API Industrial Property (IP)

Patents – Trademarks
Designs and Models

Technical documentation for using PI APIs

Version 1.0 of 10/11/2021

inpi
INSTITUT NATIONAL
DE LA PROPRIÉTÉ
INDUSTRIELLE

INPI

SUMMARY

1. VERSIONS

Version	Date
Version 1.0	10/11/2021

2. SCOPE

The INPI Industrial Property (IP) APIs provide access to the content of patents, trademarks and designs accessible on DATA INPI (https://data.inpi.fr)

2.1 Patent Data

2.1.1. Coverage

• French (FR) patent applications or utility certificates published from 1902

• European applications (EP) published by the EPO (European Patent Office) from 1978, i.e. since the beginning

• International applications (WO) published by WIPO (World Intellectual Property Organization) intellectual) from 1978, that is, from the beginning

• Applications for supplementary protection certificates (SPC) published in France from from 1993

2.1.2. Content offered

• Complete notices • Images of abstracts for FR applications since 1978

• Original documents: o
applications (FR-A) since 1978
o patents issued (FR-B) since 1989
o French translations of claims (EP T1) o French translations of EP patents (EP-T2) issued from 1995 to 2008
(no longer exist since 2009)
o requests for limitations of EP patents in the French phase (EP-RL, BL, NL)

Content not available but accessible from the Patent Database on DATA INPI (https://data.inpi.fr) : • original documents of applications

(FR A) from 1902 to 1977, EP and WO applications

• abstract images for EP and WO applications

• patent family

This information comes from the European Patent Office (EPO) and is accessible via the OPS webservice (Open service): http://www.epo.org/searching-for-patent patents /technical/espacenet/ ops_fr.html#tab1

• documents from the FR application delivery file

2.1.3. Data update
Updated weekly, on Fridays.

2.2   Brand data

2.2.1. Coverage

• French trademarks (FR) in force or not, registered with the INPI, from 1976 •
European trademarks (EU) in force, registered with the EUIPO (the European Union Office
    for intellectual property) from 1996
• International trademarks (WO) in force, designating France or not and registered with WIPO
    (World Intellectual Property Organization) from 1891

2.2.2. Content offered
• Complete trademark notices
• Images or files:
      o for FR trademarks since 1982: logos of (semi)-figurative trademarks, images of
         word marks o for
      EU trademarks: logos of (semi) trademarks o for
      WO trademarks: logos of (semi)-figurative trademarks
• BOPI (Official IP Bulletin) pages having cited FR trademarks since 1982.

2.2.3. Data update
Updated weekly, on Fridays.

2.3 Design data and models

2.3.1. Coverage

• French designs (FR) published since 1910
• International designs (WO) published by WIPO (World Intellectual Property Organization)
    intellectual property) since 1979

2.3.2. Content offered
• Complete design or model notices
• Images of the reproductions:
      o for FR designs and models since 1910
      o for WO designs since 1985

Please note: a design and model filing identified by its No. (FR985496) may contain several
designs or models each identified by a sequence No. (FR985496-001, 002, 003, etc.).
Each design or model may include several reproductions (images).
The displayed notices are at the design or model level
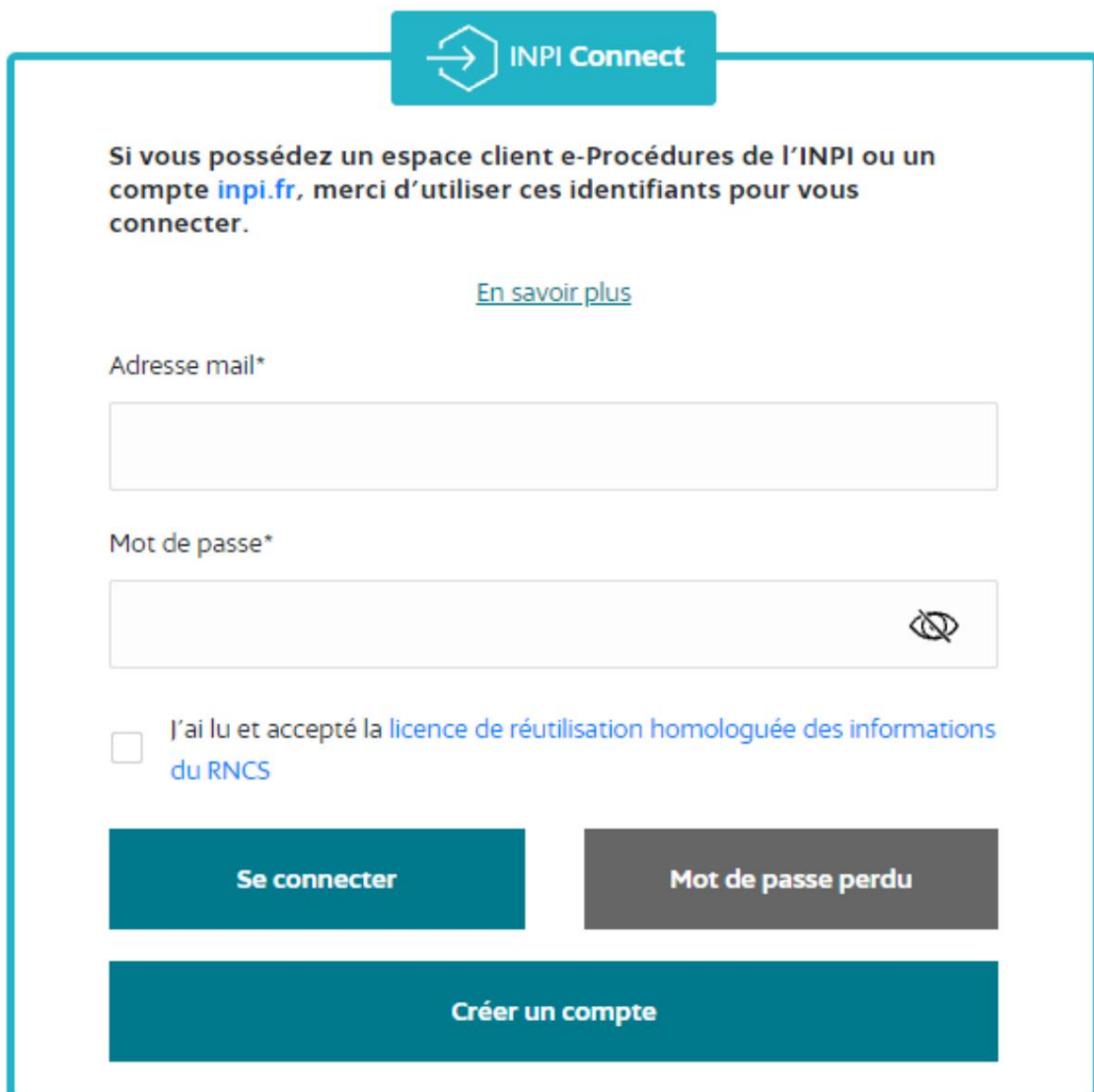
2.3.3. Data update

Update: every Friday for international designs, every other Friday for French designs.

3. Connection to the "PI API" via a technical account

3.1 Creation of the DATA INPI user account

To access the PI APIs, you must create your account on DATA INPI using a valid email address or use your existing account, via the link: https://data.inpi.fr/login :

3.2 Content selection

Then, you select the proposed content: Trademarks / Patents / Designs & Models, under "My customer area", "PI API Access" tab: https://data.inpi.fr/espace_personnel/acces

3.3 Validation of the APIs PI technical account

When your request for access to content is finalized on DATA's "My customer area" INPI, a link to activate the **PI diffusion APIs** account is sent to your email address from *nepasrepondre@inpi.fr.* It allows you to create your password on the interface https://api-gateway.inpi.fr/.

3.4 Swagger Recovery (for testing)

Once logged into your PI APIs account, you can access the swaggers:

https://api-gateway.inpi.fr/docs
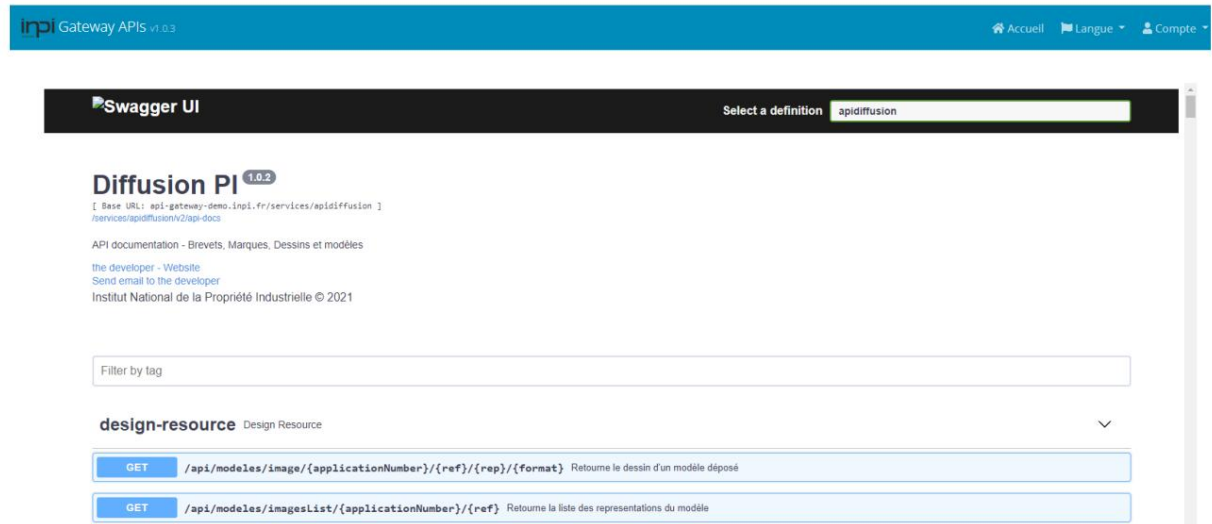
Log in with the PI swagger API login/password

3.5   Prerequisites

The implementation is done in curls commands under Unix.

The description below shows how to connect to the PI APIs.

3.6   Generation of the XSRD Token -Token

Run the following command to create a $TOKEN variable via a cookies.txt file:

curl -k --tlsv1.2 -v -c cookie.txt https:// api-gateway.inpi.fr/ services/ uaa/ api/ authenticate export TOKEN=`cat cookie.txt | grep XSRF-TOKEN | awk '{print $7}'` echo "TOKEN = " $TOKEN

With the following options:

-k: do not verify the ssl certificate --
tlsv1.2: protocol https -v:
verbose to read the response headers -c: store
the operation information in a cookie

3.7   Login

Run the following command to connect to the **PI APIs** using the account login
technical email / password that you created (see section §3.3).

*export ID1=`curl -k --tlsv1.2 -b cookie.txt -c cookie.txt -v 'https://api-gateway.inpi.fr/auth/login' -H 'Accept: application/
json, text/plain, */*' -H "X-XSRF-TOKEN: $TOKEN" -H 'Content-Type: application/json' -H 'Connection:
keep-alive' -H "Cookie: XSRF-TOKEN= $TOKEN" --data
'{"username":"pnom","password":"wordpass","rememberMe":true}'`*

With the following options:

-b: the cookie information is also sent back to the server, so we give it the XSRF-TOKEN in another way, sending it
back via the header is not enough or we have to add in the header -H "Cookie: XSRF-TOKEN=b66f77fc-415c-4e22-9fee-
dc46b65615ad"

-c: Stores other tokens that are returned with the response

3.8   Generation of access_token variables and refresh_token

export access_token=`cat cookie.txt | grep access_token | awk '{print $7}'`; echo
access_token = "$access_token

export refresh_token=`cat cookie.txt | grep refresh_token | awk '{print $7}'`; echo
refresh_token = "$refresh_token

4. API PI Patents

List of available APIs:

Service	API	Fashion	Response format
Obtain notice of a patent application	notice	get	xml
Get the abstract image	picture	get	gif, jpeg, tiff
Obtain the list of original documents of a patent	documents	post	default json, xml
Obtain an original document	document	get	pdf
To research	search	post	default json, xml

4.1 API Patents notice

Allows you to obtain the notice in XML format of a patent application.

The method is GET.

UNIX implementation example:

curl --tlsv1.2-b cookie.txt 'https://api-gateway.inpi.fr/services/apidiffusion/api/brevets/notice/pubnum/EP3813503' -H 'Accept:
application/xml' -H "X-XSRF-TOKEN: $TOKEN" -H "Cookie: XSRF-TOKEN=$TOKEN; access_token=$access_token;
session_token=$refresh_token" result/brevets_notice_EP3813503.xml

>

4.2 API Patents abstract image

Allows you to obtain the abstract image.

The method is GET.

UNIX implementation example:

curl --tlsv1.2-b cookie.txt 'https://api-gateway.inpi.fr/services/apidiffusion/api/brevets/image/FR2979292' -H 'Accept: image/
png' -H "X-XSRF-TOKEN: $TOKEN" -H "Cookie: XSRF-TOKEN=$TOKEN; access_token=$access_token;
session_token=$refresh_token" -o result/brevets_image_FR2979292.png

4.3 API Patents list of documents FR / EP

Allows you to obtain the list of documents attached to a patent application.

The method is GET.

UNIX implementation example:

4.3.1. Patent list of French documents (FR)

```
curl --tlsv1.2 gateway.inpi.fr/          -b          cookie.txt          -c          cookie.txt          -v          'https://
services/apidiffusion/api/brevets/documents/FR2979290' application/xml'                    -H          api-'accept:
                    -H "X-XSRF-TOKEN: $TOKEN" -H "Cookie: XSRF-TOKEN=$TOKEN;
access_token=$access_token; result/                    session_token=$refresh_token"                    >
brevet_liste_document_FR.xml
```

4.3.2. Patent list European documents (EP)

```
#Patent list of EP documents
curl          -k          --tlsv1.2          -b          cookie.txt          -c          cookie.txt          -v          'https://
gateway.inpi.fr/services/apidiffusion/api/brevets/documents/EP0810451' application/xml'          -H          api-'accept:
-H "X-XSRF-TOKEN: access_token=$access_token;   $TOKEN" -H "Cookie: XSRF-TOKEN=$TOKEN;
resultat/brevet_liste_document_EP.xml                    session_token=$refresh_token"                    >
```

4.4 API Patents search

Allows you to obtain a list of results from search criteria.

The method is POST.

4.4.1. Query parameters

Setting		Description, value
collections	string	search scope, multi-occurring parameter: FR, EP, WO, CCP
query	string	questions using INPI syntax (SolR indexing engine): ex : [TISI=542065479]
fields	string	List of fields displayed by default: PUBN *(publication number)*, NAT (nature of application), TIT *(title)*, PUBD *(publication date)*, DEPN *(filing number)*, DEPD *(filing date)*, IPRC *(classifications* *CIB)*, INVNM, INVNE *(inventor name)*, DENM,DENE (applicant name)
position	int	Starting position in the results list for pagination: default: 0; Min: 0 / Max: 500

Setting		Description, value
size	int	Number of results sent: default: 20; Min: 0 / Max: 500
spell	string	Sorting results, fields and order: by default: descending on PUBLICATION_DATE *(publication date)* then PUBLICATION_NUMBER *(publication number,* possible options on PUBLICATION_DATE, APPLICATION_DATE or PUBLICATION_NUMBER in mode: ASC *(ascending)* or DESC *(descending)*

Note: only the " collections " and " query " parameters are essential, the others have default values.

4.4.2. UNIX Implementation Example

curl -X POST -k --tlsv1.2 -v 'https://api-gateway.inpi.fr/services/apidiffusion/api/brevets/search' -H 'accept: application/xml' -H 'Content-Type: application/json' -H "X-XSRF-TOKEN: $TOKEN" -H "Cookie: XSRF-TOKEN=$TOKEN; access_token=$access_token; session_token=$refresh_token" -d '{ "collections": ["FR", "WO"], "query": "[DLVD=20160902]"}' > result/brevets_search.xml

4.4.3. Search criteria

Search on:	search
FR, EP, WO and "collections" CCP	requests : *["FR", "WO","EP", "CCP"],* **"query":** *"[DLVD=20160902]*

Search index on query:

Search by		Criteria Description; value
title or abbreviation (keywords in French)	TIT ABFR	=[(TIT OR ABFR)=(size* hedge*)]
filing or publication number	DEPN PUBN	=[(DEPN OR PUBN)=FR2928554]
classification: CIB or CPC	IPCR CPC	=[(IPCR OR CPC)=H03K17] Possible formats: **H03** , **H03K, H03K17, H03K17/687**
name or siren of the depositor	DENM, DENMA, DENE, DENEA DESI	No siren for WOs =([(DENM OR DENMA OR DENE OR DENEA)=(liquid air)] OR [DESI=552096281])
name or siren of the holder	TINM TISI	No siren for WOs =([TINM=(liquid air)] OR [TISI=552096281])
depositor's department	DEPFR	For FR only =[DEPFR=54]

Search by	Criteria Description; value	
inventor's name	INVNM INVNEA	=[(INVNM OR INVNEA)=(philippe dubois)]
name or siren of the agent	AGNM AGSI	For FR only =([AGNM=Bleger] OR [AGSI=401798400])
publication date	PUBD	=[PUBD=20160902] =[PUBD=20160902:99999999] Possible formats: **YYYY, YYYYMM, YYYYMMDD**
filing date	DEPD	=[DEPD=20150130] Possible formats: **YYYY, YYYYMM, YYYYMMDD**
date of issue	DLVD	=[DLVD=20160902] Possible formats: **YYYY, YYYYMM, YYYYMMDD**
priority date	PRD	=[PRD=20140902] Possible formats: **YYYY, YYYYMM, YYYYMMDD**
registration number in the Register patents	RNBN	=[RNBN=199083]
Version		=[v=2017191]

4.4.4. Search syntax

The search can include the Boolean operators: AND, OR, EXCEPT and the following wildcards: ? (for 0 or 1 character) and ***** (for 0 or n characters).

Each pair of search criteria / search term(s) is enclosed in brackets "[" and "]": **[CRITERIA = TERM]: [TIT=size*]**

When several criteria are present, they are enclosed in parentheses and separated by the authorized operators (AND, OR and EXCEPT): **[(CRITERIA1 OR CRITERIA2) = (TERM1 OR TERM2)]:**
[(TIT OR ABFR) = (size* AND hedge*)]

In the absence of operators at the term level, the default operator applies:
[(CRITERIA 1 OR CRITERIA 2) = (TERM 1 TERM 2 TERM 3)] : [(TIT OR ABFR) = (size* hedge*)]

It is possible to combine several criterion/term pairs which must then be separated by the authorized operators (AND, OR EXCEPT): **[[CRITERIA1 = TERM1] AND [CRITERIA2 = TERM2] AND**
[CRITERION3 = TERM3]] : [[(DENM OR DENMA OR DENE OR DENEA)=(liquid air) OR
[DESI=552096281])

4.4.5.HTTPS Header

- Accept: application/json or application/xml
- http x-forwarded-for: information on the author of the request, essential for management
  user quotas.

4.4.6. Error messages

200: OK answer
400: bad request: invalid request
404: not found: reference not found
500: Server Error: Unexpected Error

4.4.7. OK response

- application/json by default if the "Accept" header is not present
- application/xml

5. API Brands

List of available APIs:

Service	API	Fashion	Response format
Obtain the instructions for a brand	notice	get	xml
Get a picture of brand	picture	get	gif, jpeg, tiff
Obtain a brand's BOPI pages	bopi	get	pdf
To research	search	post	default json, xml
Get database update information	metadata	get	default json, xml

5.1   API Brands notice

Allows you to obtain the notice for a brand.

The method is GET.

UNIX implementation example:

```
curl cookie.txt 'https://api-gateway.inpi.fr/services/apidiffusion/api/marques/notice/FR4216963' -v -H 'Accept:
xml' -H "X-XSRF-TOKEN: $TOKEN" -H "Cookie: XSRF-TOKEN=$TOKEN; application/
access_token=$access_token; session_token=$refresh_token" result/marques_notice_FR4216963.xml >
```

5.2   API PI Brands image

Allows you to obtain the image (logo) associated with a brand.

The method is GET.

UNIX implementation example:

```
curl --tlsv1.2 cookie.txt 'https://api-gateway.inpi.fr/services/apidiffusion/api/marques/image/FR4216963/std' cookie.txt
-H 'Accept: $TOKEN"
access_token=$access_token; -H "Cookie: XSRF-TOKEN=$TOKEN; image/png' -H "X-XSRF-TOKEN:
session_token=$refresh_token" result/marques_image_FR4216963.png -o
```

5.3   API PI BOPI Brands

The service returns the PDF file associated with the Trademark Copy Section

The method is GET.

UNIX Implementation Example

```
curl --tlsv1.2 cookie.txt gateway.inpi.fr/services/apidiffusion/api/marques/bopi/FR4221057' -v 'https://api-
application/pdf' access_token=$access_token; session_token=$refresh_token" > result/ -H 'accept:
bopi_marques.pdf -H "X-XSRF-TOKEN: $TOKEN" -H "Cookie: XSRF-TOKEN=$TOKEN;
```

5.4 API PI Brands search

Allows you to obtain a list of results from search criteria.

The method is POST.

5.4.1. Query parameters

Setting		Description, value
collections	string	search scope, multi-parameter occurent: FR, EU, WO
query	string	questions using INPI syntax (SolR indexing engine): e.g.: [ApplicantIdentifier=542065479]
fields	string	List of fields displayed by default: ApplicationNumber *(trademark number),* Mark *(brand name),* ClassNumber *(class of goods and services),* MarkCurrentStatusCode *(trademark status),* APPLICANT *(applicant),* ukey
position	int	Starting position in the results list for pagination: default: 0; Min: 0 / Max: 500
size	int	Number of results sent: default: 20; Min: 1 / Max: 200
spell	string	Sorting results: field and order: default: descending on APPLICATION_DATE *(filing date)* or possible choice on: DEPOSITOR *(depositor name)* or MARK *(brand name),* in mode: ASC *(ascending)* or DEC *(descending)*

Note: only the "collections" and "query" parameters are essential, the others have default values.

5.4.2. UNIX Implementation Example

```
curl -X POST -k --tlsv1.2 -v 'https://api-gateway.inpi.fr/services/apidiffusion/api/marques/search'
-H 'accept: application/xml' -H 'Content-Type: application/json' -H "X-XSRF-TOKEN: $TOKEN" -
      "Cookie:        XSRF-TOKEN=$TOKEN; access_token=$access_token; H session_token=$refresh_token"
-d '{ "collections": [ "FR", "WO" ], "query": "[(Mark OR APPLICANT)=inpi]"}' > result/marques_search.xml
```

5.4.3. Search criteria

Search on:	search
the FR, EU and WO **"collections"**	brands : *["FR", "WO", "EU"]*
the brands in force	=[ExpiryDate=YYYYMMDD:99991231] *with YYYYMMDD = today's date*

Search index:

Search by	Index	Description; value
brand number	ApplicationNumber	=[ApplicationNumber=4216963]
brand name	Mark_Exp NGram_Mark*	Examples: =[Mark_Exp=house of innovators] **begins with :** =[Mark_Exp=archidat*] **contains :** =[NGram_mark=chidat]
product class(es) and services	ClassNumber	=[ClassNumber=(9 OR 16)] Possible format: integer from 1 to 45
siren of the depositor or holder**	ApplicantIdentifier	For FR brands only: =[ApplicantIdentifier=10080012]
name of depositor or holder	DEPOSITOR DEPOSIT	=[(DEPOSITOR OR DEPOSIT)=INPI]
siren or name of the depositor or holder**		=([ApplicantIdentifier=180080012] OR [(DEPOSITOR OR DEPOSIT)=INPI]) *Better !!*=[ApplicantIdentifier=180080012] OR [DEPOSITOR=INPI] OR [DEPOSITOR=INPI]
agent name	Representative_LastN soul	=[Representative_LastName=INPI]
filing/ of registration date	Application Date	=[ApplicationDate=20150707] =[ApplicationDate=20160101:99991231] Possible formats: YYYY*, YYYYMM*, YYYYMMDD

The search can include the Boolean operators: AND, OR NOT

Notes

*the index should be used with caution, it can generate "noise" in the responses

Siren if available: for applicant or **last holder having renewed the trademark

5.4.4. Search syntax

The search can include the Boolean operators: AND, OR, EXCEPT and the following wildcards: ? (for 0 or 1 character) and * (for 0 or n characters)

Each pair of search criteria / search term(s) is enclosed in brackets "[" and "]": **[CRITERIA = TERM]: [APPLICANT = INPI]**

When several criteria are present, they are enclosed in parentheses and separated by the authorized operators (AND, OR and EXCEPT): **[(CRITERIA1 OR CRITERIA2) = (TERM1 OR TERM2)]:**
[(DEPOSITOR OR DEPOSIT) = (institute AND national AND property AND industrial)]

In the absence of operators at the term level, the default operator applies:
[(CRITERIA 1 OR CRITERIA 2) = (TERM 1 TERM 2 TERM 3)] : [(DEPOSITOR OR DEPOSIT) = (national industrial property institute)]

It is possible to combine several criterion/term pairs which must then be separated by the authorized operators (AND, OR EXCEPT): **[CRITERIA1 = TERM1] AND [CRITERIA2 = TERM2] AND [CRITERIA3 = TERM3] :** [APPLICANT=INPI] OR [DESI=180080012]

5.4.5.HTTPS Header

• Accept: application/json or application/xml
• http x-forwarded-for: information on the author of the request, essential for management user quotas.

5.4.6. Error messages

200: OK answer
400: bad request: invalid request
404: not found: reference not found
500: Server Error: Unexpected Error

5.4.7. OK response

• application/json by default if the "Accept" header is not present
• application/xml

6. API Designs and Models

List of available APIs:

Service	API	Response Format Mode	
Obtain the instructions for a model	notice	get	xml
Get the list of reproductions for a model	imagesList	get	json
Obtain a reproduction of the model	picture	get	gif, jpeg, tiff, png
To research	search	post	default json, xml
Get database update information	metadata	get	default json, xml

6.1 API Designs and Models notice

Allows you to obtain the notice of a design and model.

The method is GET.

UNIX implementation example:

```
curl --tlsv1.2 -bhttps://api-gateway.inpi.fr/services/apidiffusion/api/modeles/notice/FR20140182' -v
cookie.txt                                                                          -H        'Accept:
application/xml' -H "X-XSRF-TOKEN: $TOKEN" -H "Cookie:
                                                                                         >
```

6.2 API Designs and Models list

Allows you to obtain the notice of a design and model.

The method is GET.
The query is done by model number.

A model contains a maximum of 100 associated reproductions.

UNIX implementation example:

```
curl --tlsv1.2 -b cookie.txt cookie.txt 'https://api-gateway.inpi.fr/services/apidiffusion/api/modeles/imagesList/FR20140184/001' -v
-H 'Accept: application/xml' -H "X-XSRF-TOKEN: $TOKEN" -H "Cookie: XSRF-TOKEN=$TOKEN; access_token=$access_token;
session_token=$refresh_token" result/modele_liste_images_FR20140182.xml
                                                                                         >
```

6.3 API PI Designs and Model image

Allows you to obtain the reproduction of a design & model.

The method is GET.

UNIX implementation example:

```
curl cookie.txt 'https://api-gateway.inpi.fr/services/apidiffusion/api/modeles/image/FR20140183/001/001/std' --tlsv1.2 -b cookie.txt
                                                                                         -H
'Accept: image/png' -H "X-XSRF-TOKEN: $TOKEN" -H "Cookie: XSRF-TOKEN=$TOKEN" -o resultat/
modele_image_FR20140183.png
```

6.4 API PI Designs and Models search

6.4.1. Query parameters

Setting		Description, value
collections	string	search scope, multi-occurring parameter: FR, WO
query	string	questions using INPI syntax (SolR indexing engine): e.g.: [ApplicantIdentifier=542065479]
fields	string	List of fields displayed by default: DesignApplicationNumber *(filing number),* DesignApplicationDate *(filing date),* DesignTitle *(object),* DesignReference *(model number),* PublicationDate *(publication date),* DEPOSANT (applicant), ClassNumber (classification), FIRSTVIEWNUMBER *(1st reproduction),* ViewNumber *(number of reproductions),* TotalRepresentationSheet *(number of reproductions in the model),* ukey
position	int	Starting position in the results list for pagination: default: 0; Min: 0 / Max: 200
size	int	Number of results sent: default: 20; Min: 1 / Max: 100
spell	string	Sorting results: field and order: default: descending on PUBLICATION_DATE *(publication date)* but choice possible on: APPLICATION_DATE *(filing date)* or APPLICANT *(applicant name)* in mode: ASC *(ascending)* or DESC *(descending)*

Note: Only the "collections" and "query" parameters are required. The others have default values.

6.4.2. UNIX Implementation Example

```
curl -X POST -k --tlsv1.2 -v 'https://api-gateway.inpi.fr/services/apidiffusion/api/modeles/search' -H 'accept: application/xml' -H 'Content-Type: application/json' -H "X-XSRF-TOKEN: $TOKEN" -H "Cookie: DesignApplicationDate)=20140117]"}'
> result/modeles_search.xml
```

6.4.3. Search criteria

Search on:	https://opendata-pi.inpi.fr/inpi/modeles/search?
the d&m FR and WO	collections=FR&collections=WO&query
the current models	=[ExpiryDate=YYYYMMDD:99991231] *with YYYYMMDD = today's date*

Search index:

Search by	Criteria	Description; value
deposit number	DesignApplicationNumber	=[DesignApplicationNumber =095310]
publication number	ViewNumber	=[ViewNumber=908062]
name of the depositor's siren number	Depositor Identify	=([DEPOSITOR=Louis Vuitton] OR [ApplicantIdentifier=318571064])
holder name	DEPOSIT	=[DEPOTIT=Louis Vuitton]
name of representative	Representative	=[AUTHORIZED REPRESENTATIVE=Louis Vuitton]
object	Design Title	=[DesignTitle=wheelchair*]
filing date	DesignApplicationDate	=[DesignApplicationDate =20160720] Possible formats: YYYY*, YYYYMM*, YYYYMMDD
of publication date	Publication Date	=[PublicationDate=20161007] or Publication Date =[=20161007 :99999999] Possible formats: YYYY*, YYYYMM*, YYYYMMDD
classification of Locarno	ClassNumber	=[ClassNumber=07] Possible formats: class level: integer from 01 to 32, subclass level: ex: 0101, 3009

6.4.4. Search syntax

The search can include the Boolean operators: AND, OR, EXCEPT and the following wildcards: ? (for 0 or 1 character) and * (for 0 or n characters)

Each pair of search criteria / search term(s) is enclosed in brackets "[" and "]": **[CRITERIA = TERM]: [DesignTitle = armchair*]**

When several criteria are present, they are enclosed in parentheses and separated by the authorized operators (AND, OR and EXCEPT): **[(CRITERIA1 OR CRITERIA2) = (TERM1 OR TERM2)]: [DesignTitle = (chair* AND wheelchair*)]**

In the absence of operators at the term level, the default operator applies: **[(CRITERIA1 OR CRITERIA2) = (TERM1 TERM2 TERM3)] : [DesignTitle = (wheelchair*)]**

It is possible to combine several criterion/term pairs which must then be separated by the authorized operators (AND, OR EXCEPT): **([CRITERIA1 = TERM1] AND [CRITERIA2 = TERM2] AND [CRITERIA3 = TERM3]) : ([Applicant = Louis Vuitton] OR [ApplicantIdentifier = 318571064])**

6.4.5.HTTPS Header

• Accept: application/json or application/xml
• http x-forwarded-for: information on the author of the request, essential for managing user quotas.

6.4.6. Error messages

200: OK answer
400: bad request: invalid request
404: not found: reference not found
500: Server Error: Unexpected Error

6.4.7. OK response

• application/json by default if the "Accept" header is not present
• application/xml

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