

Prior Art Search

- Entry level -

Japan Patent Office

- I. Basics of Prior Art Search
- II. Search Strategy
- III. Search Tool - J-PlatPat
- IV. Search Tool - PATENTSCOPE

I. Basics of Prior Art Search

II. Search Strategy

III. Search Tool - J-PlatPat

IV. Search Tool - PATENTSCOPE

A. Backgrounds - 1/3

In Japan,

an Examiner shall, as the administrative agency,
determine whether a patent shall be granted or rejected
for the examined patent applications according to the
given regulatory requirements to decide granting or
rejecting a patent

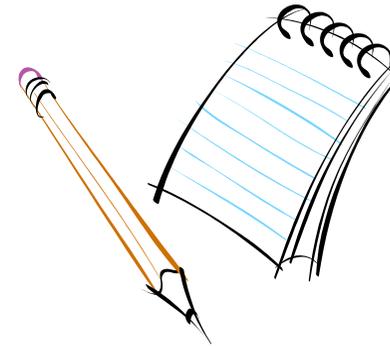
(Japanese Patent Act Articles 47, 49, 50, and 51)



A. Backgrounds - 2/3

Among regulatory requirements for patent, those closely related to a prior-art document search are

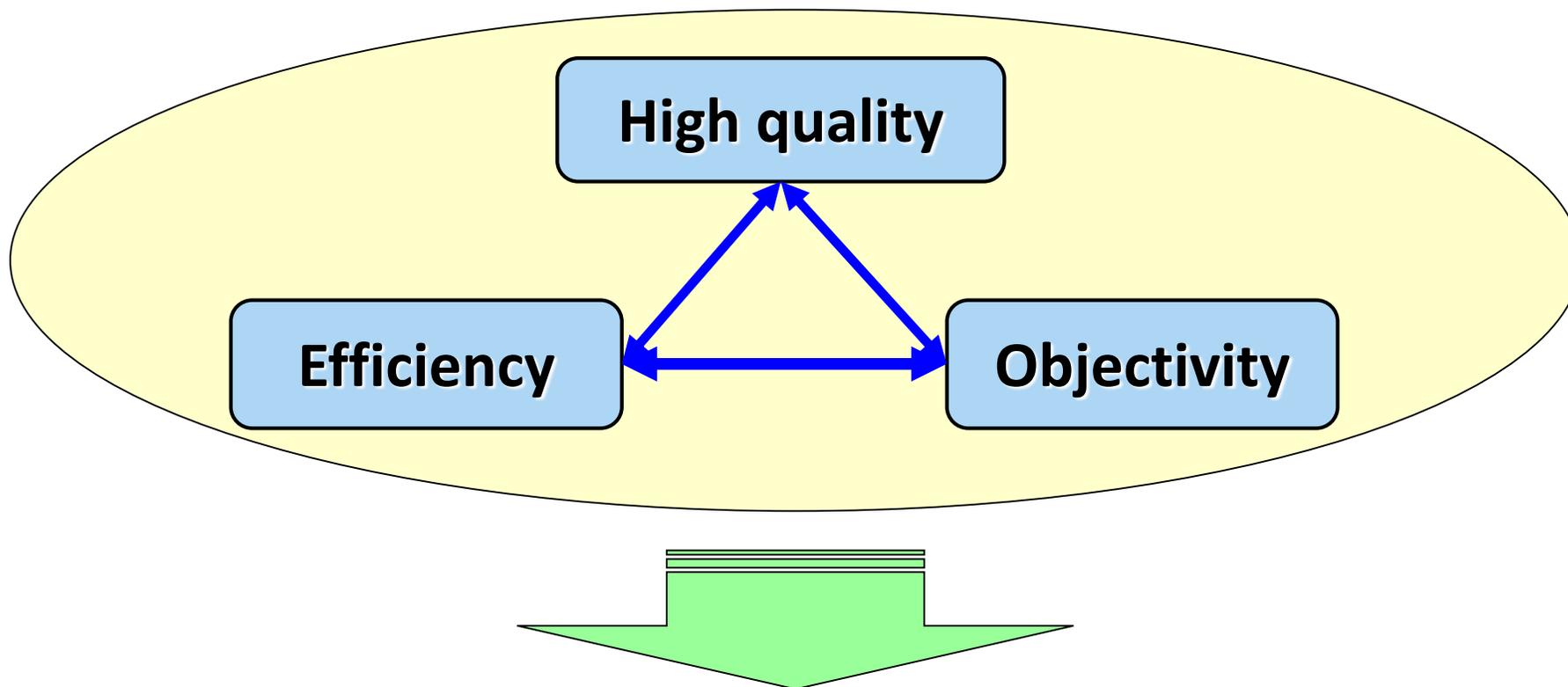
- 1) Novelty
- 2) Inventive step
- 3) Conflicting applications



Examiners normally need to conduct a **prior-art-search** to identify that the examined patent applications are in conformity with those requirements.

A. Backgrounds - 3/3

Three elements for an ideal search



Establishment of search strategies is necessary

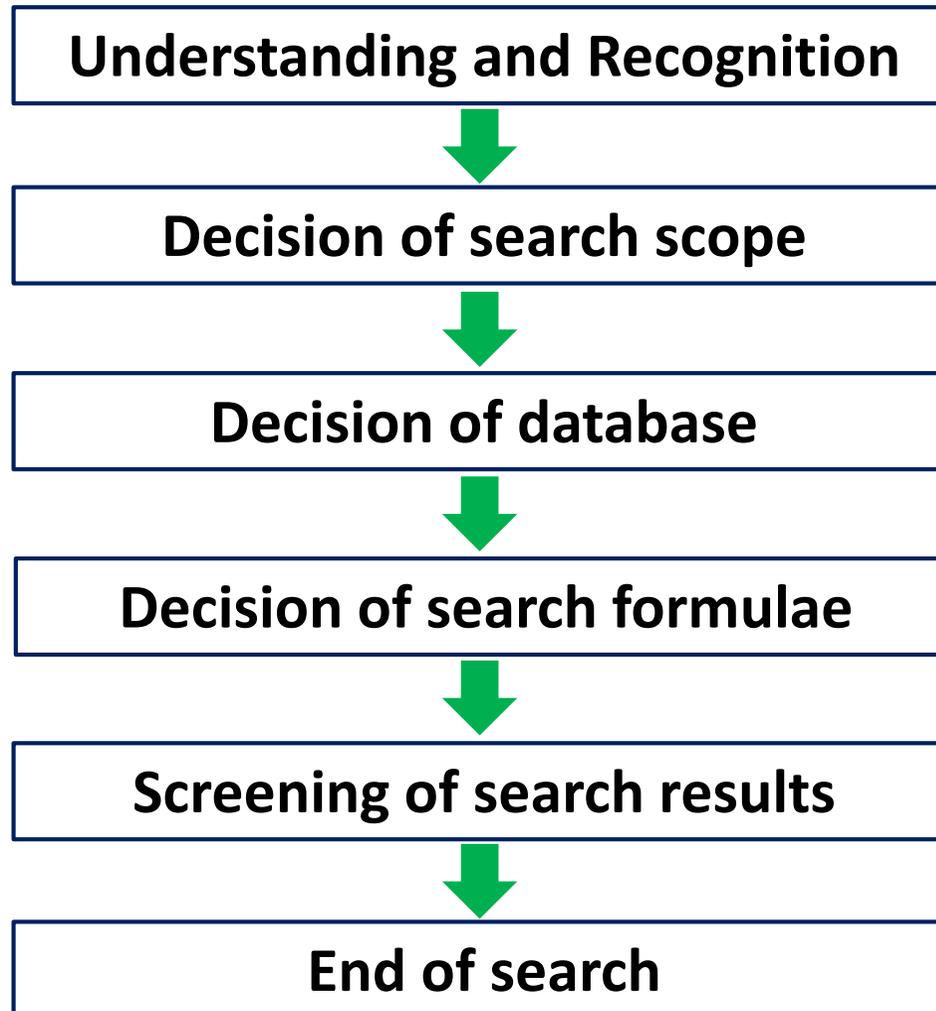
I. Basics of Prior Art Search

II. Search Strategy

III. Search Tool - J-PlatPat

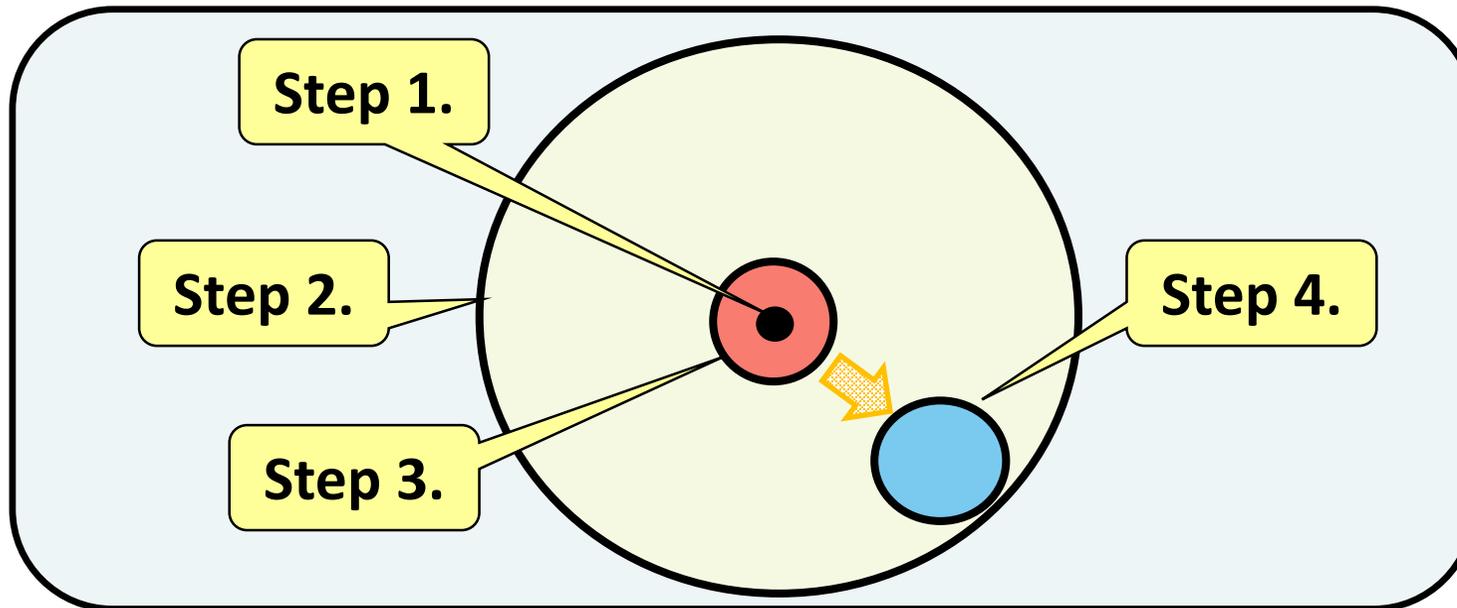
IV. Search Tool - PATENTSCOPE

A. Search Flow



B. Decision of search scope - 1/7

Accessible Documents



Step 1. Recognize an invention

Step 2. Determine outer border of search scope

Step 3. Determine search scope

Step 4. Change search scope

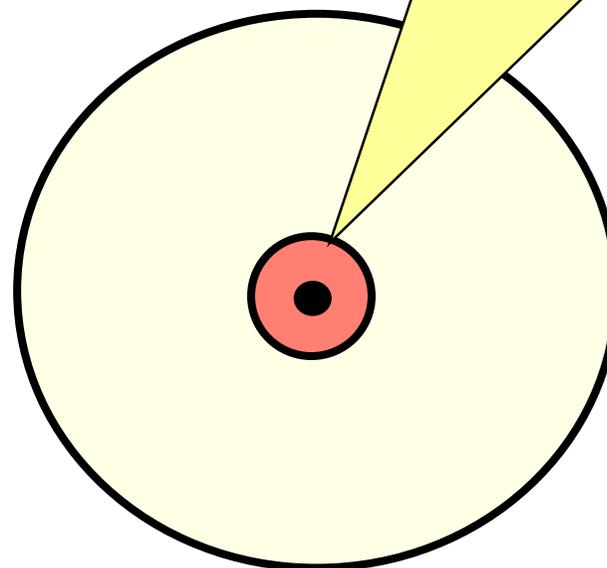
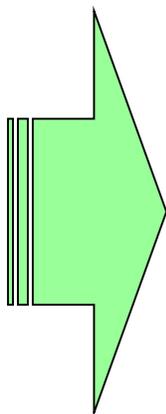
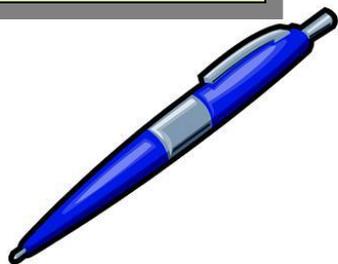
B. Decision of search scope - 2/7

~ Step 3. Determination of search scope ~

Search scope having all the elements of the claimed invention

~ *Example* ~

Claim
A pen having
a clip and a cap



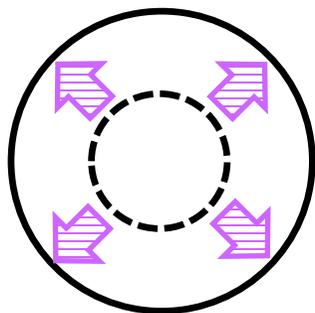
pen AND clip AND cap

B. Decision of search scope - 3/7

~ Step 4. Change of search scope ~

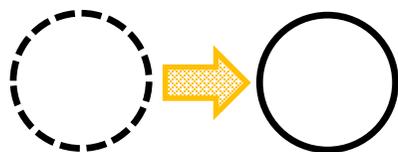
Expansion or Shift of search scope

Expansion



- ✓ Generalization of element(s)
- ✓ Deletion of element(s)

Shift

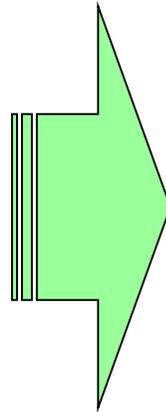


- ✓ Neighboring technical field(s)

B. Decision of search scope - 4/7

~ Step 4. 1. Expansion of search scope ~

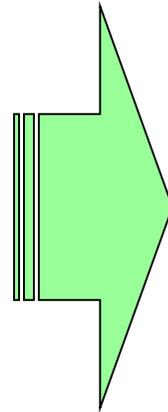
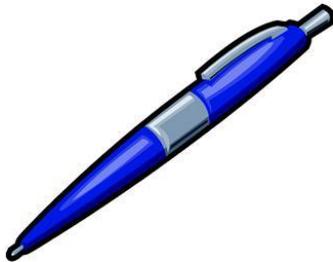
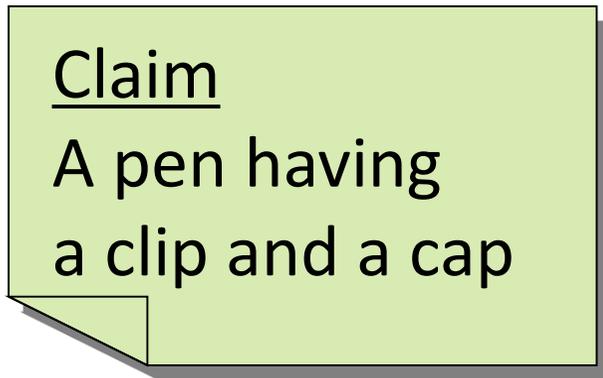
Claim
A pen having
a clip and a cap



- ✓ Generalization of element(s)
 - **A writing instrument** having a clip and a cap
- ✓ Deletion of element(s)
 - A pen **having a cap**
 - A pen **having a clip**

B. Decision of search scope - 5/7

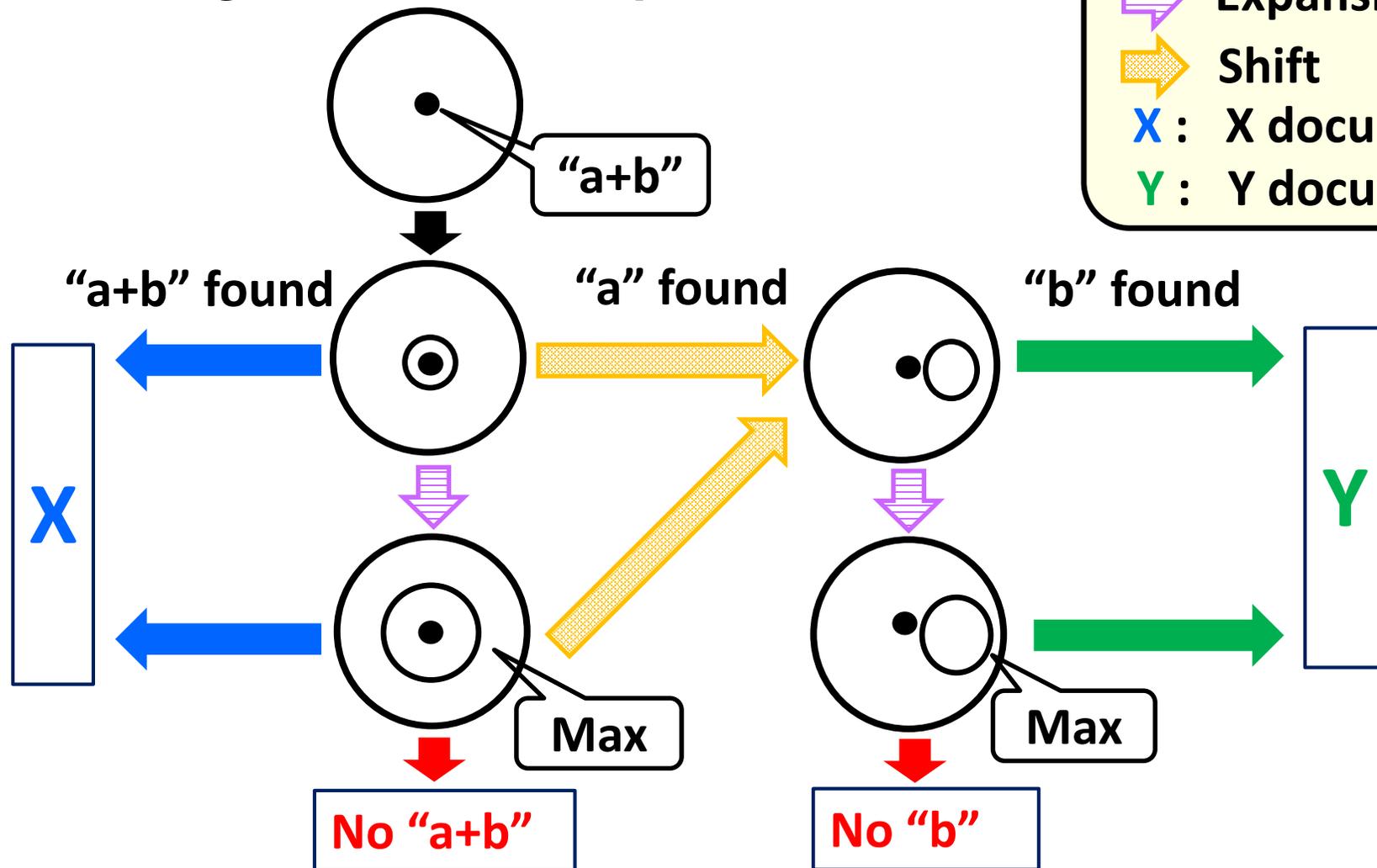
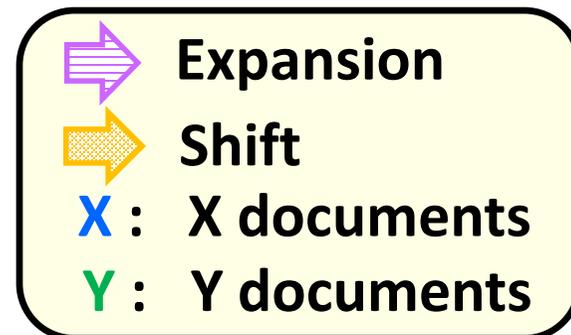
~ Step 4. 2. Shift of search scope ~



- ✓ Neighboring technical field
 - **An electronic stylus**
having a clip and a cap

B. Decision of search scope - 6/7

~ Change of search scope ~



B. Decision of search scope - 7/7

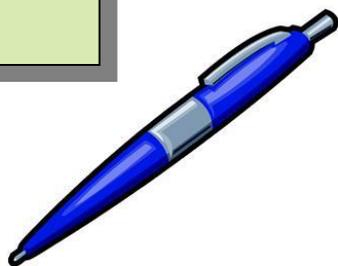
~ *Tips for more efficient search* ~

Claim

A pen having
a clip and a cap

Embodiment

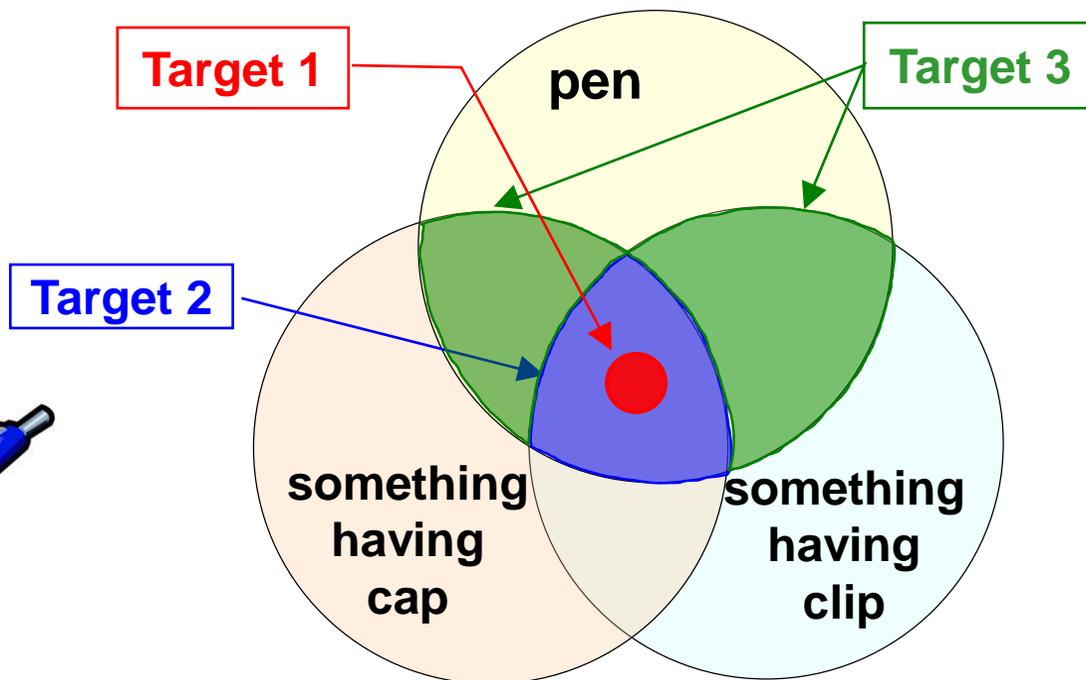
A *ball-point* pen
having a clip and
a cap



Target 1: A *ball-point* pen having a clip and a cap

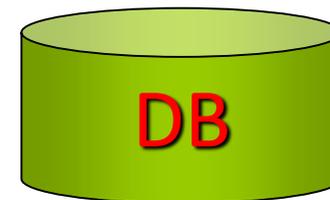
Target 2: A pen having a clip and a cap

Target 3: A pen having a clip (prior art 1) and
another pen having a cap (prior art 2)



C. Decision of database

~ *How to select database ?* ~



- Basic inventions and academic inventions of element(s)
 - Patent Gazette
 - Papers by using Commercial DB and Internet
- The fields where specific search tools have been established
 - CAS for compounds
 - ICIREPAT for metal alloys
- Improvement invention
 - Patent Gazette

D. Decision of search formulae - 1/3

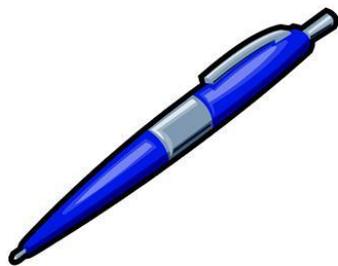
- Search formulae are created based on search scope and database
- **Search scope** determines the contents of search formulae.
 - When search scope is “**pen AND clip AND cap**”, search formulae can be “**(pen*clip*cap)/tx**”.
- **Database** determines the description methods of search formulae.
 - When classification(IPC) is assigned to documents in the database, search formulae whose search scope is “**pen AND clip AND cap**” can be “**B43K9/00 * clip/tx**” (B43K9/00 : Cap for pen)

D. Decision of search formulae - 2/3

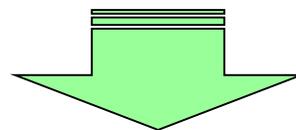
~ *Tips for keyword search* ~

Claim

A pen having
a clip and a cap



Search formulae : ***(pen*clip*cap)/tx***



■ Synonym

➤ ***(pen*[clip+pin]*cap)/tx***

(“pin” is a synonym of “clip”)

■ Proximity

➤ ***{pen,clip,cap},10n/tx***

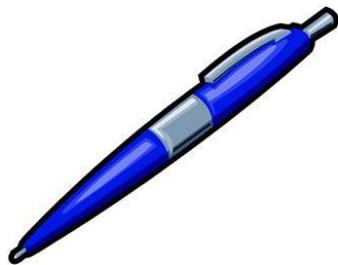
(“pen” and “clip” and “cap” are within 10 words)

D. Decision of search formulae - 3/3

~ Tips for classification search ~

Claim

A pen having
a clip and a cap



- When classification is not available...

- ***(pen*clip*cap)/tx***

- When IPC is available...

- ***B43K9/00*clip/tx***

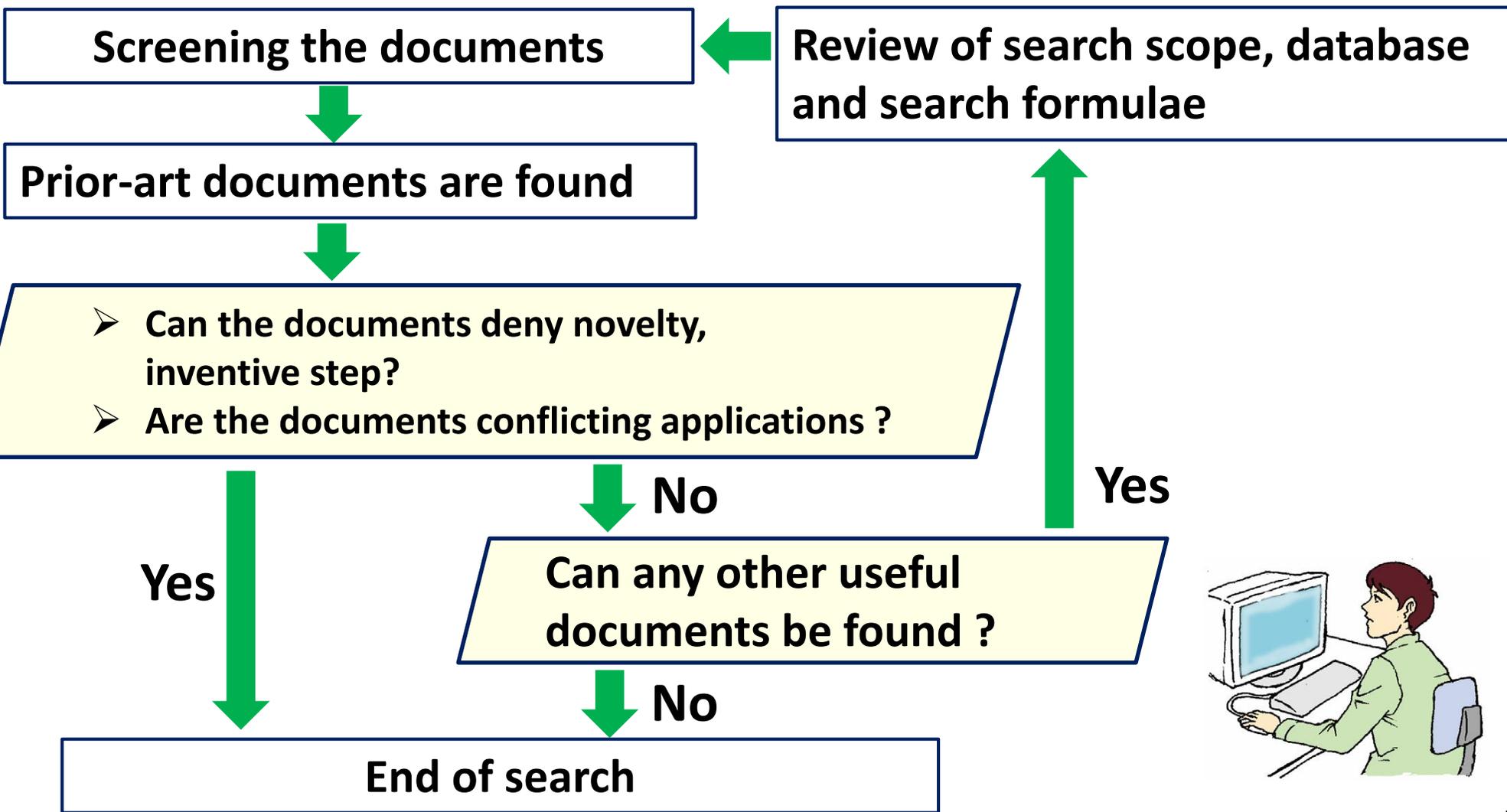
(IPC B43K9/00 : Cap for pen)

- When FI is available...

- ***B43K9/00@F***

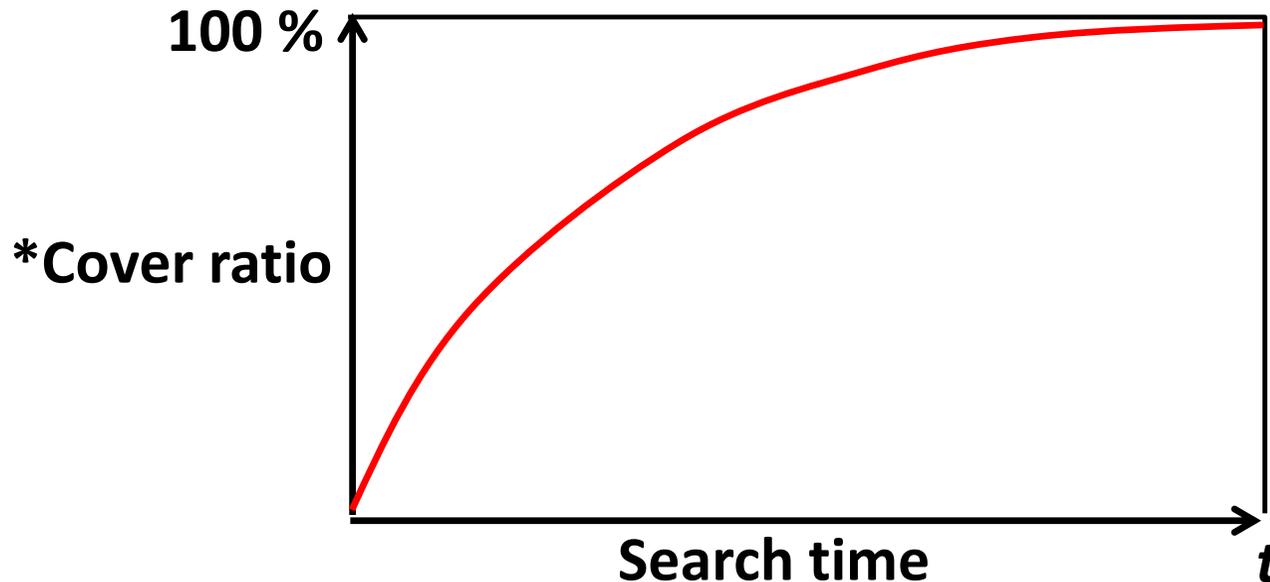
(FI B43K9/00@F : Cap and clip for pen)

E. Screening of search results - 1/3



E. Screening of search results - 2/3

~ When do you finish prior art search ? ~



Cover ratio approaches 100 % as search time increases.

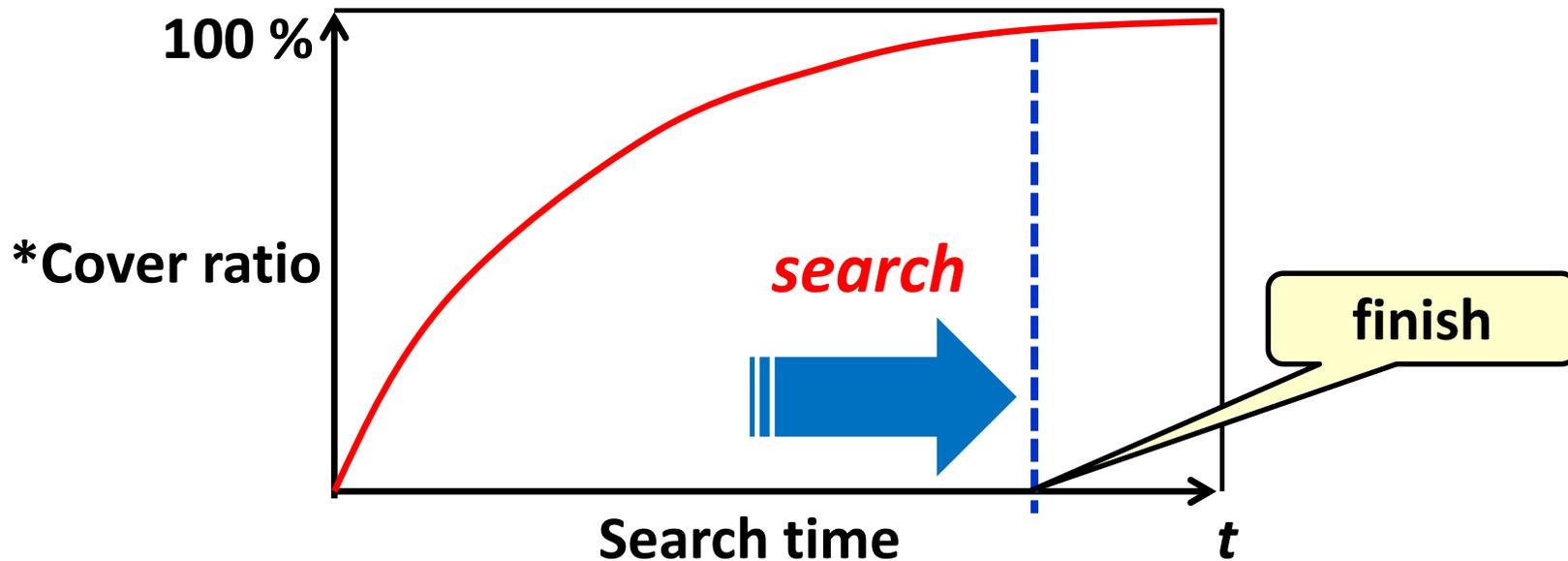
However, search time is limited for examiners...



***The percentage of documents you have searched within the outer border of the search scope**

E. Screening of search results - 3/3

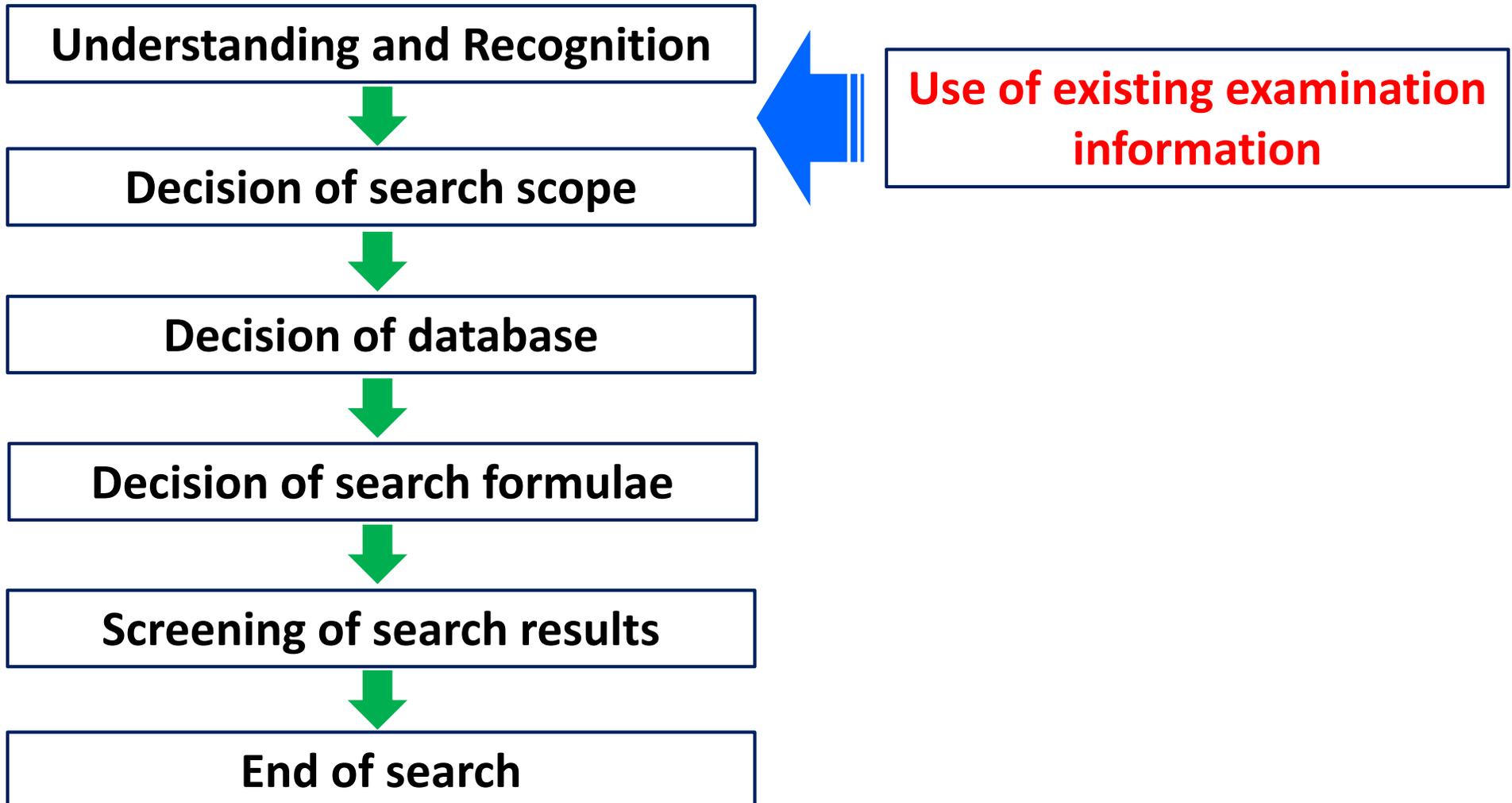
~ *When do you finish prior art search ?* ~



- Finish prior art search when an examiner judges that no more useful documents can be found.
 - ✓ The judgment is made based on the examiners' knowledge and experience.
 - ✓ Young examiners are recommended to consult with experienced examiners.

*The percentage of documents you have searched within the outer border of the search scope

F. Use of existing examination information - 1/3



F. Use of existing examination information - 2/3

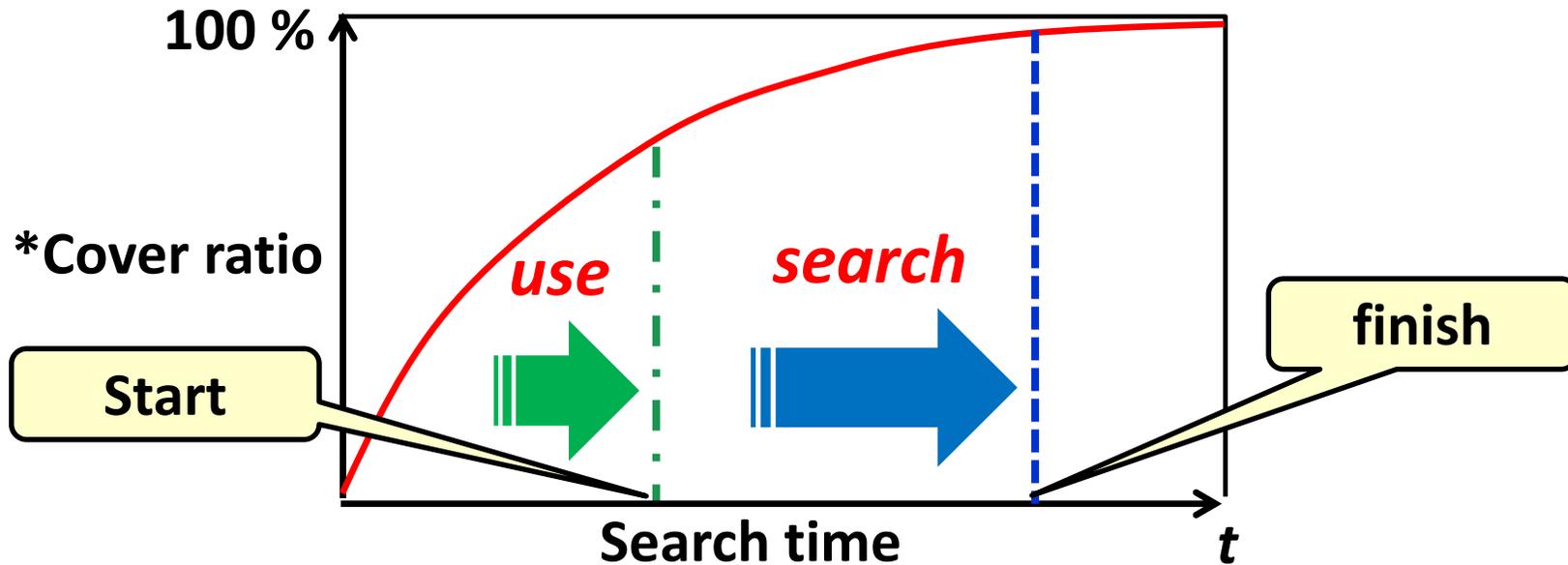
- Examination results of other patent offices
 - ISR
 - Examination results of JPO, EPO, ...

- Examination results of related applications
 - Divisional applications

- Miscellaneous
 - Same inventors or applicants



F. Use of existing examination information - 3/3



- Use of existing examination information can reduce search time

- I. Basics of Prior Art Search
- II. Search Strategy
- III. Search Tool - J-PlatPat**
- IV. Search Tool - PATENTSCOPE

A. Basics of J-PlatPat - 1/6



IPDL Industrial Property Digital Library

National Center for Industrial Property Information and Training
INPIT

▶ INPIT Home Page ▶ JPO Home Page ▶ To Japanese Page

The Industrial Property Digital Library (IPDL) offers the public access to IP Gazettes of the JPO free of charge through the Internet.

Access Total : 7,463,700

⇒ Patent & Utility Model
[Patent & Utility Model Gazette DB](#)
[Patent & Utility Model Concordance](#)
[FI/F-term Search](#)
[PAJ](#)
[Patent Map Guidance](#)

⇒ Trademark
[Japanese Trademark Database](#)
[Japanese Figure Trademarks](#)
[Japanese Well-Known Trademark](#)
[List of Goods and Services](#)

⇒ Design
[Design Gazette DB](#)
[Design Classification Search](#)
[Japanese Design Classification List](#)

⇒ Database Contents
[Patent & Utility Model Gazette DB](#)
[Patent & Utility Model Concordance](#)
[FI/F-term Search](#)
[PAJ](#)
[Design Gazette DB](#)
[Design Classification Search](#)
[Japanese Trademark Database](#)
[Japanese Figure Trademarks](#)

News
[News](#)

Link
[IPDL Links](#)

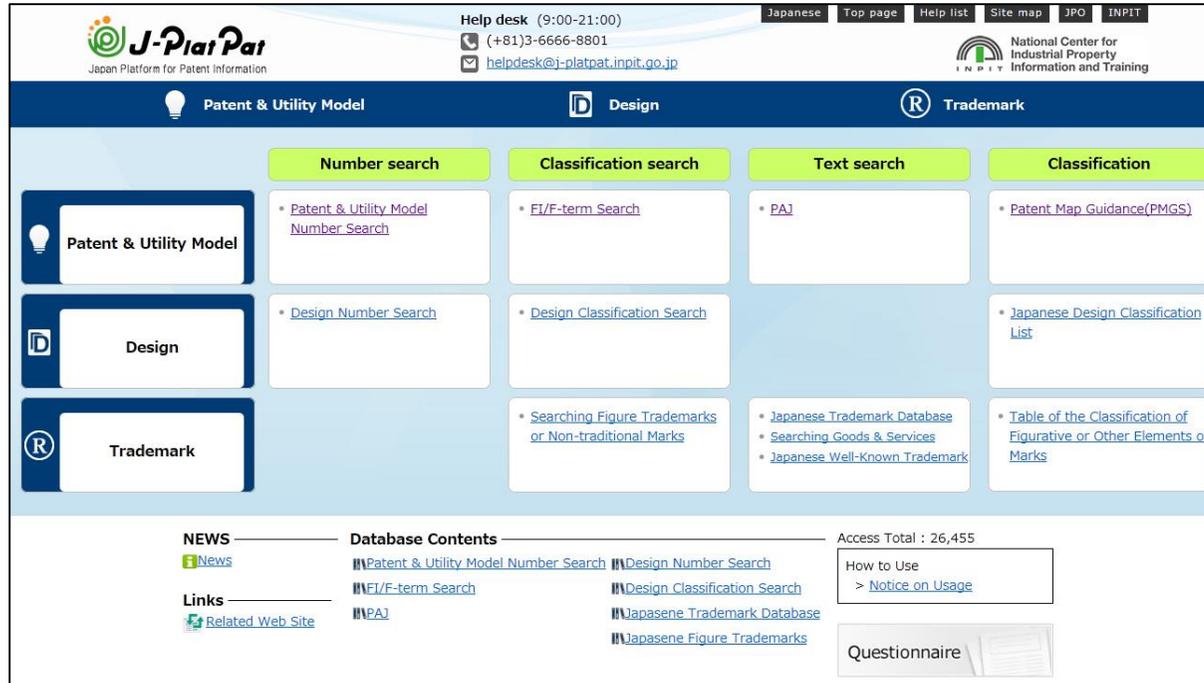
Questionnaire
[Questionnaire](#)

Notice

Please enable Cookie and JavaScript of the browser when you use the Industrial Property Digital Library.
helpdesk@ipdl.inpit.go.jp
Copyright (C); 1999-2014 JPO and INPIT

- JPO provided **IPDL** as a free search tool
- ✓ More than **100 million** accesses per year
 - ✓ 16 years history as of **March 2015**

A. Basics of J-PlatPat - 2/6



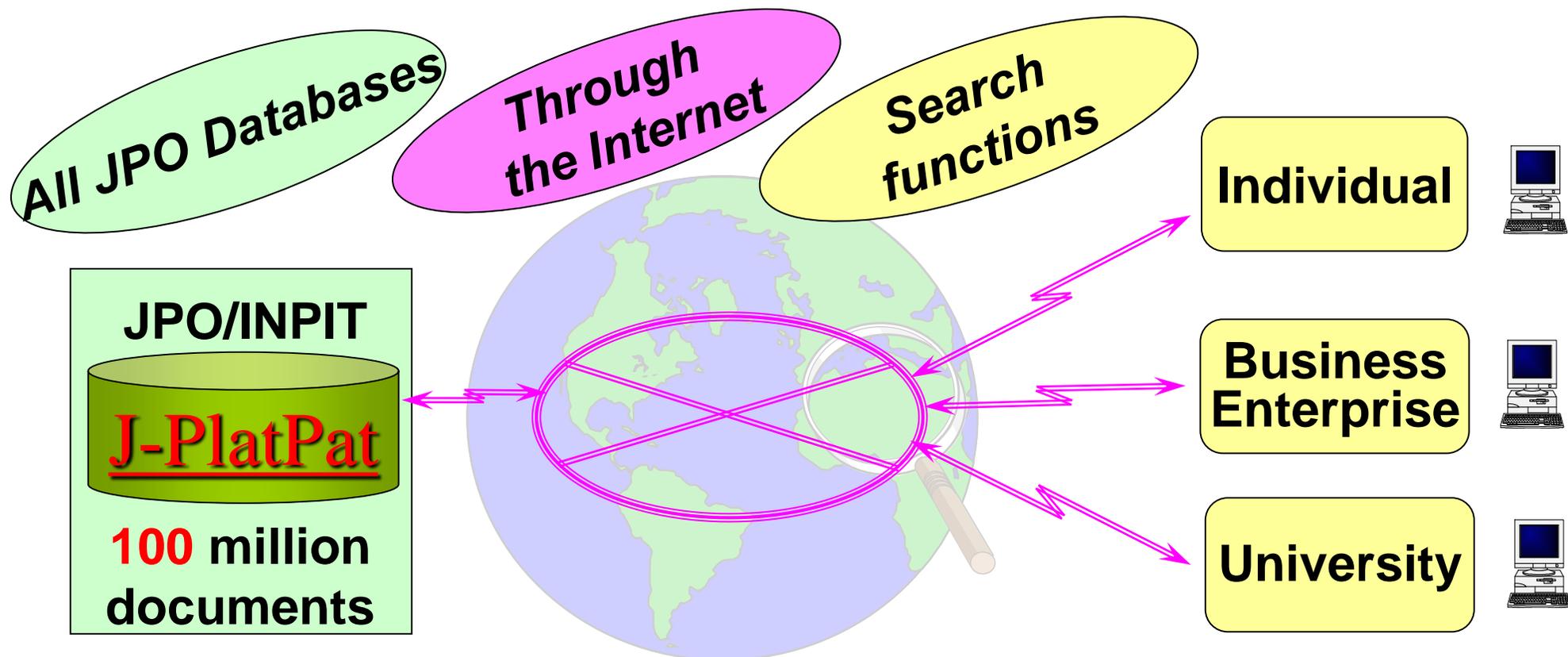
The screenshot displays the J-PlatPat website interface. At the top, there is a header with the J-PlatPat logo, contact information for the help desk (9:00-21:00, (+81)3-6666-8801, helpdesk@j-platpat.inpit.go.jp), and navigation links for Japanese, Top page, Help list, Site map, JPO, and INPIT. Below the header, there are three main categories: Patent & Utility Model, Design, and Trademark. Each category has a corresponding icon and a list of search options. The Patent & Utility Model category includes Patent & Utility Model Number Search. The Design category includes Design Number Search and Design Classification Search. The Trademark category includes Searching Figure Trademarks or Non-traditional Marks, Japanese Trademark Database, Searching Goods & Services, Japanese Well-Known Trademark, Patent Map Guidance (PMGS), and Japanese Design Classification List. At the bottom, there are sections for NEWS, Links, Database Contents, and Access Total (26,455). There are also links for How to Use, Notice on Usage, and a Questionnaire.

J-PlatPat took over the role of IPDL from 2015 March

- ✓ Simple and user-friendly interface
- ✓ Easier search of FI/F-term classification

A. Basics of J-PlatPat - 3/6

J-PlatPat : Japan Platform for Patent Information



A. Basics of J-PlatPat - 4/6

JPO home page <http://www.jpo.go.jp/index.htm>



The screenshot shows the JPO home page with a navigation menu at the top. The main banner area features a large '2015' graphic and the text 'JPO Status Report 2015 Released'. On the right side, there is a 'Commissioner's Message' section with a 'Purpose:' sub-section containing a 'J-PlatPat' link. Below this are sections for 'Filings', 'Examinations', 'Utilization of IP rights', and 'Laws and Regulations'. A red dashed box highlights the 'J-PlatPat' link in the 'Purpose:' section.

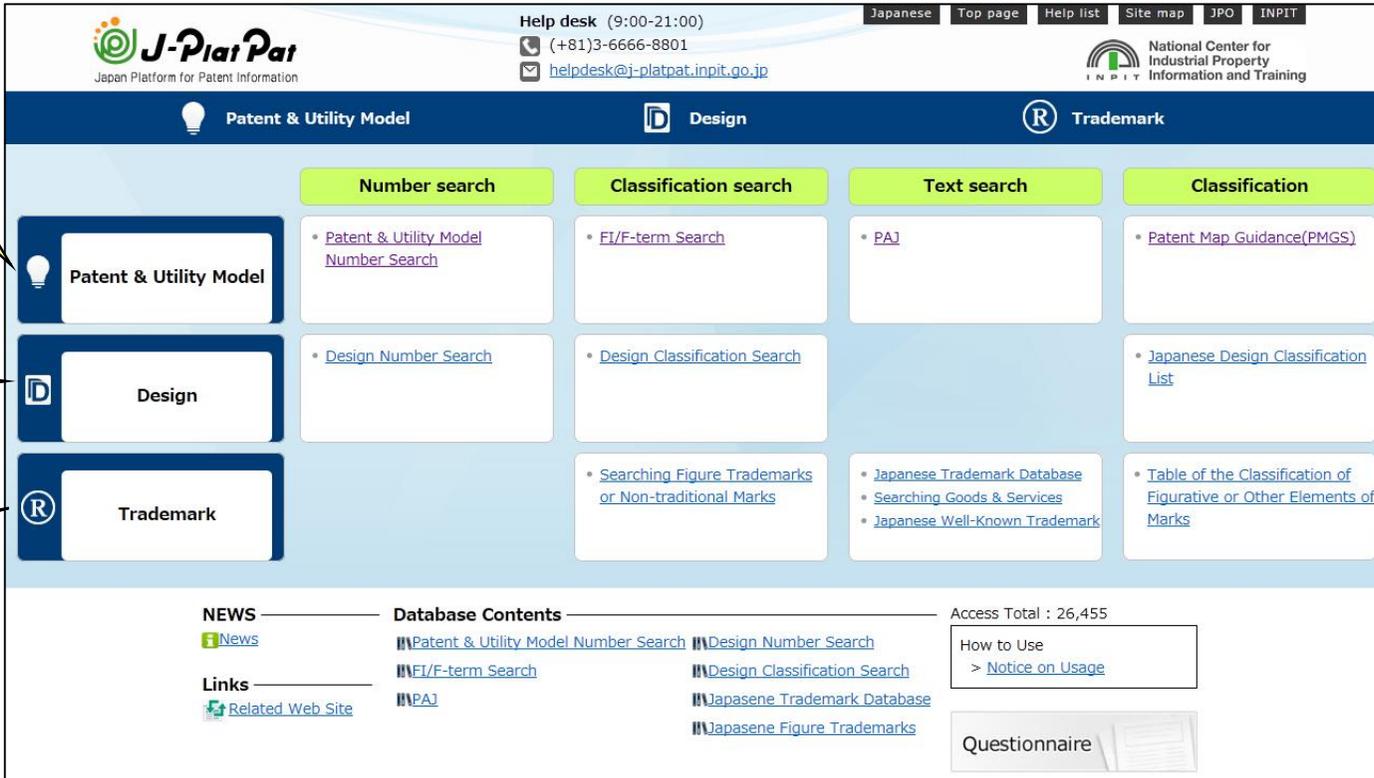


A close-up of the 'J-PlatPat' banner, which includes the text 'J-PlatPat' and a link 'Search(Patent, Design, Trademark, etc.)'.

Click the J-PlatPat banner

A. Basics of J-PlatPat - 5/6

Top page of J-PlatPat



The screenshot shows the J-PlatPat homepage. At the top left is the J-PlatPat logo with the tagline 'Japan Platform for Patent Information'. To the right, there is a 'Help desk' section with contact information: '(9:00-21:00)', '(+81)3-6666-8801', and 'helpdesk@j-platpat.inpit.go.jp'. Further right are navigation links for 'Japanese', 'Top page', 'Help list', 'Site map', 'JPO', and 'INPIT'. On the far right is the logo for the 'National Center for Industrial Property Information and Training'.

The main navigation bar features three categories: 'Patent & Utility Model' (with a lightbulb icon), 'Design' (with a 'D' icon), and 'Trademark' (with a registered trademark symbol icon). Below this, there are four search columns: 'Number search', 'Classification search', 'Text search', and 'Classification'. Each column contains links to specific search functions. For example, the 'Number search' column includes links for 'Patent & Utility Model Number Search' and 'Design Number Search'. The 'Classification search' column includes links for 'FI/F-term Search' and 'Design Classification Search'. The 'Text search' column includes a link for 'PAJ'. The 'Classification' column includes links for 'Patent Map Guidance(PMGS)', 'Japanese Design Classification List', and 'Table of the Classification of Figurative or Other Elements of Marks'.

At the bottom of the page, there are sections for 'NEWS' (with a 'News' link), 'Links' (with a 'Related Web Site' link), 'Database Contents' (with links for 'Patent & Utility Model Number Search', 'Design Number Search', 'FI/F-term Search', 'Design Classification Search', 'Japansene Trademark Database', and 'Japansene Figure Trademarks'), and 'Access Total : 26,455'. There is also a 'How to Use' section with a 'Notice on Usage' link and a 'Questionnaire' form.

Three yellow callout boxes on the left side of the screenshot point to the 'Patent & Utility Model', 'Design', and 'Trademark' navigation items, respectively.

Search for Patent & Utility Model, Design, and Trademark

A. Basics of J-PlatPat - 6/6

Patent & Utility Model Search



4 types of services are available

- PAJ Search
- Number Search
- Patent Map Guidance (PMGS)
- FI/F-term Search

B. PAJ search - 1/11

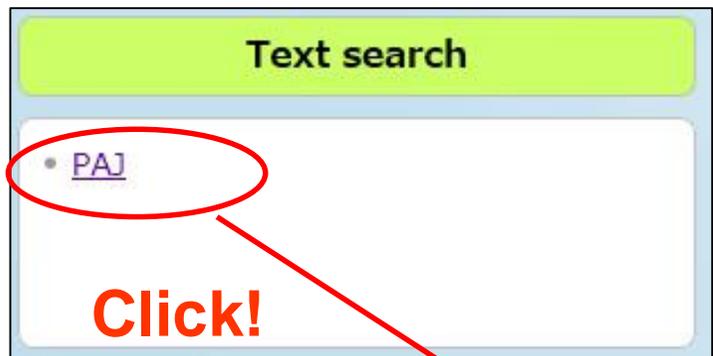
- PAJ (Patent Abstracts of Japan) is a set of English abstracts of unexamined patent applications published in Japan

- PAJ is searchable by:
 - Free keywords
 - Publication date
 - IPC

- Available data: from 1976

- Legal status and machine translation of an application are available for the PAJ published from 1990, and 1993, respectively.

B. PAJ search - 2/11



Searching PAJ [? Help](#) [Search](#) [List](#) [Detail](#)

You can retrieve the PAJ (Patent Abstracts of Japan) by keywords.

Publication issues, and updates schedule, please refer to the [NEWS](#)

Abstract

Title of invention

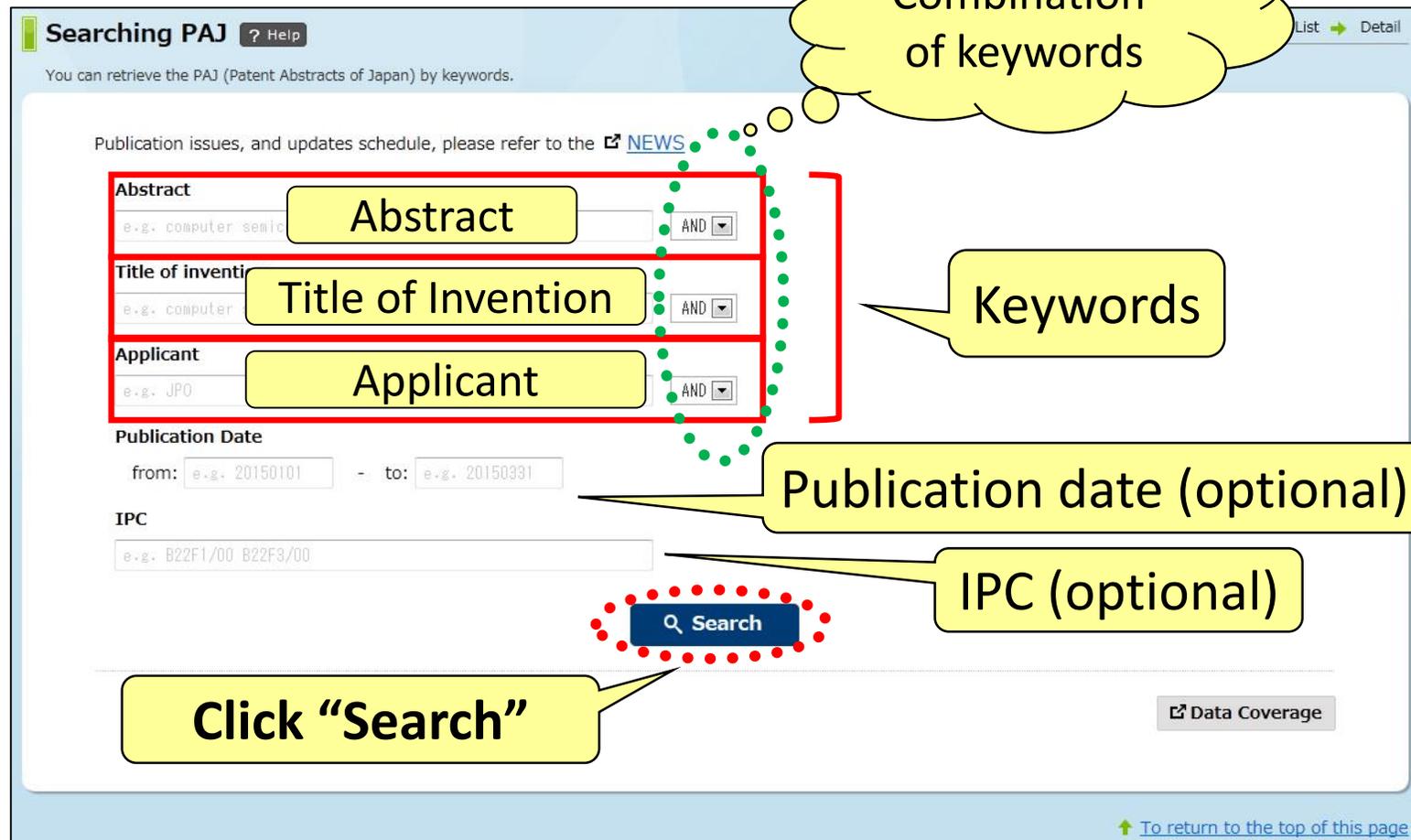
Applicant

Publication Date
from: - to:

IPC

[↑ To return to the top of this page](#)

B. PAJ search - 3/11



The screenshot shows the 'Searching PAJ' interface. The search criteria are as follows:

- Abstract:** e.g. computer semic. [AND]
- Title of invention:** e.g. computer [AND]
- Applicant:** e.g. JPO [AND]
- Publication Date:** from: e.g. 20150101 - to: e.g. 20150331
- IPC:** e.g. B22F1/00 B22F3/00

Annotations on the screenshot include:

- A yellow thought bubble: "Combination of keywords" pointing to the AND dropdown menus.
- A yellow callout box: "Keywords" pointing to the search input fields.
- A yellow callout box: "Publication date (optional)" pointing to the date range fields.
- A yellow callout box: "IPC (optional)" pointing to the IPC code field.
- A yellow callout box: "Click 'Search'" pointing to the Search button.

Other interface elements include a "Data Coverage" button and a "To return to the top of this page" link at the bottom right.

B. PAJ search - 4/11

Searching PAJ [? Help](#) [Search](#) → [List](#) → [Detail](#)

You can retrieve the PAJ (Patent Abstracts of Japan) by keywords.

Publication issues, and updates schedule, please refer to the [NEWS](#)

Abstract

Title of invention

Applicant

Publication Date
from: - to:

IPC

[↑ To return to the top of this page](#)

“toy”, “people”
for Abstract search

2002/04/01 – 2003/01/01

Click “Search”

B. PAJ search - 5/11

Searching PAJ [? Help](#) Search → List → Detail

You can retrieve the PAJ (Patent Abstracts of Japan) by keywords.

Publication issues, and updates schedule, please refer to the [NEWS](#)

Abstract
 AND

Title of invention
 AND

Applicant
 AND

Publication Date
from: - to:

IPC

Search results: 2

[↑ To return to the top of this page](#)

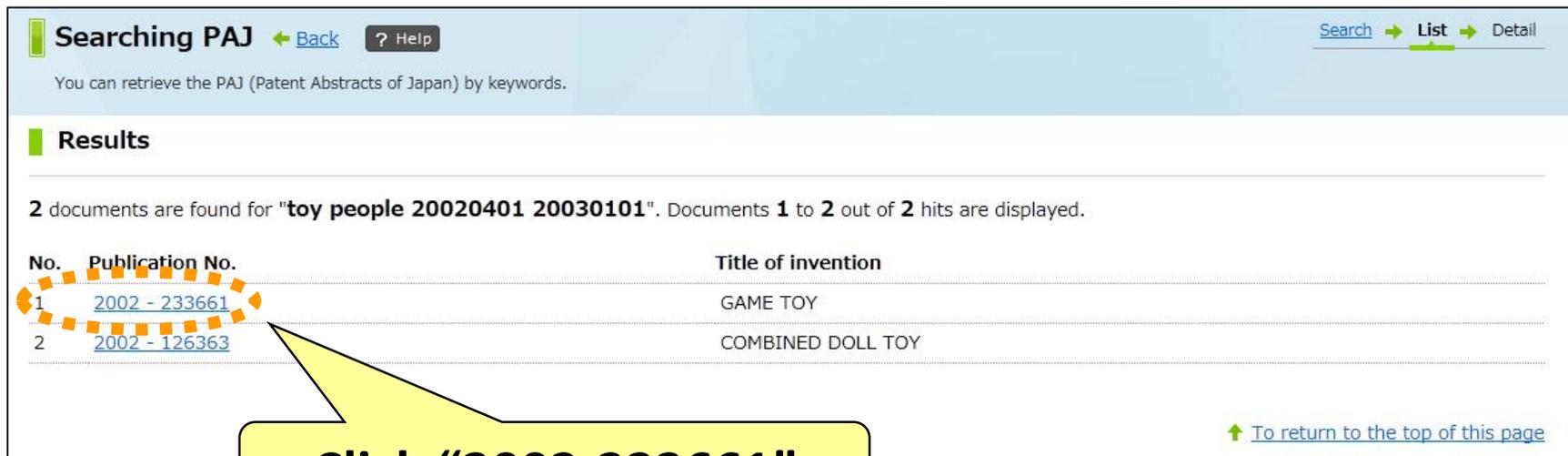
2 documents were hit

Click "View List"

B. PAJ search - 6/11

The search results list is displayed.

Click the publication number **“2002-233661.”**



Searching PAJ [← Back](#) [? Help](#) [Search](#) [→ List](#) [→ Detail](#)

You can retrieve the PAJ (Patent Abstracts of Japan) by keywords.

Results

2 documents are found for "toy people 20020401 20030101". Documents 1 to 2 out of 2 hits are displayed.

No.	Publication No.	Title of invention
1	2002 - 233661	GAME TOY
2	2002 - 126363	COMBINED DOLL TOY

[↑ To return to the top of this page](#)

Click “2002-233661”

B. PAJ search - 7/11

Patent Abstracts of Japan

Searching PAJ [← Back](#) [? Help](#)

You can retrieve the PAJ (Patent Abstracts of Japan) by keywords.

Detail [← Previous Document](#) 1 / 2 [Next Document →](#)

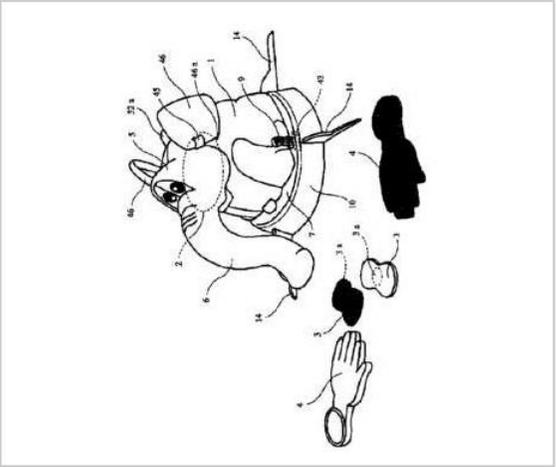
2002-233661 [Data Coverage](#) [Image Data\(Japanese\)](#) [Legal Status](#)

(11)Publication number : 2002-233661
(43)Date of publication of application : 20.08.2002
(51)Int.Cl. : A63F 9/30
A63F 9/34

(21)Application number : 2001-032952
(22)Date of filing : 08.02.2001
(71)Applicant : SENTE CREATIONS:KK
(72)Inventor : SUGANO HIDEYUKI
ISHII TOSHIYASU
KANEKAWA KAZUJI

(54)GAME TOY

(57)Abstract
PROBLEM TO BE SOLVED: To provide a game **toy** in which the game **toy** itself has the leadership and a player's countermeasure is reflected to the result of a game and which enables a young **people** to enjoy by simple operation and manufacturing cost to be reduced.
SOLUTION: This game **toy** recovers a **toy** piece 3 presented by a player and attracted by the tip end of an arm part 6 through an opening part formed on the upper part of the **toy** main body 1. A lid body 5 to open/close the opening part 2 is equipped on the **toy** main body 1. A closing mechanism to open/ close the lid body 5 is equipped inside the **toy** main body 1. A magnet 55 is placed on the tip end of the arm part 6 formed swollen forward descending on the lid body. A drive mechanism to make the magnet 55 attract/release an attracted body linking with opening/closing the lid body 5 is installed inside the lid body 5. An attracted body 5a to be attracted by the magnet 55 is equipped on the **toy** piece 3.

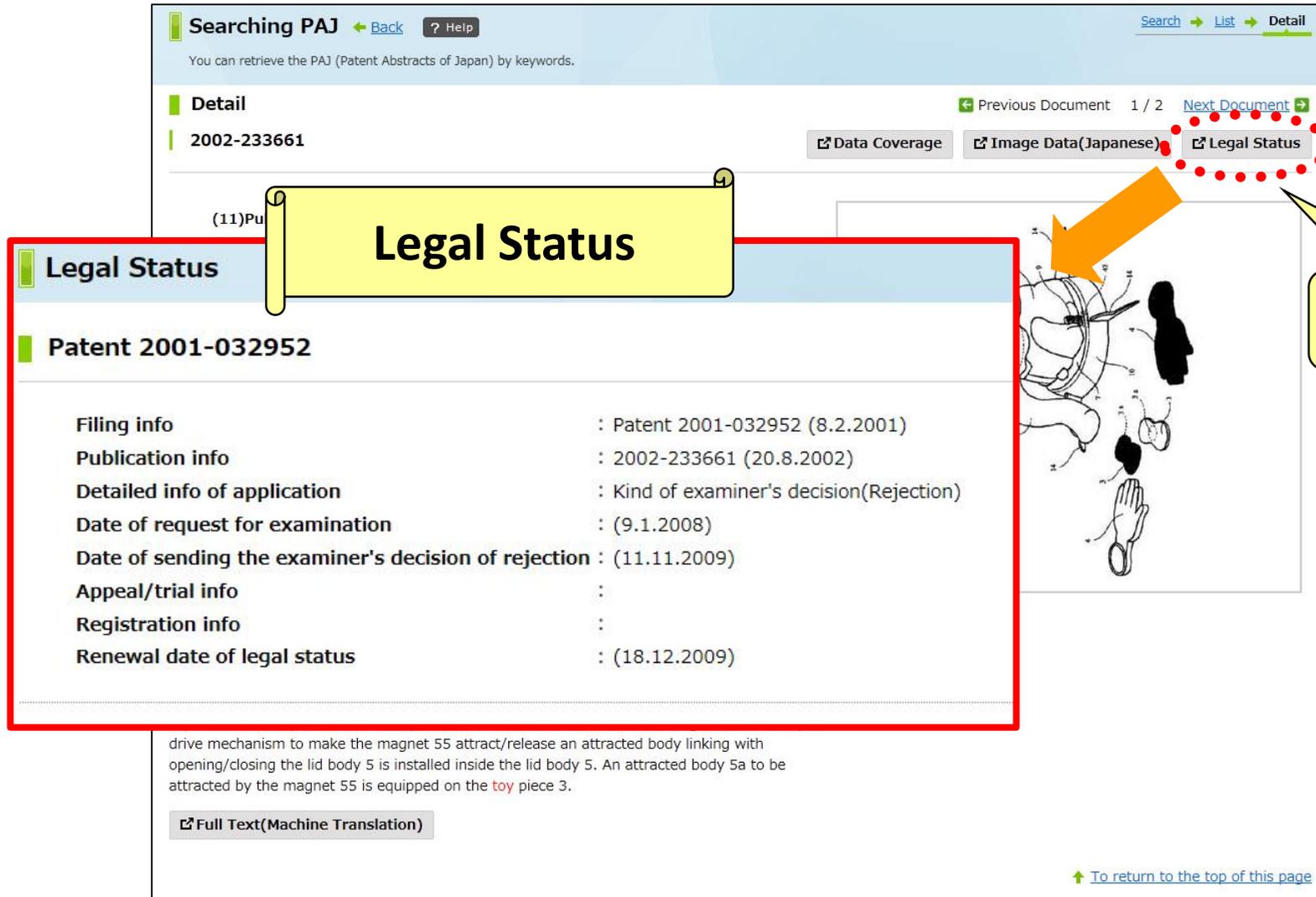


[Full Text\(Machine Translation\)](#)

[↑ To return to the top of this page](#)

“toy”, “people” are highlighted

B. PAJ search - 8/11



Searching PAJ [Back](#) [Help](#) [Search](#) [List](#) [Detail](#)

You can retrieve the PAJ (Patent Abstracts of Japan) by keywords.

Detail [Previous Document](#) 1 / 2 [Next Document](#)

[Data Coverage](#) [Image Data\(Japanese\)](#) [Legal Status](#)

(11)Pub

Legal Status

Patent 2001-032952

Filing info	: Patent 2001-032952 (8.2.2001)
Publication info	: 2002-233661 (20.8.2002)
Detailed info of application	: Kind of examiner's decision(Rejection)
Date of request for examination	: (9.1.2008)
Date of sending the examiner's decision of rejection	: (11.11.2009)
Appeal/trial info	:
Registration info	:
Renewal date of legal status	: (18.12.2009)

drive mechanism to make the magnet 55 attract/release an attracted body linking with opening/closing the lid body 5 is installed inside the lid body 5. An attracted body 5a to be attracted by the magnet 55 is equipped on the toy piece 3.

[Full Text\(Machine Translation\)](#)

[To return to the top of this page](#)

Legal Status

B. PAJ search - 10/11

Translation of Claims

Patent & Utility
 You can retrieve a variety of
 Selected Gazette
 JP,2002-233661,A

Search → List → Detail
 Previous Document 1/1 Next Document

Searching PAJ ← Back ? Help
 You can retrieve the PAJ (Patent Abstracts of Japan) by keywords.

Detail
 2002-233661

CLAIMS DETAILED DESCRIPTION
 TECHNICAL FIELD PRIOR ART EFFECT OF THE INVENTION TECHNICAL PROBLEM MEANS DESCRIPTION OF DRAWINGS DRAWINGS

NOTES

NPIT are not responsible for any
 caused by the use of this translation.
 document has been translated by computer. So the translation may not
 be original precisely.

Following requirements that attract a piece toy which a
 and collect them in a main part of a toy.
 ve-mentioned opening is provided by main part of the
 -mentioned main part of a toy / an opening] (**)
 magnet at a tip of the forming [in the providing-
 -takes inside of main part of toy open and close above-
 / arm part / an arm part bulges for a front to fall and]
 netizable body is provided by the providing-drive
 ide of above-mentioned lid in above-mentioned magnet
 it separate and abut at tip of arm part (**)
 above-
 toy according to claim 1 which the aforementioned
 which provided a regulation component which specifies a
 e base.
 claim 1 or 2 from which, as for the aforementioned main
 ges.

[Claim 4]The game toy according to claim 1, 2, or 3 which imitated a head of an elephant for
 the aforementioned lid, imitated regio nasalis of an elephant for the aforementioned arm part,
 and was formed while imitating idiosoma of an elephant and forming the aforementioned main
 part of a toy.

Representative drawing
 Representative drawing | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10
 | 11

Selection of machine translation

- Detailed description
- Technical field
- ...

(54)GAME TOY

(57)Abstract
 PROBLEM TO BE SOLVED: To provide a game toy in which the game toy it
 leadership and a player's countermeasure is reflected to the result of a ga
 a young people to enjoy by simple operation and manufacturing cost to be
 SOLUTION: This game toy recovers a toy piece 3 presented by a player an
 end of an arm part 6 through an opening part formed on the upper part of
 1. A lid body 5 to open/close the opening part 2 is equipped toy ma
 mechanism to open/ close the lid body 5 is equipped in main b
 is placed on the tip end of the arm part 6 formed sward descend
 drive mechanism to make the magnet 55 attracted body
 opening/closing the lid body 5 is installed in lid body 5. An attracte
 attracted by the magnet 55 is equipped on the toy piece 3.

Full Text(Machine Translation)

Full Text (Machine Translation)

B. PAJ search - 11/11

Original Japanese document

[Search](#) → [List](#) → [Detail](#)

← Previous Document 1 / 2 Next Document →

🔗 Data Coverage
🖼️ Image Data(Japanese)
📄 Legal Status

(19)日本特許庁 (J P) (12) 公開特許公報 (A) (11)特許出願公開番号
特開2002-233661
(P2002-233661A)
(43)公開日 平成14年8月20日(2002.8.20)

(51)Int.Cl. ⁷	識別番号	F I	テ-ロ-ド(参考)
A 6 3 F	9/30	A 6 3 F	9/30
	9/34		5 0 1 Z

審査請求 未請求 請求項の数 4 O L (全 10 頁)

(21)出願番号	特願2001-32952(P2001-32952)	(71)出願人	000132633 株式会社センターレイエーションズ 東京都文京区湯島3丁目31番1号
(22)出願日	平成13年2月8日(2001.2.8)	(72)発明者	菅野 秀行 東京都文京区湯島3丁目31番1号 株式会 社センターレイエーションズ内
		(72)発明者	石井 敬晴 東京都文京区湯島3丁目31番1号 株式会 社センターレイエーションズ内
		(72)発明者	金川 一次 東京都文京区湯島3丁目31番1号 株式会 社センターレイエーションズ内
		(74)代理人	100074918 弁理士 瀬川 幹夫

(54)【発明の名称】 ゲーム玩具

(57)【要約】
【課題】ゲームの主権はゲーム玩具自体が持ちプレイヤーの対応がゲームの結果に大きく反映させることができるとともに、簡単な操作で年少者が楽しむことができること、製造コストの低減化を図ることができるゲーム玩具を提供すること。
【解決手段】プレイヤーが差し出した駒玩具3をアーム部6の先端で吸い付けて玩具本体1の上部に形成された開口部2から回収するゲーム玩具であって、玩具本体1には上記開口部2を閉閉する蓋体5を設け、玩具本体1の内部には上記蓋体5を閉閉させる開閉機構を設け、蓋体5に前下がり影出して形成されたアーム部6の先端には磁石55を配置するとともに、上記蓋体5の内部には上記磁石55を蓋体5の開閉に連動してアーム部6の先端に当接、開閉させる駆動機構を設け、上記駒玩具3には上記磁石55に絶着する絶着体3aを設けた。

S:KK
I
II

The toy itself has the shape of a game and which enables the player to be reduced. The player is attracted by the tip part of the toy main body 1. A closing mechanism is provided in the toy main body 1. A magnet 55 is provided on the lid body. A driving mechanism is provided in the lid body linking with the magnet 55 to be attracted body 5a to be

[↑ To return to the top of this page](#)

Image Data (Japanese)

C. Number search - 1/6

- Almost all the Patent & Utility model gazettes issued by the JPO can be searched with any kind of the numbers of gazettes.

- Examples of kinds of numbers
 - Application Number
 - Publication Number
 - Patent Number
 - ...

C. Number search - 2/6

Number search

- [Patent & Utility Model Number Search](#)

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Patent & Utility Model Number Search [? Help](#)

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Publication issued, and updates schedule, please refer to the [NEWS](#).

Document Number

Kind	Document Number
<input type="text" value="Patent application number"/>	<input type="text" value="e.g. 2015-00012X 2015-12X H27-00012X"/>
<input type="text" value="A:Publication of patent application"/>	<input type="text" value="e.g. 2015-00012X 2015-12X H27-00012X"/>
<input type="text" value="Patent appeal/trial number"/>	<input type="text" value="e.g. 2015-00012X 2015-12X H27-00012X"/>
<input type="text"/>	<input type="text"/>

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C. Number search - 3/6

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Patent application number	e.g. 2015-00012X 2015-12X H27-00012X
A:Publication of patent application	e.g. 2015-00012X 2015-12X H27-00012X
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C. Number search - 4/6

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Publication issued, and updated

Document Number

Kind	Document Number
Patent application number	e.g. 2015-00012X 2015-12X H27-00012X
A:Publication of patent application	e.g. 2015-00012X 2015-12X H27-00012X
Patent appeal/trial number	e.g. 2015-00012X 2015-12X H27-00012X

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Select
“Patent application number”

“2002-273006”

Click **“Search”**

C. Number search - 5/6

The search results list is displayed.

Click the publication number **“2004-107736”**.

Patent & Utility Model Number Search [← Back](#) [? Help](#) [Search](#) [→ List](#) [→ Detail](#)

You can retrieve a variety of patent and utility model gazettes by their numbers.

Results

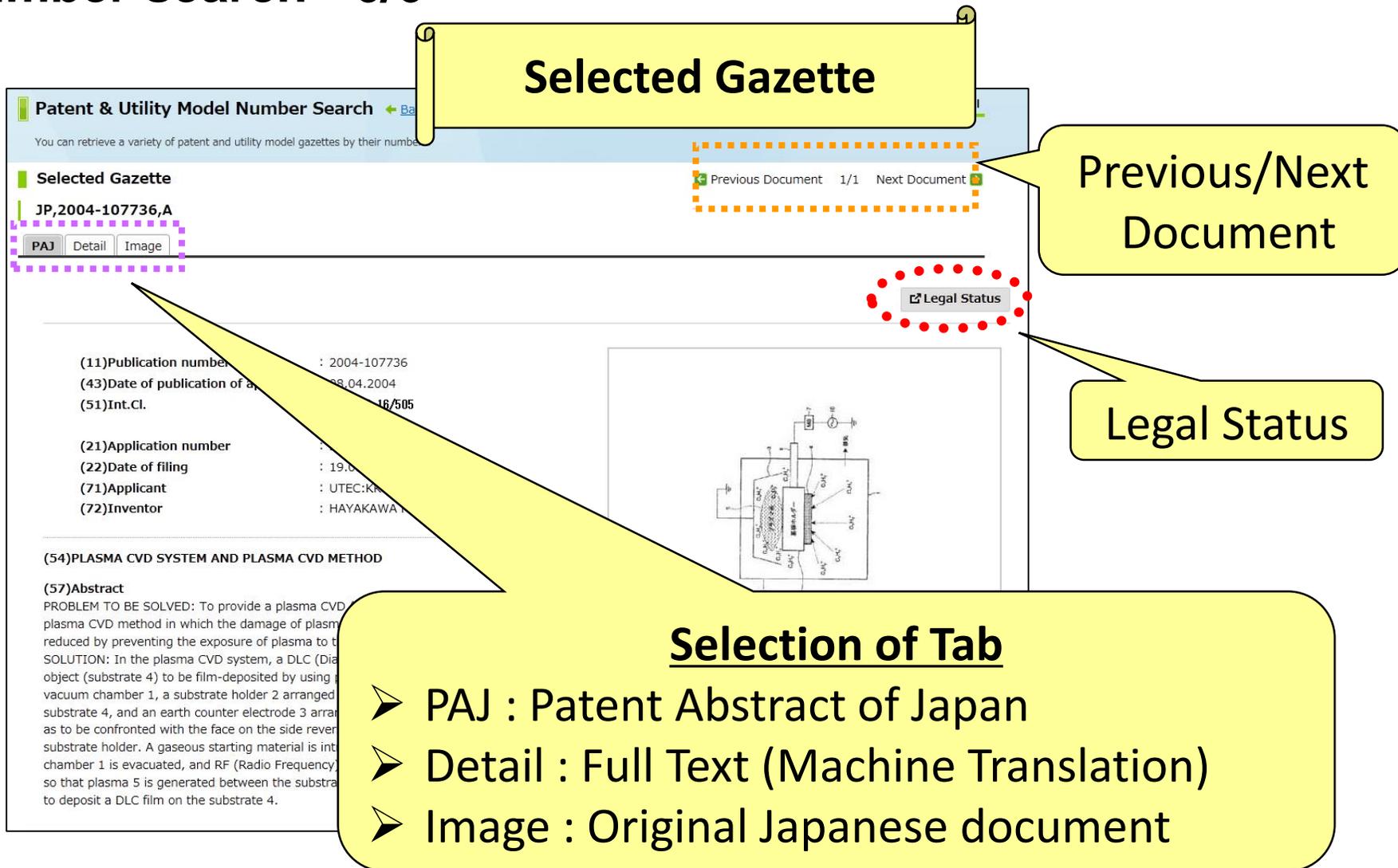
Display Type All Pages Front Page Claims Drawings Specification(unexamined)

Results 1 records.

Number	Application Number	Unexamined Publication Number	Examined Publication Number	Registration Number	Appeal/trial Number	other
1	JP,2002-273006	JP,2004-107736.A	-	JP,4180333.B	-	-

Click **“2004-107736”**

C. Number search - 6/6



Selected Gazette

Patent & Utility Model Number Search

Selected Gazette

JP,2004-107736,A

PAJ Detail Image

Previous Document 1/1 Next Document

Legal Status

Selection of Tab

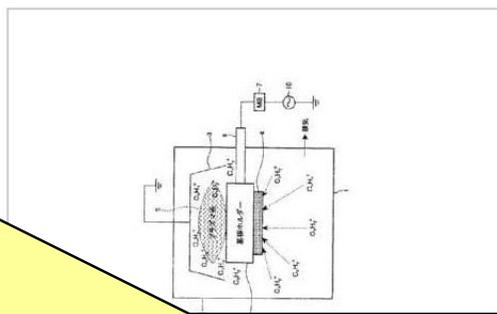
- PAJ : Patent Abstract of Japan
- Detail : Full Text (Machine Translation)
- Image : Original Japanese document

(11)Publication number : 2004-107736
(43)Date of publication of a : 2004.04.28
(51)Int.Cl. : B01D 11/05

(21)Application number :
(22)Date of filing : 19.0
(71)Applicant : UTEC:K
(72)Inventor : HAYAKAWA

(54)PLASMA CVD SYSTEM AND PLASMA CVD METHOD

(57)Abstract
PROBLEM TO BE SOLVED: To provide a plasma CVD plasma CVD method in which the damage of plasma reduced by preventing the exposure of plasma to the SOLUTION: In the plasma CVD system, a DLC (Diamond-Like Carbon) object (substrate 4) to be film-deposited by using a vacuum chamber 1, a substrate holder 2 arranged substrate 4, and an earth counter electrode 3 arranged as to be confronted with the face on the side reverse substrate holder. A gaseous starting material is introduced into chamber 1 is evacuated, and RF (Radio Frequency) so that plasma 5 is generated between the substrate to deposit a DLC film on the substrate 4.



D. PMGS - 1/11

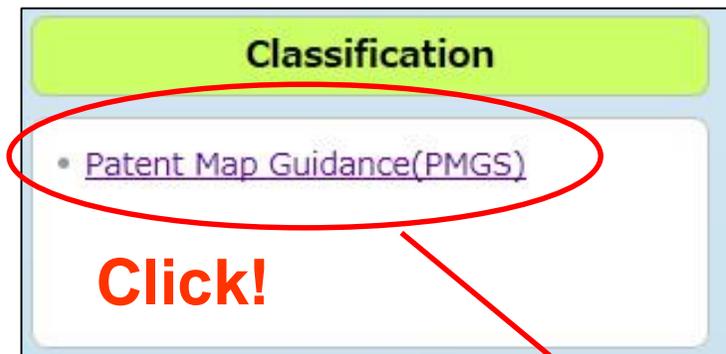
- **FI/F-term classification can be retrieved.**

- FI and F-term are unique patent classifications developed by the JPO, and they are mainly assigned to JP documents.

- **“FI”** is organized in a hierarchical structure, and it is the subdivisions of the IPC subgroups.

- **“F-term”** is organized according to particular technological fields to improve search efficiency from multiple viewpoints; purpose, usage, structure, operation, etc.

D. PMGS - 2/11



Patent Map Guidance(PMGS) [? Help](#) [Search](#) [List](#)

You can refer to FI/F-term and retrieve a classification by keywords.

Publication issued, and updates schedule, please refer to the [NEWS](#).

Inquiry Search by Keyword IPC-FI Concordance Search

After selecting the query entry screen, Please click each classification, or input a classification into an input box and click.

FI (Classification)

Query Screen FI FI Handbook

Classification

F-term (Classification)

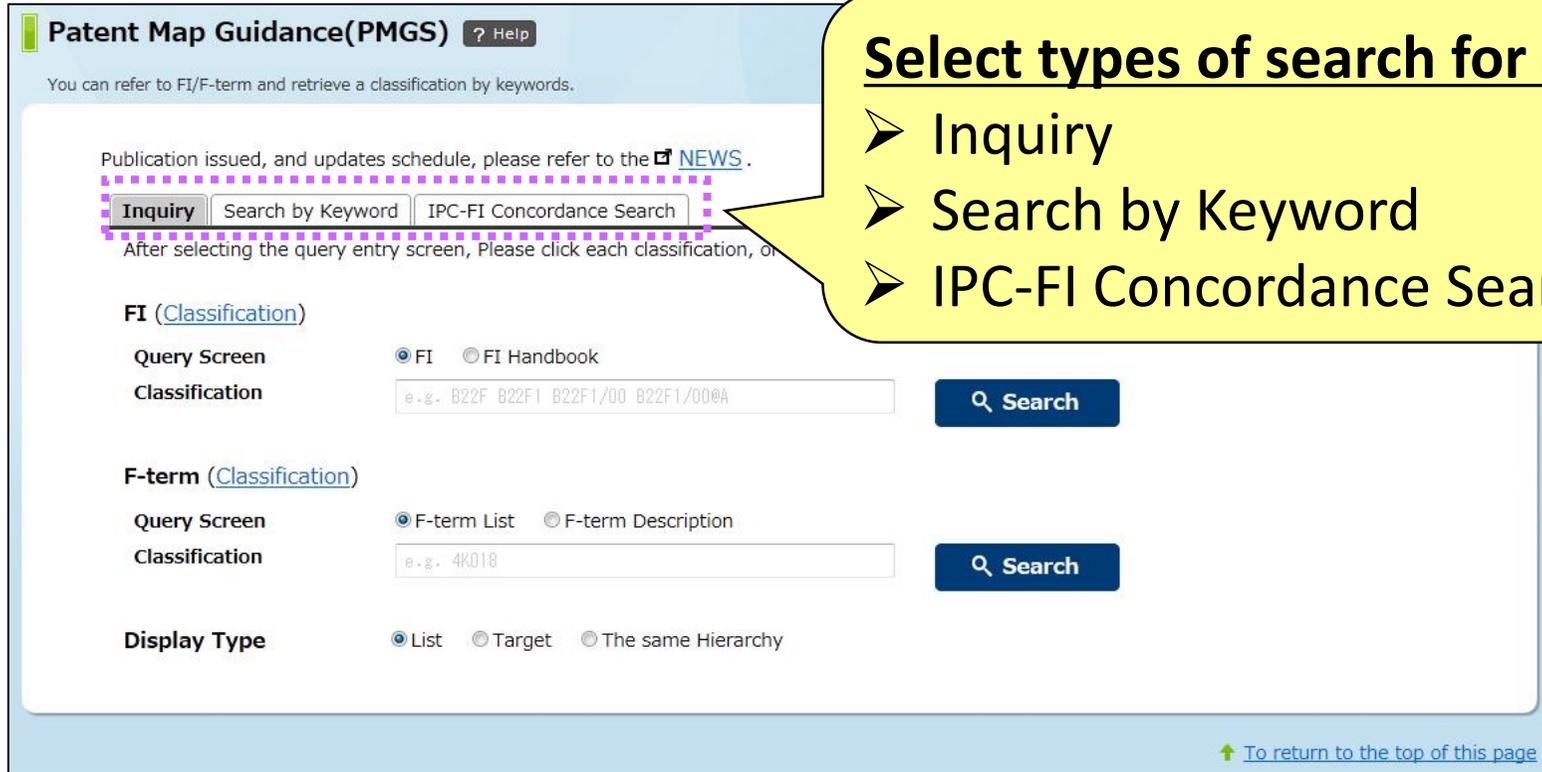
Query Screen F-term List F-term Description

Classification

Display Type List Target The same Hierarchy

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D. PMGS - 3/11



Patent Map Guidance(PMGS) ? Help

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Inquiry Search by Keyword IPC-FI Concordance Search

After selecting the query entry screen, Please click each classification, or

FI (Classification)

Query Screen FI FI Handbook

Classification

F-term (Classification)

Query Screen F-term List F-term Description

Classification

Display Type List Target The same Hierarchy

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Select types of search for classification

- Inquiry
- Search by Keyword
- IPC-FI Concordance Search

- ✓ Inquiry : FI/F-term search of specific classification
- ✓ Search by Keyword : FI/F-term search by using keywords
- ✓ IPC-FI Concordance Search : FI search by using IPC

D. PMGS - 4/11

Inquiry

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Inquiry | Search by Keyword | IPC-FI Concordance Search

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FI ([Classification](#))

Query Screen FI FI Handbook

Classification

F-term ([Classification](#))

Query Screen F-term List F-term Description

Classification

Display Type List Target The same Hierarchy

[↑ To return to the top of this page](#)

FI search

F-term search

D. PMGS - 5/11

Jump to a specific point in the hierarchical schedule of FI by entering its code

Patent Map Guidance(PMGS) Help Search → List

You can refer to FI/F-term and retrieve a classification by keywords.

Put **Click!** xdates schedule, please refer to the [NEWS](#).

Keyword

After selecting the query entry screen, Please click each classification, or input a classification into an input box and click.

FI (Classification)

Query Screen FI FI Handbook

Classification

F-term (Classification)

Query Screen F-term List F-term Description

Classification

Display Type List Target The same Hierarchy

[↑ To return to the top](#)

FI(List Indication)

This screen shows all FIs contained in the main group "G06F1/00". (HB : FI Handbook)

Display Type

List Target The same Hierarchy

FI	Explanation
1/00	Details not covered by groups G06F 3/00-G06F 13/00 (architectures of general purpose stored programme computers G06F 15/76)
310	Structures
311	Structures of areas adjacent to large computers
A	Structures of computer rooms
B	Acoustic or seismic resistant structures
C	Free-access floor structures
D	Seismic resistant structures
E	Floor structures

Go down to hierarchical schedule of FI

Section	Explanation
ASection	SECTION A — HUMAN NECESSITIES
BSection	SECTION B — PERFORMING OPERATIONS; TRANSPORTING
CSection	SECTION C — CHEMISTRY; METALLURGY
DSection	SECTION D — TEXTILES; PAPER

D. PMGS - 6/11

Jump to an F-term schedule of a specific theme by selecting the “F-term list” button and entering its F-term theme code, e.g., “5B035”

Patent Map Guidance(PMGS) [? Help](#)

You can refer to FI/F-term and retrieve a classification by keywords.

Publication issued, and updates schedule, please refer to the [NEWS](#).

Inquiry Search by Keyword IPC-FI Concordance Search

After selecting the query entry screen, Please click each classification, or input a classification into an input box and click.

FI ()

Query **Click!** FI FI Handbook

Classification

F-term (Classification)

Query Screen F-term List F-term Description

Classification

Display Type List Target The same Hierarchy

List	Description
5B035	RECORD CARRIERS FOR DIGITAL MARKINGS
	G06K19/00-19/18

Viewpoint	F-term										FI Cover Range
AA	AA00	AA01	AA02	AA03	AA04	AA05	AA06	AA07	AA08		G06K19/00-19/08
	PURPOSE *	. Increasing capacity	. Increasing speed	. Improving accuracy	. Facilitating manufacturing	. Reducing power consumption	. Using carriers for multiple purposes	. Reinforcing resistance *	. Reinforcing rigidity or measures against deformation *		
		AA11		AA13	AA14	AA15					
		. Measures against malfunctions or incorrect insertions *		. Measures against unauthorised use *	. verifying the authorisation of users	. verifying record carriers *					
BA	BA00	BA01	BA02	BA03	BA04	BA05	BA06	BA07	BA09		

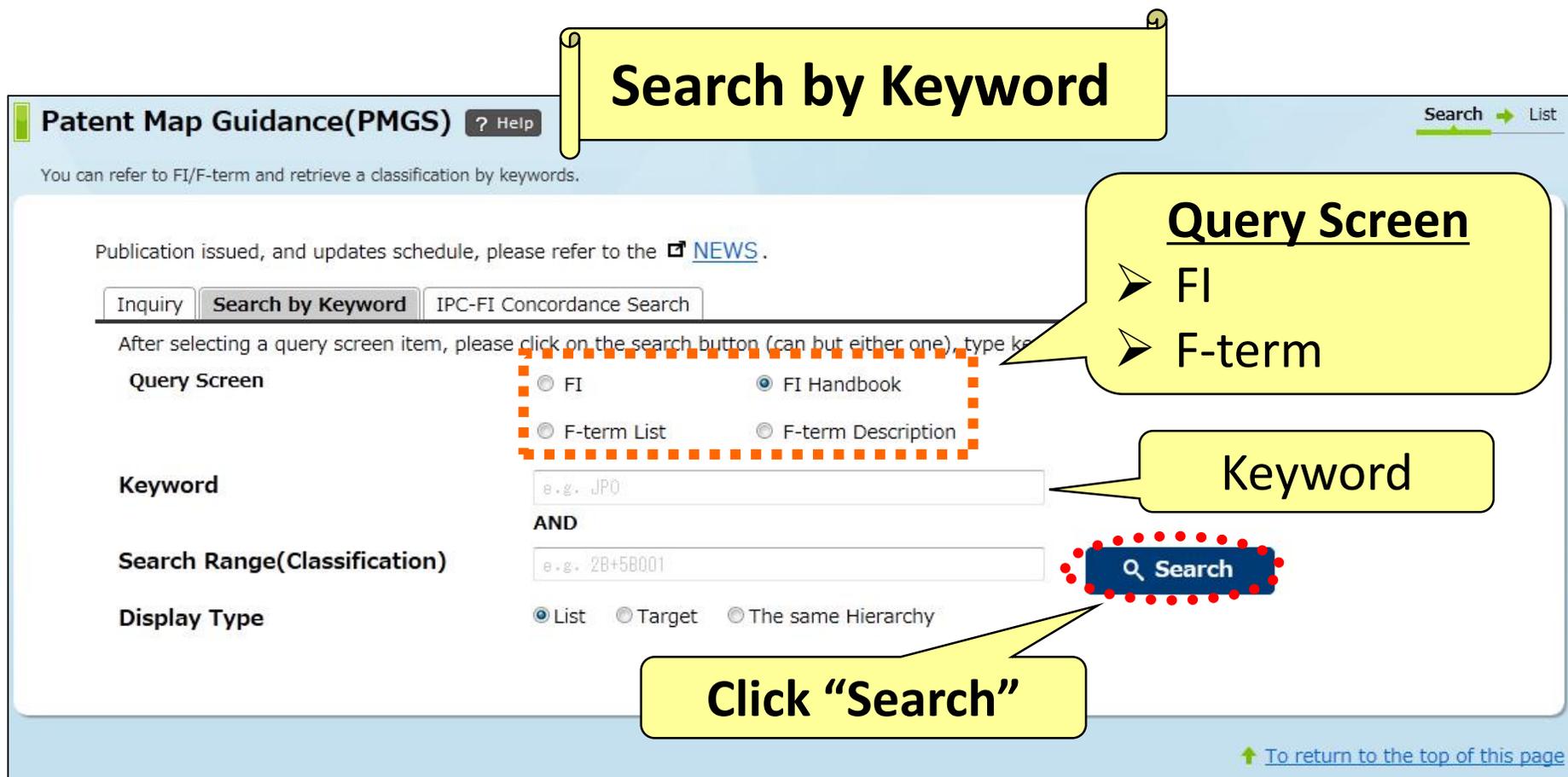
Go down to the hierarchical schedule of F-term

Group of Theme Selection

A group can be chosen on this screen. Click on a group

2B	2C	2D	2E	2F	2G	2H	2K	2N		
3B	3C	3D	3E	3F	3G	3H	3J	3K	3L	
4B	4C	4D	4E	4F	4G	4H	4J	4K	4L	4M
5B	5C	5D	5E	5F	5G	5H	5J	5K	5L	5M

D. PMGS - 7/11



Search by Keyword

Patent Map Guidance(PMGS) [? Help](#) Search → List

You can refer to FI/F-term and retrieve a classification by keywords.

Publication issued, and updates schedule, please refer to the [NEWS](#).

After selecting a query screen item, please click on the search button (can but either one), type key

Query Screen

- FI
- FI Handbook
- F-term List
- F-term Description

Keyword

AND

Display Type List Target The same Hierarchy

[↑ To return to the top of this page](#)

Query Screen

- FI
- F-term

Keyword

Click "Search"

D. PMGS - 8/11

The search results list is displayed.

- Query Screen = FI
- Keyword = toy

Click the FI **"A41D11/00@K"**.

FI	Explanation
A41D11/00@K	. Equipped with a toy
• A47G19/22@S	. having an accessory (toy , etc.)
• A63B69/04	. simulating the movement of ho

Click "A41D11/00@K"

D. PMGS - 9/11

Main group "A41D11/00"

FI(List Indication)

This screen shows all FIs contained in the main group "A41D11/00". (HB : FI Handbook)

• Display Type

List Target The same Hierarchy

FI	Explanation
• 11/00	Garments for children
	A Kinds of clothes for children
	B . Jackets
	C . Coverall
	D . . One-piece dresses
	E . Lower clothes
	F . . Lower clothes with chest and shoulder straps
	G . Overcoats
	H Functions of clothes for children
	J . Adjustment of height
	K . Equipped with a toy
	L . for both men and women

Clicked FI "A41D11/00@K"

D. PMGS - 10/11

IPC-FI Concordance Search

Patent Map Guidance(PMGS) Search → List

You can refer to FI/F-term and retrieve a classification by keywords.

Publication issued, and updates schedule, please refer to the [NEWS](#).

Input IPC code to the query box and click Search button.

Classification

Display Type List Target The same Hierarchy

[↑ To return to the top of this page](#)

Enter IPC

Click "Search"

D. PMGS - 11/11

Concordance List “G06T1/00”

Concordance List [IPC→FI]

IPC Code: G06T1/00

Display Type: List Target The same Hierarchy

Result

Hit count is 103.

IPC	FI
G06T1/00	G06T1/00
G06T1/00	G06T1/00@A
G06T1/00	G06T1/00@B
G06T1/00	G06T1/00@C
G06T1/00	G06T1/00@Z
G06T1/00	G06T1/00,200
G06T1/00	G06T1/00,200@A
G06T1/00	G06T1/00,200@B

E. FI/F-term search - 1/5

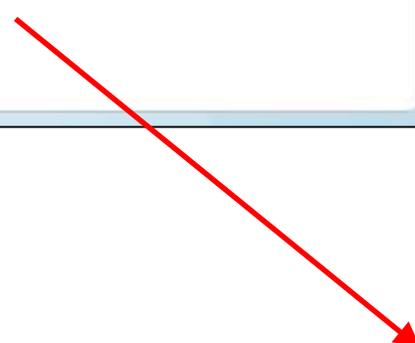
- All the Patent & Utility model gazettes and PAJ can be searched with the FI/F-term, which is a unique patent classification developed by the JPO.
 - Example of FI: B01J23/56,301A
 - Example of F-term: 4B027 FB21
- Search range is from 1885 to the present.
- Machine Translation is available for the gazettes published in 1993 and thereafter.

E. FI/F-term search - 2/5

Classification search

- [FI/F-term Search](#)

Click!



FI/F-term Search [? Help](#)

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Publication issued, and updates schedule, please refer to the [NEWS](#).

Kind(This choice can be omitted. When you have no check, all Kinds are chosen.)

Patent(A, A1, B) Patent specification(C)
 Utility model(U, U1, A1, Y) Examined utility model specification(Z)

Theme code

FI/F-term

*You can if you enter a theme, to omit the theme in F-term when searching for that theme.

Publication Date

from: -to:

Priority of search result display

Unexamined applications(A, U, U1, A1) Examined/Granted applications(B, Y)

[↑ To return to the top of this page](#)

E. FI/F-term search - 3/5

FI/F-term Search [? Help](#) Search → List → Detail

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Publication issued, and updates schedule, please refer to the [NEWS](#).

Kind(This choice can be omitted. When you have no check, all Kinds are chosen.)

Patent(A, A1, B) Patent specification(C)
 Utility model(U, U1, A1, Y) Examined utility model specification(Z)

Theme code

Theme code (Necessary for F-term search)

FI/F-term

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Publication Date

from: -to: Publication Date(optional)

Priority of search result display

Unexamined applications(A, U, U1, A1) Examined/Granted applications(B, Y)

Click "Search" !

62

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E. FI/F-term search - 4/5

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Patent(A, A1, B) Patent specification(C)
 Utility model(U, U1, A1, Y) Examined utility model specification(Z)

Theme code

2C150

FI/F-term

A63H15/00*AA01

Publication Date

from: -to:

Priority of search result display

Unexamined applications(A, U, U1, A1) Examined/Granted applications(B, Y)

Search results: **25**

Patent Map Guidance
 Data Coverage

25 documents were hit

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FI/F-term Search Results list

Results

Display Type All Pages Front Page Claims Drawings

Results 25 records.

No.	Document Number
1	JP.2007-210100.A
2	JP.2003-260275.A
3	JP.10-000279.A(1998)
4	JP.07-148354.A(1995)
5	JP.07-024399.U(1995)
6	JP.07-003083.U(1995)
7	JP.07-001993.U(1995)
8	JP.63-135205.A(1988)
9	JP.62-174598.U1(1987)
10	JP.60-147499.U1(1985)
11	JP.60-063397.U1(1985)
12	JP.59-061095.U1(1984)
13	JP.54-025385.U1(1979)
14	JP.53-115799.U1(1978)
15	JP.53-044095.U1(1978)
16	JP.53-037139.U1(1978)
17	JP.50-054293.U1(1975)
18	JP.48-104490.U1(1973)
19	JP.37-028505.Y(1962)
20	JP.37-009571.Y(1962)
21	JP.36-008243.Y(1961)
22	JP.31-005914.Y(1956)
23	JP.11-010130.Y(1936)
24	JP.02-001276.Y(1927)
25	JP.45637.Z

Click "document number"

E. FI/F-term search - 5/5

Selected Gazette

FI/F-term Search [Back](#) [? Help](#)

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Selected Gazette

JP,2003-260275,A

PAJ Detail Image

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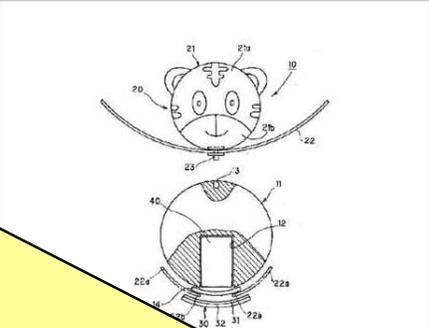
[Legal Status](#)

(11)Publication No. : 2003-260275
(43)Date of publication : 16.09.2003
(51)Int.Cl. : A63H 15/06
: B29D 3/02

(21)Application number : 2002-100000
(22)Date of filing : 08.03.2002
(71)Applicant : BENETSUSEI CO., LTD.
(72)Inventor : KAWASHIMA AYUMI
HASHIMOTO NAOKO

(54)SELF-RIGHTING TOY

(57)Abstract
PROBLEM TO BE SOLVED: To provide a self-righting toy, preventing deterioration of the toy, and the safety, and a method of manufacturing the toy.
SOLUTION: The toy is manufactured by covering polyurethane resin with an outer cover 20 consisting of an outer cover 20 integrally sewn to the head part 21, and a base part 22 integrally sewn to the head part 21, and a base part 22 with an adhesive layer 31 which manufactures a self-righting toy, for example.



Previous/Next Document

Legal Status

Selection of Tab

- PAJ : Patent Abstract of Japan
- Detail : Full Text (Machine Translation)
- Image : Original Japanese document

- I. Basics of Prior Art Search
- II. Search Strategy
- III. Search Tool - J-PlatPat
- IV. Search Tool - PATENTSCOPE**

A. Basics of PATENTSCOPE - 1/3

- PATENTSCOPE is run by the WIPO

- PATENTSCOPE gives you access to
 - weekly publication of new PCT applications
 - file inspection for international phase
 - more than 30 million documents from all over the world

- Four types of search are available
 - *Simple Search*
 - *Advanced Search*
 - *Field Combination*
 - *Cross Lingual Expansion*

A. Basics of PATENTSCOPE - 2/3

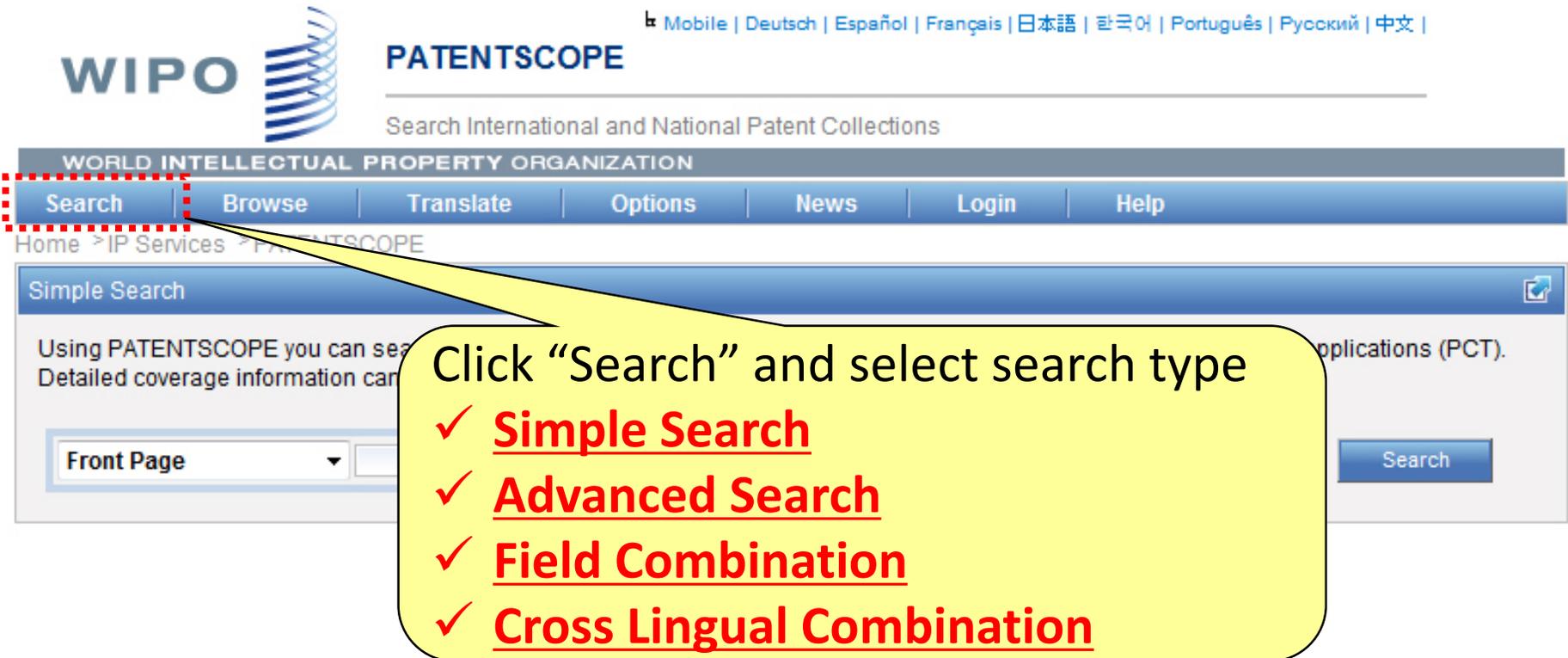
PATENTSCOPE <http://patentscope.wipo.int/search/en/search.jsf>



The screenshot shows the PATENTSCOPE search interface. At the top left is the WIPO logo (World Intellectual Property Organization). To its right is the PATENTSCOPE logo and a list of languages: Mobile | Deutsch | Español | Français | 日本語 | 한국어 | Português | Русский | 中文. Below this is the text "Search International and National Patent Collections". A navigation bar contains links for Search, Browse, Translate, Options, News, Login, and Help. Below the navigation bar is a breadcrumb trail: Home > IP Services > PATENTSCOPE. The main content area is titled "Simple Search" and contains the text: "Using PATENTSCOPE you can search 36 million patent documents including 2.2 million published international patent applications (PCT). Detailed coverage information can be found here (->)". At the bottom of the search area is a search form with a dropdown menu set to "Front Page", a search input field, a help icon, and a "Search" button. The text "Office: All" is displayed to the left of the search button.

A. Basics of PATENTSCOPE - 3/3

PATENTSCOPE <http://patentscope.wipo.int/search/en/search.jsf>



WIPO PATENTSCOPE

Search International and National Patent Collections

WORLD INTELLECTUAL PROPERTY ORGANIZATION

Search | Browse | Translate | Options | News | Login | Help

Home > IP Services > PATENTSCOPE

Simple Search

Using PATENTSCOPE you can search for patent information. Detailed coverage information can be found in the user manual. Applications (PCT).

Front Page

Search

Click "Search" and select search type

- ✓ Simple Search
- ✓ Advanced Search
- ✓ Field Combination
- ✓ Cross Lingual Combination

B. Simple Search - 1/3



WIPO PATENTSCOPE
Search International and National Patent Collections

Mobile | Deutsch | Español | Français | 日本語 | 한국어 | Português | Русский | 中文

WORLD INTELLECTUAL PROPERTY ORGANIZATION

Search Browse Translate Options News Login Help

Home > IP Services > PATENTSCOPE

Simple Search

Using PATENTSCOPE you can search 36 million patent documents including 2.2 million published international patent applications (PCT). Detailed coverage information can be found here (->)

Front Page Office: All

Search Field

Search Box

Search Button

Cited from <http://patentscope.wipo.int/search/en/search.jsf>

1. Select Search Field
2. Enter query in Search Box.
3. Click Search Button

■ You can select Search Fields in the following list

- Front page
- Any field
- Full text
- English text
- ID / Number
- IPC
- Names
- Dates

B. Simple Search - 2/3

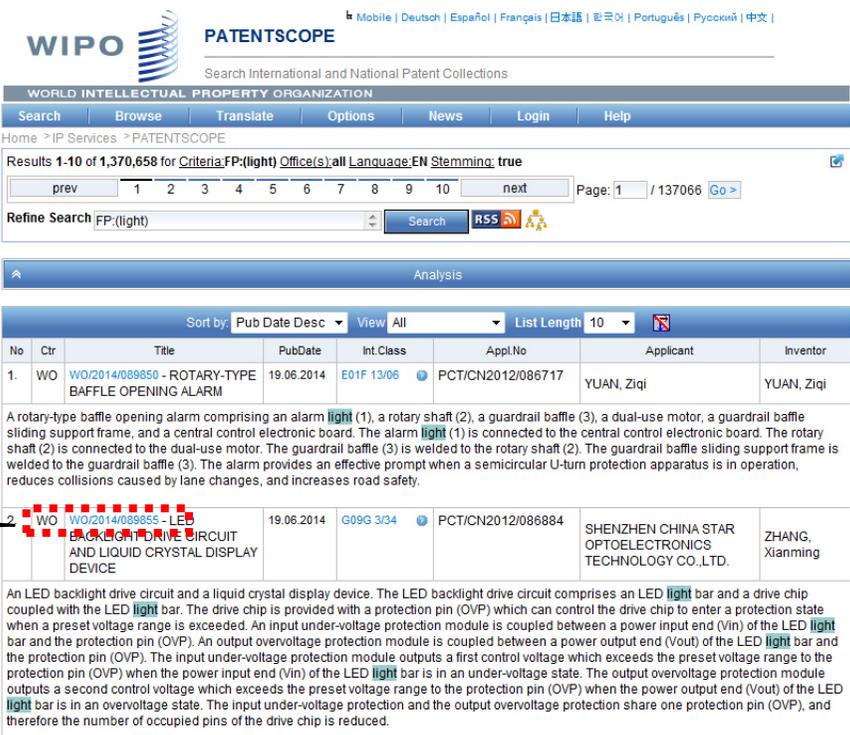


- 1. Select "Front Page"
- 2. Enter "Light"
- 3. Click "Search"

Click "Number"



Search Results list



B. Simple Search - 3/3

Bibliographic data

WIPO PATENTSCOPE Search International and National Patent Collections

Home > IP Services > PATENTSCOPE

3. (WO2014091531) OPTICAL INFORMATION REPRODUCTION DEVICE AND OPTICAL INFORMATION REPRODUCTION METHOD

PCT Biblio. Data | Full Text | National Phase | Notices | Drawings | Documents

Latest bibliographic data on file with the International Bureau [Submit observation](#) [PermaLink](#)

Pub. No.: WO/2014/091531 International Application No.: PCT/JP2012/081873
 Publication Date: 19.06.2014 International Filing Date: 10.12.2012

IPC: G11B 7/0065 (2006.01), G11B 7/135 (2012.01)

Applicants: HITACHI CONSUMER ELECTRONICS CO., LTD. [JP/JP]; 2-1, Otemachi 2-chome, Chiyoda-ku, Tokyo 1000004 (JP)
 Inventors: HOSAKA, Makoto; (JP)
 Agent: INOUE, Manabu; c/o HITACHI, LTD., 6-1, Marunouchi 1-chome, Chiyoda-ku, Tokyo 1008220 (JP)

Title (EN) OPTICAL INFORMATION REPRODUCTION DEVICE AND OPTICAL INFORMATION REPRODUCTION METHOD
 (FR) DISPOSITIF DE REPRODUCTION D'INFORMATIONS OPTIQUES ET PROCÉDÉ DE REPRODUCTION D'INFORMATIONS OPTIQUES
 (JA) 光情報再生装置及び光情報再生方法

Abstract (EN) Provided is an optical information reproduction device in which holography is used, wherein the multiplexing, the wavelength, and the vertical angle of the reference light can be appropriately corrected during data reproduction. Also provided is a method for performing same. An optical information reproduction device for using holography to reproduce information from an optical information recording medium, wherein reference light multiplexing and vertical angle error signals are generated from a signal detected by a light detector; the reference light multiplexing and vertical angle are adjusted using the vertical angle adjustment unit on the basis of the angle error signal; a wavelength error signal

Documents of international phase

WIPO PATENTSCOPE Search International and National Patent Collections

Home > IP Services > PATENTSCOPE

3. (WO2014091531) OPTICAL INFORMATION REPRODUCTION DEVICE AND OPTICAL INFORMATION REPRODUCTION METHOD

PCT Biblio. Data | Full Text | National Phase | Notices | Drawings | Documents

International Application Status

Date	Title	View	Download
24.06.2014	International Application Status Report	HTML, PDF	PDF, XML

Published International Application

Date	Title	View	Download
19.06.2014	Initial Publication with ISR (A1 25/2014)	PDF (51p.)	PDF (51p.), ZIP(XML + TIFFs), XML

Related Documents on file at the International Bureau

Date	Title	View	Download
19.06.2014	Application Body as Filed	PDF (47p.)	PDF (47p.), ZIP(XML + TIFFs)
19.06.2014	(RO/101) Request form	PDF (3p.)	PDF (3p.), ZIP(XML + TIFFs)
19.06.2014	(IB/301) Notification of receipt of record copy	PDF (1p.)	PDF (1p.), ZIP(XML + TIFFs)
19.06.2014	Translation of the ISR	PDF (2p.)	PDF (2p.), ZIP(XML + TIFFs)
19.06.2014	International Search Report	PDF (3p.)	PDF (3p.), ZIP(XML + TIFFs)
19.06.2014	(IB/311) Notification Concerning Availability of Publication of the International Application	PDF (1p.)	PDF (1p.), ZIP(XML + TIFFs)

Various types of useful information are available

C. Advanced Search - 1/2



The screenshot shows the WIPO PATENTSCOPE Advanced Search interface. At the top left is the WIPO logo. To its right is the text 'PATENTSCOPE' and a list of languages: Mobile | Deutsch | Español | Français | 日本語 | 한국어 | Português | Русский | 中文. Below this is the tagline 'Search International and National Patent Collections'. A navigation bar contains links for Search, Browse, Translate, Options, News, Login, and Help. The breadcrumb trail reads 'Home > IP Services > PATENTSCOPE'. The main search area is titled 'Advanced Search' and contains a 'Search For:' text input field with a help icon. Below the input field are 'Language:' (set to English), 'Stem:' (checked), and 'Office:' (set to All) with a 'Specify' link. 'Search' and 'Reset' buttons are at the bottom right. A 'Tooltip Help' checkbox is at the bottom left.

Cited from <http://patentscope.wipo.int/search/en/advancedSearch.jsf>

- Advanced Search accepts complex search queries
- Field Codes and Operators are available to create the queries

Field Code : <http://patentscope.wipo.int/search/en/help/fieldsHelp.jsf>

Operator : <http://patentscope.wipo.int/search/en/help/querySyntaxHelp.jsf>

C. Advanced Search - 2/2

~ *Examples of search queries* ~

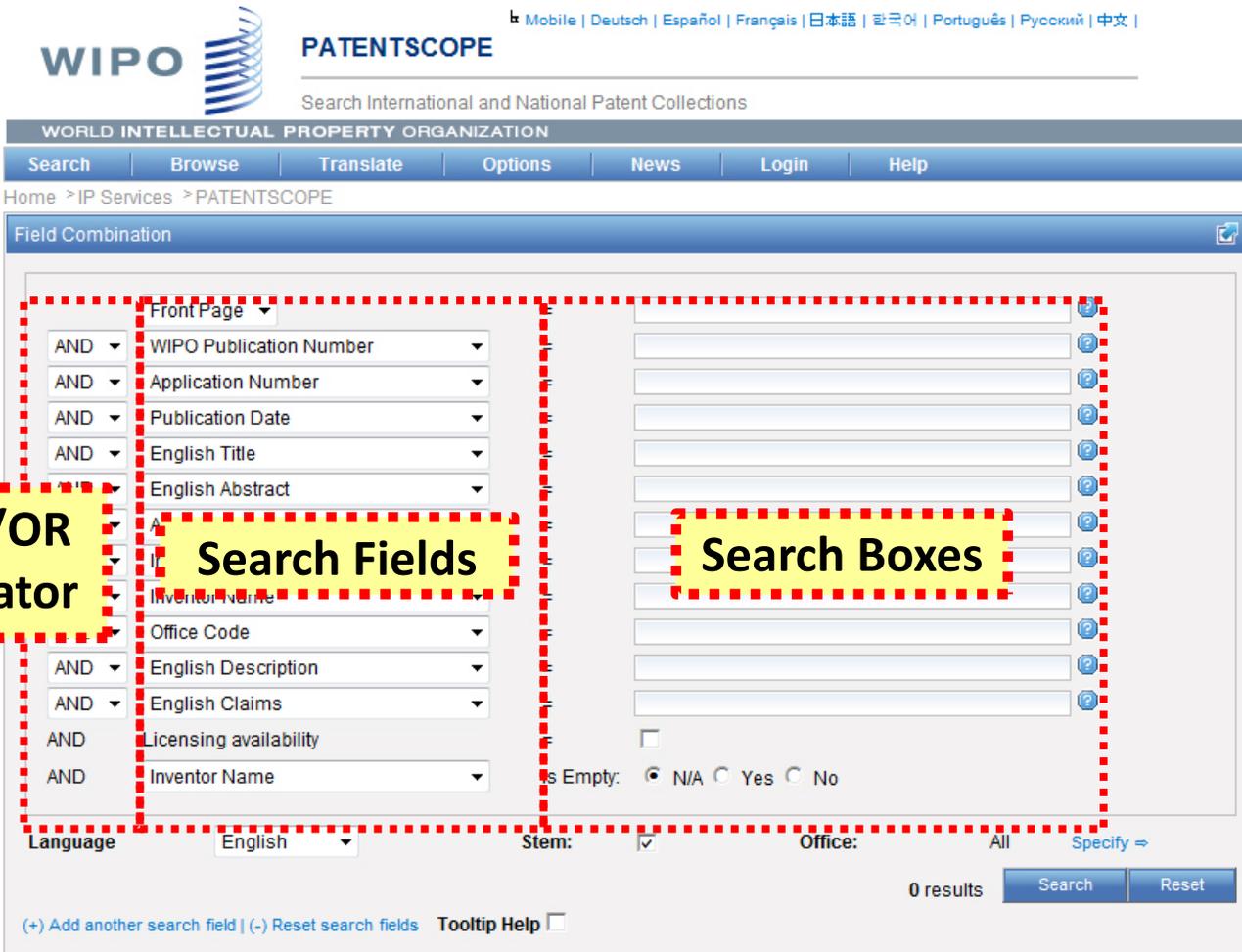
Example 1 Cutting NEAR5 trunk

“cutting” and “trunk” are located within 5 words of each other

Example 2 IN(Jobs) AND DP:[2007 TO 2009] AND EN_DE(TOUCH)

Inventions by Steve Jobs published during the period from 2007 to 2009 containing the keyword “touch” in the description

D. Field Combination



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Home > IP Services > PATENTSCOPE

Field Combination

Front Page

AND WIPO Publication Number

AND Application Number

AND Publication Date

AND English Title

AND English Abstract

AND English Description

AND English Claims

AND Licensing availability

AND Inventor Name

Search Boxes

AND/OR operator

Search Fields

Language: English

Stem:

Office: All

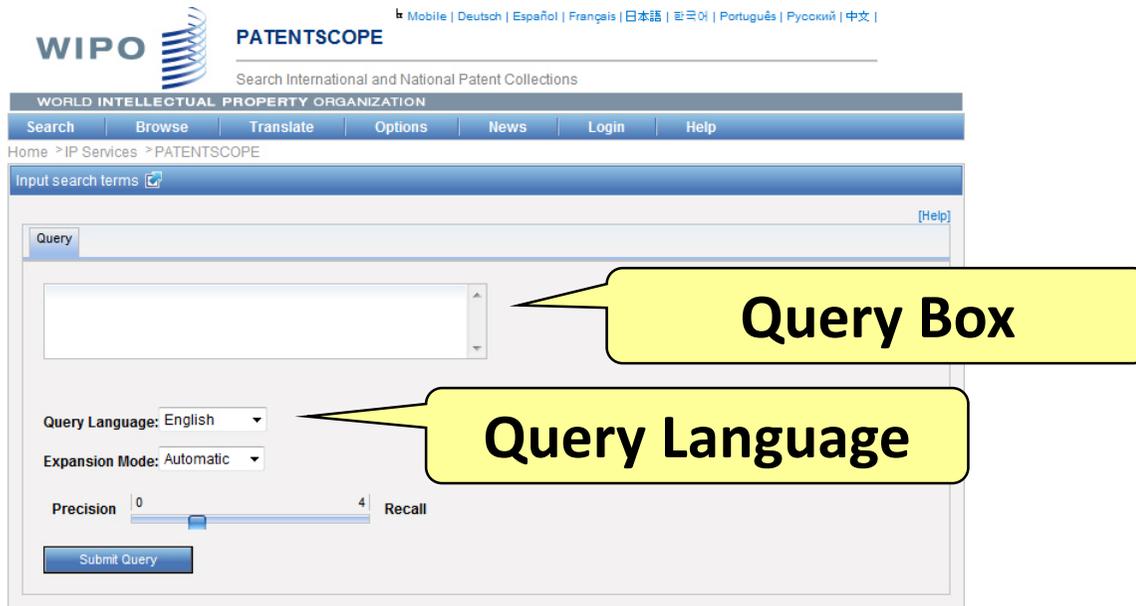
0 results

Search Reset

(+) Add another search field | (-) Reset search fields | Tooltip Help

Any combinations of the preset search fields are available

E. Cross Lingual Expansion - 1/2



1. Select Query Language *
2. Enter terms in the selected language in the Query Box.
3. Automatically, the terms are expanded and then the expanded terms are translated into the other languages.
4. Documents in the other languages * are searched.

Cited from <http://patentscope.wipo.int/search/en/clir/clir.jsf>

E. Cross Lingual Expansion - 2/2

Search result : Language is “English” and term is “Light”

WIPO PATENTSCOPE
Search International and National Patent Collections

World Intellectual Property Organization

Home > IP Services > PATENTSCOPE

Results 1-10 of 5,445,481 for Criteria:FP:(EN_Tl:(“light” OR “optics”) OR EN_AB:(“light” OR “optics”)) OR (DE_Tl:(“Light” OR “Licht” OR “leichter” OR “Leuchte” OR “Optik” OR “niedrigen” OR “optischen” OR “Optics”) OR DE_AB:(“Light” OR “Licht” OR “leichter” OR “Leuchte” OR “Optik” OR “niedrigen” OR “optischen” OR “Optics”)) OR (ES_Tl:(“luz” OR “ligeras” OR “iluminación” OR “lampara” OR “luminoso” OR “óptica” OR “fibras” OR “activa” OR “maximizar”) OR ES_AB:(“luz” OR “ligeras” OR “iluminación” OR “lampara” OR “luminoso” OR “óptica” OR “fibras” OR “activa” OR “maximizar”)) OR (FR_Tl:(“optique” OR “lumière” OR “lumineux” OR “éclairage” OR “légères” OR “léger” OR “lampe” OR “feu”) OR FR_AB:(“optique” OR “lumière” OR “lumineux” OR “éclairage” OR “légères” OR “léger” OR “lampe” OR “feu”)) OR (IT_Tl:(“luce” OR “leggere” OR “leggero” OR “utilizza una ottica” OR “ottica”) OR IT_AB:(“luce” OR “leggere” OR “leggero” OR “utilizza una ottica” OR “ottica”) OR (JA_Tl:(“ライト” OR “発光” OR “状” OR “灯” OR “光線” OR “透” OR “軽質” OR “軽量” OR “光波”) OR JA_AB:(“ライト” OR “発光” OR “状” OR “灯” OR “光線” OR “透” OR “軽質” OR “軽量” OR “光波”)) OR (KO_Tl:(“광” OR “라이트” OR “전계” OR “경질” OR “발광” OR “도광판” OR “투과광” OR “타이볼트” OR “광필”) OR KO_AB:(“광” OR “라이트” OR “전계” OR “경질” OR “발광” OR “도광판” OR “투과광” OR “타이볼트” OR “광필”)) OR (NL_Tl:(“licht” OR “cementsuspensie” OR “lichtgewicht”) OR NL_AB:(“licht” OR “cementsuspensie” OR “lichtgewicht”)) OR (PT_Tl:(“luz” OR “lèves” OR “ligeiros” OR “ópticas” OR “selabilidade” OR “dispositivo óptico” OR “á”) OR PT_AB:(“luz” OR “lèves” OR “ligeiros” OR “ópticas” OR “selabilidade” OR “dispositivo óptico” OR “á”)) OR (RU_Tl:(“светового” OR “света” OR “легких” OR “светлого” OR “оптики” OR “для” OR “оптических”) OR RU_AB:(“светового” OR “света” OR “легких” OR “светлого” OR “оптики” OR “для” OR “оптических”)) OR (SV_Tl:(“latta” OR “ljus” OR “letta” OR “belysningsarmatur” OR “ljettklengergrunder” OR “flerskiktade” OR “laetta” OR “optik” OR “astronomiskt optiskt”) OR SV_AB:(“latta” OR “ljus” OR “letta” OR “belysningsarmatur” OR “ljettklengergrunder” OR “flerskiktade” OR “laetta” OR “optik” OR “astronomiskt optiskt”)) OR (ZH_Tl:(“轻质” OR “灯光” OR “光波” OR “光学” OR “轻型” OR “电灯” OR “低” OR “发光” OR “照明”) OR ZH_AB:(“轻质” OR “灯光” OR “光波” OR “光学” OR “轻型” OR “电灯” OR “低” OR “发光” OR “照明”)) Office(s):all Language:JA Stemming: true

Page: 1 / 544549

Refine Search FP:(EN_Tl:(“light” OR “optics”) OR EN_AB:(“light” OR “optics”)) OR (DE_Tl:(“Light” OR “Licht” OR “leichter” OR “Leuchte” OR “Optik” OR ...)

Search Queries

Analysis

No	Ctr	Title	PubDate	Int. Class	Appl.No	Applicant	Inventor
1.	WO	WO/2010/120257 - OPTICAL LIGHT MODULATOR	21.10.2010	G02B 6/02	PCT/JA2010 /000017	KAPACU, Andrej Victorovich	KAPACU, Andrej Victorovich
<p>The invention is used for controlling light beams in optical logic elements, optical computers, optical fibre lines, Q-switches and integrated optics devices. The optical light modulator is in the form of an optical fibre consisting of a core and a cladding that contains photochromic substances. The technical advantages are high reliability, a simple design, low manufacturing costs and high immunity to interference during operation in an electrically conductive medium or in strong electric fields. The device can also be operated using natural sources of light.</p>							
2.	WO	WO/2012/177184 - OPTICAL ELEMENT FOR ROTATING OR STOPPING A BEAM OF LIGHT	27.12.2012	G02B 5/04	PCT/RU2012 /000490	ZAKRYTOE AKTSIONERNOE OBSHCHESTVO "TSENTRAL'NAYA	MAKOVETS, Georgy Konstantinovich

Search Results list

Cited from <http://patentscope.wipo.int/search/en/clir/clir.jsf>