  <exch:citation sequence="1">
    <patcit>
      <text>EP0680812 A1</text>
    </patcit>
  </exch:citation>
  <exch:citation sequence="2">
    <patcit>
      <text>NL9400663 A</text>
    </patcit>
  </exch:citation>

```

```

        <exch:citation sequence="3">
          <patcit>
            <text>DE3546191 A1</text>
          </patcit>
        </exch:citation>
      </exch:references-cited>
    </exch:bibliographic-data>
    <exch:abstract>
      <exch:p>The invention relates to an apparatus (1) for manufacturing green
bricks from clay for the brick
manufacturing industry, comprising a circulating conveyor (3) carrying
mould containers combined to
mould container parts (4), a reservoir (5) for clay arranged above the
mould containers, means for
carrying clay out of the reservoir (5) into the mould containers, means
(9) for pressing and trimming
clay in the mould containers, means (11) for supplying and placing
take-off plates for the green bricks
(13) and means for discharging green bricks released from the mould
containers, characterized in that
the apparatus further comprises means (22) for moving the mould container
parts (4) filled with green
bricks such that a protruding edge is formed on at least one side of the
green bricks.
      &lt;IMAGE></exch:p>
    </exch:abstract>
  </exch:exchange-document>
</ops:family-member>
</ops:patent-family>
</ops:world-patent-data>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

As mentioned above the response is enclosed in a 'ops:world-patent-data' element. It also contains the meta data element. The family and biblio retrieval result has the following structure:

element	attribute(s)	purpose	parent element
ops:patent-family	legal - flag indicating whether legal data is in the current message. False - no legal data is given, True - legal data is given, See LegalRetrieval for further information.	This element contains different 'ops:family-member' elements.	ops:world-patent-data
exch:publication-referencedata-format	data-format - the data format of the document key (in this case docdb) xmlns:exch - the namespace of the definition	This element contains data referring to the requested publication. This is the repetition of the input.	ops:patent-family
ops:family-member	none	This element contains a list of publications which are members of the defined family. See FamilyRetrieval command for the description of the subelements.	ops:patent-family
exch:exchange-document	country - the country code of the current	This element contains different elements	ops:family-member

	<p>publication doc-number - the document number of the current publication family-id - the family identifier of the current publication kind - the kind code of the current publication system - the system where the publication / document can be retrieved from</p>	<p>which holds the bibliographic data. See BiblioRetrieval command for the description of the subelements.</p>	
--	--	--	--

FamilyAndLegalRetrieval

The FamilyAndLegalRetrieval command is a combination of FamilyRetrieval and LegalRetrieval. So family data as well as legal data can be retrieved in one single request.



Accepted data format

exc:publication-reference, exc:application-reference, exc:priority-claim

ops:publication-reference, ops:application-reference, ops:priority-claim

It is also possible to use wildcards in the kind code. Wildcard in this case are: 'any' or blank.

The following code snippet shows a typical FamilyAndLegalRetrieval command:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ops="http://ops.epo.org"
xmlns:exc="http://www.epo.org/exchange">
  <soapenv:Header/>
  <soapenv:Body>
    <ops:family-and-legal-retrieval>
      <exc:publication-reference data-format="docdb">
        <document-id>
          <country>EP</country>
          <doc-number>1000000</doc-number>
          <kind>A1</kind>
        </document-id>
      </exc:publication-reference>
    </ops:family-and-legal-retrieval>
  </soapenv:Body>
</soapenv:Envelope>
```

The corresponding response looks like follows:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header/>
  <SOAP-ENV:Body>
    <ops:world-patent-data xmlns:ops="http://ops.epo.org">
      <ops:meta name="elapsed-time" value="1347"/>
      <ops:patent-family legal="true">
        <exch:publication-reference data-format="docdb"
xmlns:exch="http://www.epo.org/exchange">
          <document-id>
            <country>EP</country>
            <doc-number>1000000</doc-number>
```

```

        <kind>A1</kind>
      </document-id>
    </exch:publication-reference>
    <ops:family-member>
      <exch:publication-reference data-format="epodoc"
xmlns:exch="http://www.epo.org/exchange">
        <document-id>
          <doc-number>AT232441T</doc-number>
          <date>20030215</date>
        </document-id>
      </exch:publication-reference>
      <exch:publication-reference data-format="docdb"
xmlns:exch="http://www.epo.org/exchange">
        <document-id>
          <country>AT</country>
          <doc-number>232441</doc-number>
          <kind>T</kind>
          <date>20030215</date>
        </document-id>
      </exch:publication-reference>
      <exch:application-reference data-format="docdb"
xmlns:exch="http://www.epo.org/exchange">
        <document-id>
          <country>AT</country>
          <doc-number>9920372</doc-number>
          <kind>9T</kind>
        </document-id>
      </exch:application-reference>
      <exch:priority-claim data-format="docdb"
xmlns:exch="http://www.epo.org/exchange">
        <document-id>
          <country>NL</country>
          <doc-number>1010536A 199811</doc-number>
          <kind>12</kind>
        </document-id>
      </exch:priority-claim>
      <ops:legal code="RER" dateMigr="00010101" desc="CEASED AS TO PARAGRAPH 5 LIT.
3 LAW INTRODUCING PATENT
TREATIES" infl="-">
        <ops:pre line="00001">AT 99203729T 2003-08-15RER -CEASED AS TO PARAGRAPH
5 LIT. 3 LAW INTRODUCING
PATENT TREATIES</ops:pre>
        <ops:L001EP desc="Country Code">AT</ops:L001EP>
        <ops:L002EP desc="Filing / Published Document">F</ops:L002EP>
        <ops:L003EP desc="Document Number">99203729</ops:L003EP>
        <ops:L004EP desc="Kind Code">T</ops:L004EP>
        <ops:L005EP desc="IPR Type">PI</ops:L005EP>
        <ops:L006EP desc="PRS DOCUMENT TYPE">P</ops:L006EP>
        <ops:L007EP desc="Gazette DATE">2003-08-15</ops:L007EP>
        <ops:L008EP desc="Legal Event Code 1">RER</ops:L008EP>
        <ops:L018EP desc="DATE last exchanged">2003-08-28</ops:L018EP>
        <ops:L019EP desc="DATE first created">2003-08-26</ops:L019EP>
        <ops:L500EP/>
      </ops:legal>
    </ops:family-member>
    [...]
  </ops:patent-family>
</ops:world-patent-data>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

As mentioned above the response is enclosed in a 'ops:world-patent-data' element. It also contains the meta data element. The family and legal retrieval result has the following structure:

element	attribute(s)	purpose	parent element
ops:patent-family	legal - flag indicating whether legal data is in the current message. False - no legal data is given, True - legal data is given, See	This element contains different 'ops:family-member' elements.	ops:world-patent-data

	LegalRetrieval for further information.		
exc:publication-reference	data-format - the data format of the document key (in this case docdb) xmlns:exc - the namespace of the definition	This element contains data referring to the requested publication. This is the repetition of the input.	ops:patent-family
ops:family-member	none	This element contains a list of publications which are members of the defined family. See FamilyRetrieval command for the description of the subelements.	ops:patent-family
ops:legal	code dateMigr desc infl	This element holds data concerning the legal status of the current publication.	ops:family-member
ops:pre	line	-	ops:legal
ops:L***EP	desc	Different fields describing the legal status are hold in these elements.	ops:legal

FamilyAndLegalAndBiblioRetrieval



Accepted data format

exc:publication-reference, exc:application-reference, exc:priority-claim

ops:publication-reference, ops:application-reference, ops:priority-claim

It is also possible to use wildcards in the kind code. Wildcard in this case are: 'any' or blank.

The FamilyAndLegalBiblioRetrieval command is a combination of FamilyRetrieval , LegalRetrieval and BiblioRetrieval. Similar to the BiblioRetrieval command a document identifier is necessary. So the family membership / family data, legal data and bibliographic data of a specific patent can be retrieved. The following code snippet shows a typical FamilyAndLegalAndBiblioRetrieval command:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ops="http://ops.epo.org"
xmlns:exc="http://www.epo.org/exchange">
  <soapenv:Header/>
  <soapenv:Body>
    <ops:family-and-legal-and-biblio-retrieval>
      <exc:publication-reference data-format="docdb">
        <document-id>
          <country>EP</country>
          <doc-number>1000000</doc-number>
        </document-id>
      </exc:publication-reference>
    </ops:family-and-legal-and-biblio-retrieval>
  </soapenv:Body>
</soapenv:Envelope>
```



```

    <kind>A1</kind>
  </document-id>
</exc:publication-reference>
</ops:family-and-legal-and-biblio-retrieval>
</soapenv:Body>
</soapenv:Envelope>

```

The corresponding response looks like follows:

```

<SOAP-ENV:Envelope
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  <SOAP-ENV:Header/>
  <SOAP-ENV:Body>
    <ops:world-patent-data xmlns:ops="http://ops.epo.org">
      <ops:meta name="elapsed-time" value="94"/>
      <ops:patent-family legal="true">
        <exch:publication-reference data-format="docdb"
xmlns:exch="http://www.epo.org/exchange">
          <document-id>
            <country>EP</country>
            <doc-number>1000000</doc-number>
            <kind>A1</kind>
          </document-id>
        </exch:publication-reference>
        <ops:family-member>
          <exch:publication-reference data-format="epodoc"
xmlns:exch="http://www.epo.org/exchange">
            <document-id>
              <doc-number>AT232441T</doc-number>
              <date>20030215</date>
            </document-id>
          </exch:publication-reference>
          <exch:publication-reference data-format="docdb"
xmlns:exch="http://www.epo.org/exchange">
            <document-id>
              <country>AT</country>
              <doc-number>232441</doc-number>
              <kind>T</kind>
              <date>20030215</date>
            </document-id>
          </exch:publication-reference>
          <exch:application-reference data-format="docdb"
xmlns:exch="http://www.epo.org/exchange">
            <document-id>
              <country>AT</country>
              <doc-number>99203729</doc-number>
              <kind>T</kind>
            </document-id>
          </exch:application-reference>
          <exch:priority-claim data-format="docdb"
xmlns:exch="http://www.epo.org/exchange">
            <document-id>
              <country>NL</country>
              <doc-number>1010536</doc-number>
              <kind>A</kind>
            </document-id>
          </exch:priority-claim>
          <ops:legal code="RER" dateMigr="00010101" desc="CEASED AS TO PARAGRAPH 5 LIT.
3 LAW INTRODUCING PATENT TREATIES" infl="-">
            <ops:pre line="00001">AT 99203729T 2003-08-15RER -CEASED AS TO PARAGRAPH
5 LIT.
3 LAW INTRODUCING PATENT TREATIES</ops:pre>
            <ops:L001EP desc="Country Code">AT</ops:L001EP>
            <ops:L002EP desc="Filing / Published Document">F</ops:L002EP>
            <ops:L003EP desc="Document Number">99203729</ops:L003EP>
            <ops:L004EP desc="Kind Code">T</ops:L004EP>
            <ops:L005EP desc="IPR Type">PI</ops:L005EP>
            <ops:L006EP desc="PRS DOCUMENT TYPE">P</ops:L006EP>
            <ops:L007EP desc="Gazette DATE">2003-08-15</ops:L007EP>
            <ops:L008EP desc="Legal Event Code 1">RER</ops:L008EP>
            <ops:L018EP desc="DATE last exchanged">2003-08-28</ops:L018EP>
            <ops:L019EP desc="DATE first created">2003-08-26</ops:L019EP>
            <ops:L500EP/>
          </ops:legal>

```

```

    <exch:exchange-document country="AT" doc-number="232441" family-id="" kind="T"
system="ops.espacenet.com" xmlns:exch="http://www.epo.org/exchange">
    <exch:bibliographic-data>
    <exch:publication-reference data-format="docdb">
    <document-id>
    <country>AT</country>
    <doc-number>232441</doc-number>
    <kind>T</kind>
    <date>20030215</date>
    </document-id>
    </exch:publication-reference>
    <exch:publication-reference data-format="epodoc">
    <document-id>
    <doc-number>AT232441T</doc-number>
    <date>20030215</date>
    </document-id>
    </exch:publication-reference>
    <exch:classification-ipc>
    <text>B28B5/02</text>
    <text>B28B1/29</text>
    <text>B28B7/00</text>
    </exch:classification-ipc>
    <exch:classifications-ipcr>
    <classification-ipcr sequence="1">
    <text>B28B 1/ 00 C I</text>
    </classification-ipcr>
    <classification-ipcr sequence="2">
    <text>B28B 5/ 00 C I</text>
    </classification-ipcr>
    <classification-ipcr sequence="3">
    <text>B28B 7/ 00 C I</text>
    </classification-ipcr>
    <classification-ipcr sequence="4">
    <text>H02P 6/ 08 C I</text>
    </classification-ipcr>
    <classification-ipcr sequence="5">
    <text>B28B 1/ 29 A I</text>
    </classification-ipcr>
    <classification-ipcr sequence="6">
    <text>B28B 5/ 02 A I</text>
    </classification-ipcr>
    <classification-ipcr sequence="7">
    <text>B28B 7/ 00 A I</text>
    </classification-ipcr>
    <classification-ipcr sequence="8">
    <text>H02P 6/ 08 A I</text>
    </classification-ipcr>
    </exch:classifications-ipcr>
    <exch:classification-ecla>
    <classification-symbol>H02P6/08</classification-symbol>
    </exch:classification-ecla>
    <exch:classification-ecla>
    <classification-symbol>B28B1/29</classification-symbol>
    </exch:classification-ecla>
    <exch:classification-ecla>
    <classification-symbol>B28B5/02B2</classification-symbol>
    </exch:classification-ecla>
    <exch:classification-ecla>
    <classification-symbol>B28B7/00F</classification-symbol>
    </exch:classification-ecla>
    <exch:application-reference data-format="epodoc">
    <document-id>
    <doc-number>AT19990203729T</doc-number>
    <date>19991108</date>
    </document-id>
    </exch:application-reference>
    <exch:application-reference data-format="original">
    <document-id>
    <doc-number>99203729</doc-number>
    </document-id>
    </exch:application-reference>
    <exch:priority-claims>
    <exch:priority-claim data-format="epodoc" sequence="1">
    <document-id>
    <doc-number>NL19981010536</doc-number>
    <date>19981112</date>
    </document-id>
    </exch:priority-claim>

```

```

    <exch:priority-claim data-format="original" sequence="1">
      <document-id>
        <doc-number>1010536</doc-number>
      </document-id>
    </exch:priority-claim>
  </exch:priority-claims>
  <exch:parties>
    <exch:applicants>
      <exch:applicant data-format="epodoc" sequence="1">
        <exch:applicant-name>
          <name>BEHEERMIJ DE BOER NIJMEGEN B V (NL)</name>
        </exch:applicant-name>
      </exch:applicant>
      <exch:applicant data-format="original" sequence="1">
        <exch:applicant-name>
          <name>BEHEERMAATSCHAPPIJ DE BOER NIJMEGEN B.V</name>
        </exch:applicant-name>
      </exch:applicant>
    </exch:applicants>
    <exch:inventors>
      <exch:inventor data-format="epodoc" sequence="1">
        <exch:inventor-name>
          <name>KOSMAN WILHELMUS JACOBUS MARIA (NL)</name>
        </exch:inventor-name>
      </exch:inventor>
      <exch:inventor data-format="original" sequence="1">
        <exch:inventor-name>
          <name>KOSMAN, WILHELMUS JACOBUS MARIA</name>
        </exch:inventor-name>
      </exch:inventor>
    </exch:inventors>
  </exch:parties>
  <exch:invention-title lang="de">VORRICHTUNG ZUR HERSTELLUNG VON
STEINFORMLINGEN
F&#220;R DIE ZIEGELINDUSTRIE</exch:invention-title>
</exch:bibliographic-data>
</exch:exchange-document>
</ops:family-member>
[...]
</ops:patent-family>
</ops:world-patent-data>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

As mentioned above the response is enclosed in a 'ops:world-patent-data' element. It also contains the meta data element. The legal and biblio retrieval result has the following structure:

element	attribute(s)	purpose	parent element
ops:patent-family	legal - flag indicating whether legal data is in the current message. False - no legal data is given, True - legal data is given, See LegalRetrieval for further information.	This element contains different 'ops:family-member' elements.	ops:world-patent-data
exch:publication-referencedata-format - the data format of the document key (in this case docdb) xmlns:exch - the namespace of the definition		This element contains data referring to the requested publication. This is the repetition of the input.	ops:patent-family
ops:family-member	none	This element contains a list of publications which are members of the	ops:patent-family

		defined family. See FamilyRetrieval command for the description of the subelements.	
ops:legal	code dateMigr desc infl	This element holds data concerning the legal status of the current publication.	ops:family-member
ops:pre	line	-	ops:legal
ops:L***EP	desc	Different fields describing the legal status are hold in these elements.	ops:legal
exch:exchange-document	country - the country code of the current publication doc-number - the document number of the current publication family-id - the family identifier of the current publication kind - the kind code of the current publication system - the system where the publication / document can be retrieved from	This element contains different elements which holds the bibliographic data. See BiblioRetrieval command for the description of the subelements.	ops:family-member

FulltextInquiry

The FulltextInquiry retrieves document keys fulltext exists for. However, only information referring to the requested document key is returned. In order to get this fulltext use the ClaimsRetrieval and / or DescriptionRetrieval.



Accepted data format

exc:publication-reference, exc:application-reference, exc:priority-claim
ops:publication-reference, ops:application-reference, ops:priority-claim

The following code snippet shows a typical FulltextInquiry command:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ops="http://ops.epo.org"
xmlns:exc="http://www.epo.org/exchange">
  <soapenv:Header/>
  <soapenv:Body>
    <ops:fulltext-inquiry>
      <exc:publication-reference data-format="epodoc">
```

```

    <document-id>
      <doc-number>EP1000000</doc-number>
    </document-id>
  </exc:publication-reference>
</ops:fulltext-inquiry>
</soapenv:Body>
</soapenv:Envelope>

```

The corresponding response looks like follows:

```

<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header/>
  <SOAP-ENV:Body>
    <ops:world-patent-data xmlns:ops="http://ops.epo.org">
      <ops:meta name="elapsed-time" value="398"/>
      <ops:fulltext-inquiry>
        <exc:publication-reference data-format="epodoc"
xmlns:exc="http://www.epo.org/exchange">
          <document-id>
            <doc-number>EP1000000</doc-number>
          </document-id>
        </exc:publication-reference>
        <ops:inquiry-result>
          <exc:publication-reference data-format="docdb"
xmlns:exc="http://www.epo.org/exchange">
            <document-id>
              <country>EP</country>
              <doc-number>1000000</doc-number>
              <kind>A1</kind>
            </document-id>
          </exc:publication-reference>
          <ops:fulltext-instance desc="description" lang="EN" system="ops.espacenet.com">
            <ops:fulltext-format-options>
              <ops:fulltext-format version="1.0">text-only</ops:fulltext-format>
            </ops:fulltext-format-options>
          </ops:fulltext-instance>
          <ops:fulltext-instance desc="claims" lang="EN" system="ops.espacenet.com">
            <ops:fulltext-format-options>
              <ops:fulltext-format version="1.0">text-only</ops:fulltext-format>
            </ops:fulltext-format-options>
          </ops:fulltext-instance>
        </ops:inquiry-result>
      </ops:fulltext-inquiry>
    </ops:world-patent-data>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

As mentioned above the response is enclosed in a 'ops:world-patent-data' element. It also contains the meta data element. The fulltext inquiry result has the following structure:

element	attribute(s)	purpose	parent element
ops:fulltext-inquiry	none	This element holds the inquiry result(s) in 'ops:inquiry-result' elements.	ops:world-patent-data
exc:publication-reference	data-format - the data format of the document key (in this case epodoc) xmlns:exc - the namespace of the definition	This element contains data referring to the requested publication. This is the repetition of the input.	ops:fulltext-inquiry
ops:inquiry-result	none	Every single	ops:fulltext-inquiry

		'inquiry-result' element contains a document key a fulltext instance	
exch:publication-reference	the data format of the document key (in this case docdb) xmlns:exch - the namespace of the definition	This element contains data referring to the requested publication.	ops:inquiry-result
ops:fulltext-instance	system - the system where the publication / document was retrieved from, this identifies the current OPS server	-	ops:inquiry-result
ops:fulltext-format-option	none	-	ops:fulltext-instance
ops:fulltext-format	version - the version of the fulltext format	This element contains the available format of the publication given in exch:publication-reference.	ops:fulltext-format-options

LegalRetrieval

The LegalRetrieval command retrieves legal data of a patent. Legal data in this case are items describing the changes of the patent status during the applying process. Possible statuses are: application for a patent, payment of fees, change of holders name and so on. For every change the date is given.



Accepted data format

exch:publication-reference, exc:application-reference, exc:priority-claim
ops:publication-reference, ops:application-reference, ops:priority-claim

The following code snippet shows a typical LegalRetrieval command:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ops="http://ops.epo.org"
xmlns:exc="http://www.epo.org/exchange">
  <soapenv:Header/>
  <soapenv:Body>
    <ops:legal-retrieval>
      <exc:publication-reference data-format="docdb">
        <document-id>
          <country>EP</country>
          <doc-number>1000000</doc-number>
          <kind>A1</kind>
        </document-id>
      </exc:publication-reference>
    </ops:legal-retrieval>
  </soapenv:Body>
</soapenv:Envelope>
```

The corresponding response looks like follows:

```

<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header/>
  <SOAP-ENV:Body>
    <ops:world-patent-data xmlns:ops="http://ops.epo.org">
      <ops:meta name="elapsed-time" value="4031"/>
      <ops:patent-family legal="true">
        <exch:publication-reference data-format="docdb"
xmlns:exch="http://www.epo.org/exchange">
          <document-id>
            <country>EP</country>
            <doc-number>1000000</doc-number>
            <kind>A1</kind>
          </document-id>
        </exch:publication-reference>
      </ops:family-member>
      <exch:publication-reference data-format="epodoc"
xmlns:exch="http://www.epo.org/exchange">
        <document-id>
          <doc-number>EP1000000</doc-number>
          <date>20000517</date>
        </document-id>
      </exch:publication-reference>
      <exch:publication-reference data-format="docdb"
xmlns:exch="http://www.epo.org/exchange">
        <document-id>
          <country>EP</country>
          <doc-number>1000000</doc-number>
          <kind>A1</kind>
          <date>20000517</date>
        </document-id>
      </exch:publication-reference>
      <exch:application-reference data-format="docdb"
xmlns:exch="http://www.epo.org/exchange">
        <document-id>
          <country>EP</country>
          <doc-number>99203729</doc-number>
          <kind>A</kind>
        </document-id>
      </exch:application-reference>
      <exch:priority-claim data-format="docdb"
xmlns:exch="http://www.epo.org/exchange">
        <document-id>
          <country>NL</country>
          <doc-number>1010536</doc-number>
          <kind>A</kind>
        </document-id>
      </exch:priority-claim>
      <ops:legal code="AK" " dateMigr="00010101" desc="DESIGNATED CONTRACTING
STATES:" infl="+">
        <ops:pre line="00001">EP 99203729A 2000-05-17AK +DESIGNATED CONTRACTING
STATES: Kind Code of Ref
Document A1</ops:pre>
        <ops:pre line="00002">EP 99203729A 2000-05-17AK +DESIGNATED CONTRACTING
STATES: Designated State(s)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE</ops:pre>
        <ops:L001EP desc="Country Code">EP</ops:L001EP>
        <ops:L002EP desc="Filing / Published Document">F</ops:L002EP>
        <ops:L003EP desc="Document Number">99203729</ops:L003EP>
        <ops:L004EP desc="Kind Code">A</ops:L004EP>
        <ops:L005EP desc="IPR Type">PI</ops:L005EP>
        <ops:L006EP desc="PRS DOCUMENT TYPE">P</ops:L006EP>
        <ops:L007EP desc="Gazette DATE">2000-05-17</ops:L007EP>
        <ops:L008EP desc="Legal Event Code 1">AK</ops:L008EP>
        <ops:L018EP desc="DATE last exchanged">2003-01-01</ops:L018EP>
        <ops:L019EP desc="DATE first created">2003-05-28</ops:L019EP>
        <ops:L500EP>
          <ops:L506EP desc="Kind Code of Ref Document">A1</ops:L506EP>
          <ops:L507EP desc="Designated State(s)">AT BE CH CY DE DK ES FI FR GB GR IE
IT LI LU MC NL PT
SE</ops:L507EP>
        </ops:L500EP>
      </ops:legal>
      <ops:legal code="AX" " dateMigr="00010101" desc="EXTENSION OF THE EUROPEAN
PATENT TO" infl="+">
        <ops:pre line="00001">EP 99203729A 2000-05-17AX +EXTENSION OF THE
EUROPEAN PATENT TO Free Format
Text AL;LT;LV;MK;RO;SI</ops:pre>

```

```

<ops:L001EP desc="Country Code">EP</ops:L001EP>
<ops:L002EP desc="Filing / Published Document">F</ops:L002EP>
<ops:L003EP desc="Document Number">99203729</ops:L003EP>
<ops:L004EP desc="Kind Code">A</ops:L004EP>
<ops:L005EP desc="IPR Type">PI</ops:L005EP>
<ops:L006EP desc="PRS DOCUMENT TYPE">P</ops:L006EP>
<ops:L007EP desc="Gazette DATE">2000-05-17</ops:L007EP>
<ops:L008EP desc="Legal Event Code 1">AX</ops:L008EP>
<ops:L018EP desc="DATE last exchanged">2003-01-01</ops:L018EP>
<ops:L019EP desc="DATE first created">2003-05-28</ops:L019EP>
<ops:L500EP>
  <ops:L510EP desc="Free Format Text">AL;LT;LV;MK;RO;SI</ops:L510EP>
</ops:L500EP>
</ops:legal>
[... ]
</ops:family-member>
</ops:patent-family>
</ops:world-patent-data>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```

As mentioned above the response is enclosed in a 'ops:world-patent-data' element. It also contains the meta data element. The legal retrieval result has the following structure:

element	attribute(s)	purpose	parent element
ops:patent-family	legal - flag indicating whether legal data is in the current message. False - no legal data is given, True - legal data is given, See LegalRetrieval for further information.	This element contains different 'ops:family-member' elements.	ops:world-patent-data
exch:publication-referencedata-format	data-format - the data format of the document key (in this case epodoc) xmlns:exch - the namespace of the definition	This element contains data referring to the requested publication. This is the repetition of the input.	ops:patent-family
ops:family-member	none	This element contains a list of publications which are members of the defined family. See FamilyRetrieval command for the description of the subelements.	ops:patent-family
ops:legal	code dateMigr desc infl	This element holds data concerning the legal status of the current publication.	ops:family-member
ops:pre	line	-	ops:legal
ops:L***EP	desc	Different fields describing the legal status are hold in these	ops:legal

		elements.	
--	--	-----------	--

LegalAndBiblioRetrieval

The LegalAndBiblioRetrieval command is a combination of LegalRetrieval and BiblioRetrieval. So legal data as well as biblio data can be retrieved in one single request.



Accepted data format

exc:publication-reference, exc:application-reference, exc:priority-claim
ops:publication-reference, ops:application-reference, ops:priority-claim

The following code snippet shows a typical LegalAndBiblioRetrieval command:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ops="http://ops.epo.org"
xmlns:exc="http://www.epo.org/exchange">
  <soapenv:Header/>
  <soapenv:Body>
    <ops:legal-and-biblio-retrieval>
      <exc:publication-reference data-format="docdb">
        <document-id>
          <country>EP</country>
          <doc-number>1000000</doc-number>
          <kind>A1</kind>
        </document-id>
      </exc:publication-reference>
    </ops:legal-and-biblio-retrieval>
  </soapenv:Body>
</soapenv:Envelope>
```

The corresponding response looks like follows:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header/>
  <SOAP-ENV:Body>
    <ops:world-patent-data xmlns:ops="http://ops.epo.org">
      <ops:meta name="elapsed-time" value="171"/>
      <ops:patent-family legal="true">
        <exch:publication-reference data-format="docdb"
xmlns:exch="http://www.epo.org/exchange">
          <document-id>
            <country>EP</country>
            <doc-number>1000000</doc-number>
            <kind>A1</kind>
          </document-id>
        </exch:publication-reference>
      <ops:family-member>
        <exch:publication-reference data-format="epodoc"
xmlns:exch="http://www.epo.org/exchange">
          <document-id>
            <doc-number>EP1000000</doc-number>
            <date>20000517</date>
          </document-id>
        </exch:publication-reference>
      <exch:publication-reference data-format="docdb"
xmlns:exch="http://www.epo.org/exchange">
          <document-id>
            <country>EP</country>
            <doc-number>1000000</doc-number>
            <kind>A1</kind>
            <date>20000517</date>
          </document-id>
        </exch:publication-reference>
      </ops:family-member>
    </ops:world-patent-data>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

```

        </document-id>
    </exch:publication-reference>
    <exch:application-reference data-format="docdb"
xmlns:exch="http://www.epo.org/exchange">
    <document-id>
        <country>EP</country>
        <doc-number>99203729</doc-number>
        <kind>A</kind>
    </document-id>
    </exch:application-reference>
    <exch:priority-claim data-format="docdb"
xmlns:exch="http://www.epo.org/exchange">
    <document-id>
        <country>NL</country>
        <doc-number>1010536</doc-number>
        <kind>A</kind>
    </document-id>
    </exch:priority-claim>
    <ops:legal code="AK" dateMigr="00010101" desc="DESIGNATED CONTRACTING
STATES:" infl="+">
        <ops:pre line="00001">EP 99203729A 2000-05-17AK +DESIGNATED CONTRACTING
STATES: Kind Code of Ref
Document A1</ops:pre>
        <ops:pre line="00002">EP 99203729A 2000-05-17AK +DESIGNATED CONTRACTING
STATES: Designated State(s)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE</ops:pre>
        <ops:L001EP desc="Country Code">EP</ops:L001EP>
        <ops:L002EP desc="Filing / Published Document">F</ops:L002EP>
        <ops:L003EP desc="Document Number">99203729</ops:L003EP>
        <ops:L004EP desc="Kind Code">A</ops:L004EP>
        <ops:L005EP desc="IPR Type">PI</ops:L005EP>
        <ops:L006EP desc="PRS DOCUMENT TYPE">P</ops:L006EP>
        <ops:L007EP desc="Gazette DATE">2000-05-17</ops:L007EP>
        <ops:L008EP desc="Legal Event Code 1">AK</ops:L008EP>
        <ops:L018EP desc="DATE last exchanged">2003-01-01</ops:L018EP>
        <ops:L019EP desc="DATE first created">2003-05-28</ops:L019EP>
        <ops:L500EP>
            <ops:L506EP desc="Kind Code of Ref Document">A1</ops:L506EP>
            <ops:L507EP desc="Designated State(s)">AT BE CH CY DE DK ES FI FR GB GR IE
IT LI LU MC NL PT
SE</ops:L507EP>
        </ops:L500EP>
    </ops:legal>
    <ops:legal code="AX" dateMigr="00010101" desc="EXTENSION OF THE EUROPEAN
PATENT TO" infl="+">
        <ops:pre line="00001">EP 99203729A 2000-05-17AX +EXTENSION OF THE
EUROPEAN PATENT TO Free Format
Text AL;LT;LV;MK;RO;SI</ops:pre>
        <ops:L001EP desc="Country Code">EP</ops:L001EP>
        <ops:L002EP desc="Filing / Published Document">F</ops:L002EP>
        <ops:L003EP desc="Document Number">99203729</ops:L003EP>
        <ops:L004EP desc="Kind Code">A</ops:L004EP>
        <ops:L005EP desc="IPR Type">PI</ops:L005EP>
        <ops:L006EP desc="PRS DOCUMENT TYPE">P</ops:L006EP>
        <ops:L007EP desc="Gazette DATE">2000-05-17</ops:L007EP>
        <ops:L008EP desc="Legal Event Code 1">AX</ops:L008EP>
        <ops:L018EP desc="DATE last exchanged">2003-01-01</ops:L018EP>
        <ops:L019EP desc="DATE first created">2003-05-28</ops:L019EP>
        <ops:L500EP>
            <ops:L510EP desc="Free Format Text">AL;LT;LV;MK;RO;SI</ops:L510EP>
        </ops:L500EP>
    </ops:legal>
    [...]
    <exch:exchange-document country="EP" doc-number="1000000" family-id="" kind="A1"
system="ops.espacenet.com" xmlns:exch="http://www.epo.org/exchange">
    <exch:bibliographic-data>
        <exch:publication-reference data-format="docdb">
            <document-id>
                <country>EP</country>
                <doc-number>1000000</doc-number>
                <kind>A1</kind>
                <date>20020517</date>
            </document-id>
        </exch:publication-reference>
        <exch:publication-reference data-format="epodoc">
            <document-id>
                <doc-number>EP1000000</doc-number>
                <date>20020517</date>
            </document-id>
        </exch:publication-reference>
    </exch:bibliographic-data>
    </exch:exchange-document>

```

```

</document-id>
</exch:publication-reference>
<exch:classification-ipc>
  <text>B28B5/02</text>
  <text>B28B1/29</text>
  <text>B28B7/00</text>
</exch:classification-ipc>
<exch:classifications-ipcr>
  <classification-ipcr sequence="1">
    <text>B28B 1/ 00 C I</text>
  </classification-ipcr>
  <classification-ipcr sequence="2">
    <text>B28B 5/ 00 C I</text>
  </classification-ipcr>
  <classification-ipcr sequence="3">
    <text>B28B 7/ 00 C I</text>
  </classification-ipcr>
  <classification-ipcr sequence="4">
    <text>H02P 6/ 08 C I</text>
  </classification-ipcr>
  <classification-ipcr sequence="5">
    <text>B28B 1/ 29 A I</text>
  </classification-ipcr>
  <classification-ipcr sequence="6">
    <text>B28B 5/ 02 A I</text>
  </classification-ipcr>
  <classification-ipcr sequence="7">
    <text>B28B 7/ 00 A I</text>
  </classification-ipcr>
  <classification-ipcr sequence="8">
    <text>H02P 6/ 08 A I</text>
  </classification-ipcr>
</exch:classifications-ipcr>
<exch:classification-ecla>
  <classification-symbol>H02P6/08</classification-symbol>
</exch:classification-ecla>
<exch:classification-ecla>
  <classification-symbol>B28B1/29</classification-symbol>
</exch:classification-ecla>
<exch:classification-ecla>
  <classification-symbol>B28B5/02B2</classification-symbol>
</exch:classification-ecla>
<exch:classification-ecla>
  <classification-symbol>B28B7/00F</classification-symbol>
</exch:classification-ecla>
<exch:application-reference data-format="epodoc">
  <document-id>
    <doc-number>EP19990203729</doc-number>
    <date>19991108</date>
  </document-id>
</exch:application-reference>
<exch:application-reference data-format="original">
  <document-id>
    <doc-number>99203729</doc-number>
  </document-id>
</exch:application-reference>
<exch:priority-claims>
  <exch:priority-claim data-format="epodoc" sequence="1">
    <document-id>
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bricks from clay for the brick
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combined to mould container parts
(4), a reservoir (5) for clay arranged above the mould containers, means for carrying clay out
of the reservoir (5) into the
mould containers, means (9) for pressing and trimming clay in the mould containers, means (11)
for supplying and placing
take-off plates for the green bricks (13) and means for discharging green bricks released from
the mould containers,
characterized in that the apparatus further comprises means (22) for moving the mould container
parts (4) filled with green
bricks such that a protruding edge is formed on at least one side of the green bricks.
&lt;IMAGE&gt;</exch:p>
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As mentioned above the response is enclosed in a 'ops:world-patent-data' element. It also contains the meta data element. The legal and biblio retrieval result has the following structure:

element	attribute(s)	purpose	parent element
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ops:patent-family	legal - flag indicating whether legal data is in the current message. False - no legal data is given, True - legal data is given, See LegalRetrieval for further information.	This element contains different 'ops:family-member' elements.	ops:world-patent-data
ops:family-member	none	This element contains a list of publications which are members of the defined family. See FamilyRetrieval command for the description of the subelements.	ops:patent-family
ops:legal	code dateMigr desc infl	This element holds data concerning the legal status of the current publication.	ops:family-member
ops:pre	line	-	ops:legal
ops:L***EP	desc	Different fields describing the legal status are hold in these elements.	ops:legal
exch:exchange-document	country - the country code of the current publication doc-number - the document number of the current publication family-id - the family identifier of the current publication kind - the kind code of the current publication system - the system	This element contains different elements which holds the bibliographic data. See BiblioRetrieval command for the description of the subelements.	ops:family-member

	where the publication / document can be retrieved from		
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