

Patent Classification and Search key

Japan Patent Office

- I. IPC
- II. FI
- III. F-term
- IV. Reference tool

I. IPC

II. FI

III. F-term

IV. Reference tool

A. History - 1/4

- In the past, patent documents were classified according to different classification systems originally developed in each individual country.
- In 1971, the Strasbourg Agreement Concerning the International Patent Classification was sealed, and it came into effect in 1975.
- The IPC had been revised almost every five years, up to the seventh version, to address technological innovations and increased documents.

A. History - 2/4

The first edition of the Classification was in force from September 1, 1968 to June 30, 1974.

IPC ver. 2	July 1, 1974 to Dec. 31, 1979
IPC ver. 3	Jan. 1, 1980 to Dec. 31, 1984
IPC ver. 4	Jan. 1, 1985 to Dec. 31, 1989
IPC ver. 5	Jan. 1, 1990 to Dec. 31, 1994
IPC ver. 6	Jan. 1, 1995 to Dec. 31, 1999
IPC ver. 7	Jan, 1, 2000 to Dec. 31, 2005
IPC ver. 8 (IPC 2006.01 -)	Jan. 1, 2006 to the present

A. History - 3/4

IPC Reform (2006)

Advanced level

Large-scale patent
offices

70,000 items

As needed

Main targets

No. of class. Items

Interval of revision

Core level

Small/middle-scale
patent offices

17,000 items

Every 3 years

Example: A61K31/00 Preparation of drugs containing organic active components

31/01 ▪ hydrocarbon

31/015 ▪ ▪ cyclic

31/02 ▪ halogenated hydrocarbon

31/025 ▪ ▪ carbocyclic

31/03 ▪ ▪ ▪ aromatic

31/04 ▪ nitro compound

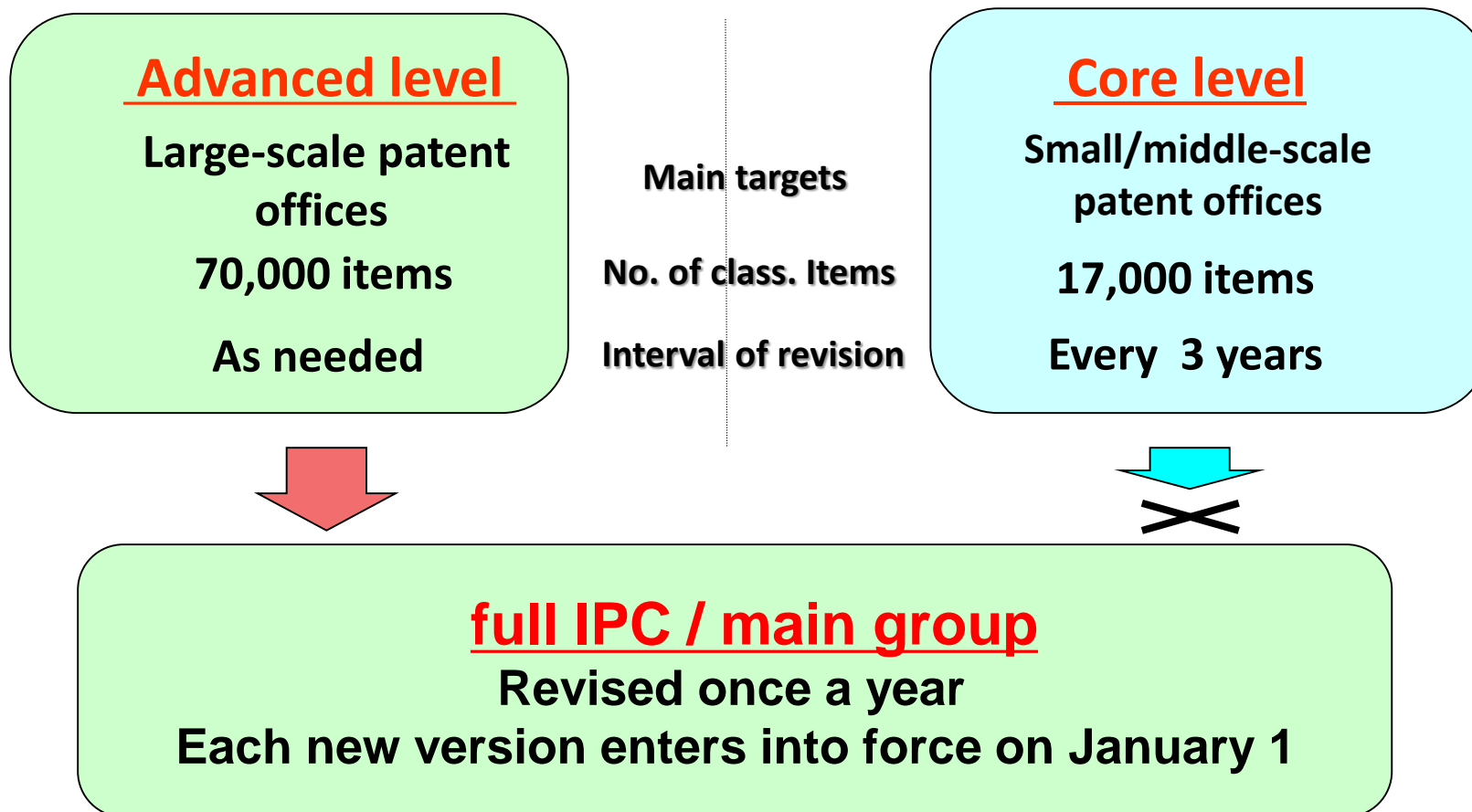
→ 31/01 ▪ hydrocarbon

→ 31/02 ▪ halogenated hydrocarbon

→ 31/04 ▪ nitro compound

A. History - 4/4

IPC Simplification (2011)



B. Layout of classification symbols – 1/2

A01G 3/02

complete classification symbol; consists of different components

A Section (A, B, ... H)

A01 Class (any 2 digits)

A01G Subclass (any letter)

A01G 3/02 Group

Main group part

Subgroup part

B. Layout of classification symbols – 2/2

Two types of groups: Main groups
 Subgroups of main groups

A01G 3/00 Main group xxx/00

A01G 3/02 Subgroup xxx/yy (yy ≠ 00)
 xxx/yyyyyy

C. Hierarchical structure – 1/3

section	subsections
A: HUMAN NECESSITIES	AGRICULTURE; FOODSTUFFS/TOBACCO; PERSONAL OR DOMESTIC ARTICLES; HEALTH/LIFE-SAVING/AMUSEMENT
B: PERFORMING OPERATIONS; TRANSPORTING	SEPARATING/MIXING; SHAPING; PRINTING; TRANSPORTING; MICRO-STRUCTURAL TECHNOLOGY/NANO-TECHNOLOGY
C: CHEMISTRY; METALLURGY	CHEMISTRY; METALLURGY; COMBINATORIAL TECHNOLOGY
D: TEXTILES; PAPER	TEXTILES OR FLEXIBLE MATERIALS NOT OTHERWISE PROVIDED FOR; PAPER
E: FIXED CONSTRUCTIONS	BUILDING; EARTH OR ROCK DRILLING/MINING
F: MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING	ENGINES OR PUMPS; ENGINEERING IN GENERAL; LIGHTING/HEATING; WEAPONS/BLASTING
G: PHYSICS	INSTRUMENTS; NUCLEONICS
H: ELECTRICITY	

C. Hierarchical structure – 2/3

■ section

A: HUMAN NECESSITIES

■ subsection:

AGRICULTURE

■ class:

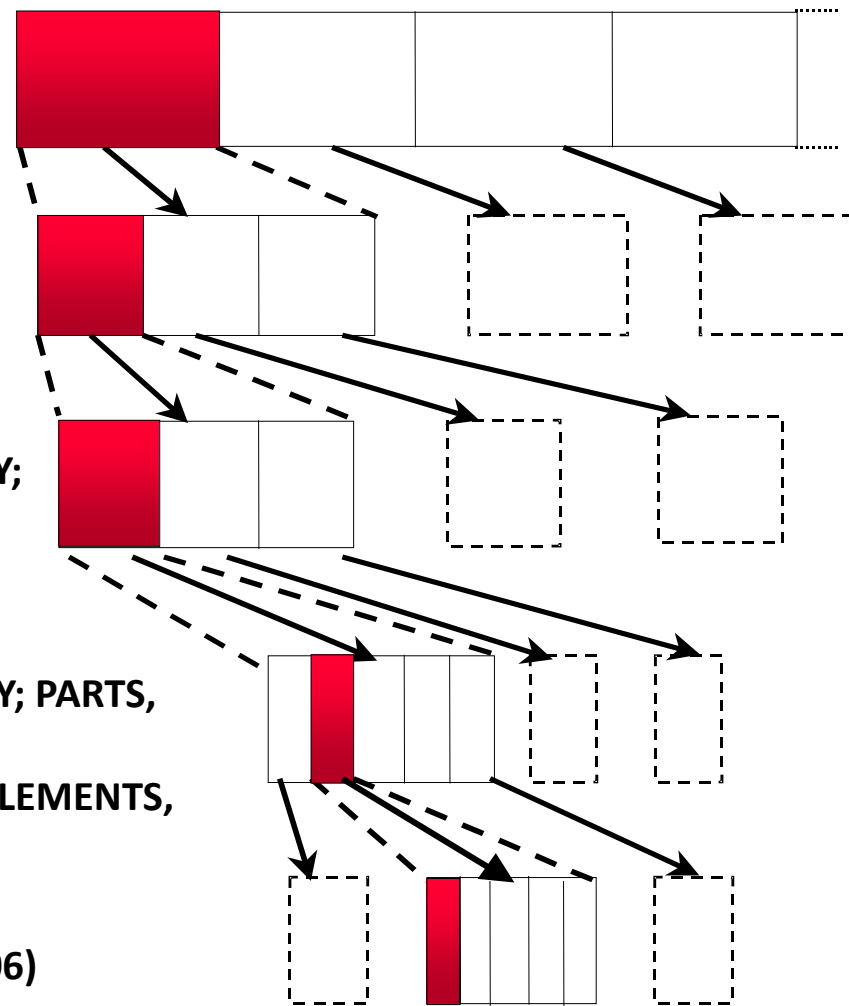
A01: AGRICULTURE; FORESTRY; ANIMAL HUSBANDRY;
HUNTING; TRAPPING; FISHING

■ subclass:

A01B: SOIL WORKING IN AGRICULTURE OR FORESTRY; PARTS,
DETAILS, OR
ACCESSORIES OF AGRICULTURAL MACHINES OR IMPLEMENTS,
IN GENERAL

■ main group:

1/00: Hand tools (edge trimmers for lawns A01G 3/06)



C. Hierarchical structure – 3/3

(Main group)

A01B 1/00 Hand tools (edge trimmers for lawns A01G 3/06)

(Subgroups)

1/02 ▪ Spades; Shovels

1/04 ▪ ▪ with teeth

1/06 ▪ Hoes; Hand cultivators

1/08 ▪ ▪ with a single blade

1/10 ▪ ▪ with two or more blades

1/12 ▪ ▪ with blades provided with teeth

1/14 ▪ ▪ with teeth only

1/16 ▪ Tools for uprooting weeds

1/18 ▪ ▪ Tong-like tools

1/20 ▪

1/22 ▪

:

(Main group)

1/00

(Subgroups)

1/02

1/04

1/06

1/08

1/10

1/12

1/14

1/16

1/18

1/20

1/22

I. IPC

II. FI

III. F-term

IV. Reference tool

FI (File Index) is a domestic classification system developed and maintained by the JPO. It has the following features.

- Hierarchical tree structure which enables subdivision of Subgroups of the International Patent Classification (IPC)
 - Assigned **mainly** to the Japanese patent publications and the Japanese utility model gazettes
- JPO recently started to assign FIs also to some Chinese documents.

Correspondence between FI and IPC

Section A				Section B								Section H			
01	01		01	01									
A	B			A	B										

IPC:
70,000
entries

1/00	1/02	1/04	1/06	1/08	2/00	2/02	2/04	2/06
------	------	------	------	------	------	------	------	------

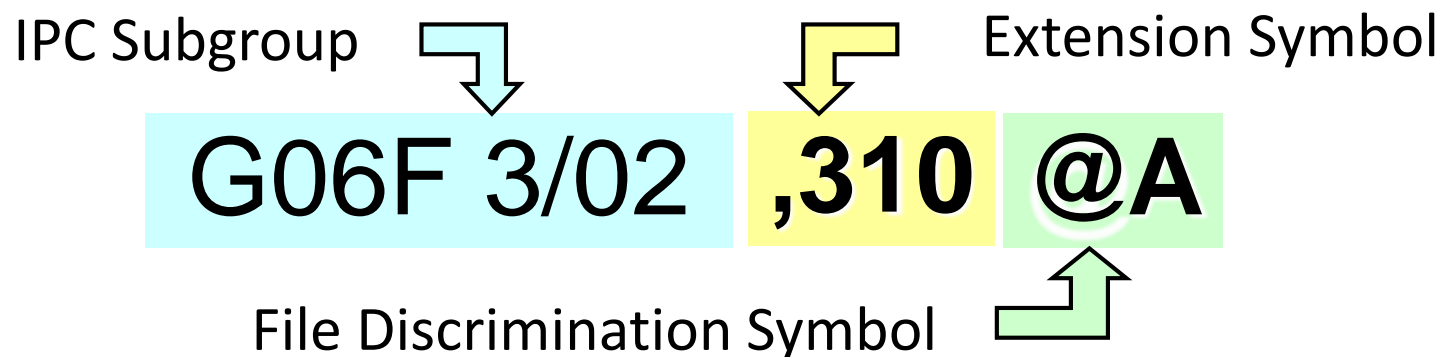
Main group
Sub group

1/00				1/02		1/04	1/06	1/08	2/00	2/02			2/04				2/06		
A	B	C	Z	101	102		A	B	Z		A	B	301	301	Z	A	B	C	Z
													A	B					

Subdividing an IPC subgroup into FIs

FI:
190,000
entries

■ General format of FI



■ Other formats of FI

- G06K 9/18 (IPC subgroup *per se*)
- G06K 9/20 @A (no extension symbol)
- G06K 9/20 ,330 (no file discrimination symbol)

Hierarchical dots of FI, e.g., in G06K 9/20

9/20			. Image acquisition
9/20	,310		.. Mechanisms of character entry units
9/20	, 310	@A	Character entry systems
9/20	, 310	@G	. Structure of photodetectors
9/20	, 310	@H	.. Positioning of photodetectors
9/20	, 330		.. Character reading methods

2 dots indicate lower level than 1 dot

FDSs subdivide an entry with ES

“**Theme**” is a unique idea introduced by the JPO in order to categorize FI according to technical relevance.
Each theme is specified by a particular **code** and associated with ranges of FIs.

Range of FI	Theme code
→ G06F 3/01	5E555
G06F 3/02 - 3/027	5B020
G06F 3/03	5B068
G06F 3/033 - 3/041,340	5B087
G06F 3/041,350 - 3/047	5B068
→ G06F 3/048	5E555

I. IPC

II. FI

III. F-terms

IV. Reference tool

F-term (**File forming term**) is a unique classification system invented and maintained by the JPO. It has the following features.

- Hierarchical tree structure with multi-aspect enables analysis of a patent document from multiple -viewpoints
- Assigned mainly to **MOST** Japanese patent publications and Japanese utility model gazettes
 - JPO recently started to assign F-terms also to some Chinese documents.

III. F-term

Relationship between FI, Theme, and F-term

1/00				1/02		1/04	1/06			1/08	2/00	2/02				2/04				2/06				FI	
A	B	C	Z	101	102		A	B	Z			A	B	301 A	301 B	Z	A	B	C	Z	A	B	C		Z
Theme 1 (with F-term)											Theme 2 (without F-term)						Theme 3 (with F-term)						Theme		
						AA 00	AA 01	AA 02	AA 03	AA 04															
						BB 00	BB 01	BB 02																	
						CC 00	CC 01	CC 02	CC 03																
						DD 00	DD 01	DD 02	DD 03																
																							F-term		

Comparison among FI, F-term, & IPC

	FI	F-term	IPC
Total number of entries	190,000	360,000	70,000
Coverage of patent documents	*Mainly JP documents	*Mainly JP documents	Global
Coverage of technical fields	100%	70%	100%
Function	Categorize	Analyze	Categorize

*JPO started to assign FI / F-term to some Chinese documents

III. F-term

Theme code Subject of theme

5B020

INPUT FROM KEYBOARDS OR THE LIKE

G06F3/02-3/027

The theme 5B020 as a whole covers this range of FIs

Viewpoint	F-term										FI Cover Range
AA	AA00	AA01	AA02	AA03	AA04	AA05		A			G06F3/02-3/027
	INPUT DATA	. Numbers	. Alphanumeric characters	. Kana	. . Japanese syllabaries	. . Roman characters		. Chinese character			
		AA11	AA12	AA13		AA15	AA16	A		AA20	
		. Items	. Commands	. Programmes		. Functions	. . Shift input	. . Curs		. Others	
BB	BB00	BB01	BB02	BB03	BB04	BB05				BB10	
	INCORPORATING	. Electronic	. Terminals	. Point-	. Clocks	. Copiers				. Others	
JJ	JJ00	JJ01	JJ02	JJ03	JJ04						G06F3/02,380@D
	ERROR	. detecting input data errors	. . inputting identical data a plurality of times	. . comparing with registered data	. . compa with input from other means						
		JJ11	JJ12	JJ13	JJ14						
		. Failures of input equipment	. . checking circuits	. . Automatic testing	. . checking during operation						G06F3/02,380@E; 3/02,380@Z
KK	KK00	KK01	KK02	KK03		KK05	KK06	KI			G06F3/02,390@A-

Terms from AA01 through AA20 belong to the Viewpoint AA that means "INPUT DATA"

Terms from JJ11 through JJ14 are assigned only to documents having these FI ranges

Utilizing F-term as a search key

- Specify the F-term theme based on FI or IPC
- Select F-terms that match technical elements of a search target
- Compose search queries by combining these terms

Example of a search target

*“Granular calcium oxide ceramics
with low heat expansion”*

-> Theme 4G031 Composition of oxide ceramics

F-term AA04, BA24, CA05

-> Query 4G031(AA04*BA24*CA05)

III. F-term

Example of a search target
“Granular calcium oxide ceramics
with low heat expansion”

4G031		Composition of oxide ceramics					
		C04B35/42-35/51					
Viewpoint		F-term					
AA	AA00	AA01	AA02	AA03	AA04	AA05	AA06
	COMPONENTS	. Alkali-metal oxides	. Alkali-earth-metal oxides	. Magnesium oxides	. Calcium oxides	. Strontium oxides	. Barium oxides
BA	BA00	BA01	BA02	BA03	BA04	BA05	BA06
	FUNCTIONS AND USES	. Electric and electrical functions and uses	. Conductivity	. Ion conductivity	. Voltage non-linear resistance bodies	. P-type conduction (PTC) semiconductors	. N-type conduction (NTC) semiconductors
CA	CA00	CA01	CA02	CA03	CA04	CA05	CA06
	STRUCTURES	. Control of the crystal phase	. Arrangement of crystals	. Structures wherein different layers are composed of different compounds	. Crystal grains of characteristic shapes and sizes	. Granularity	

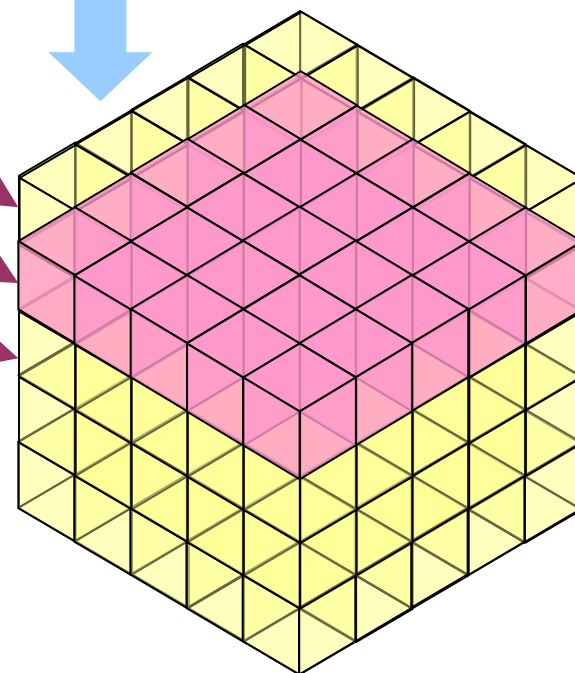
AA04
.. Calcium oxides

viewpoint AA
“components”

AA03

AA04

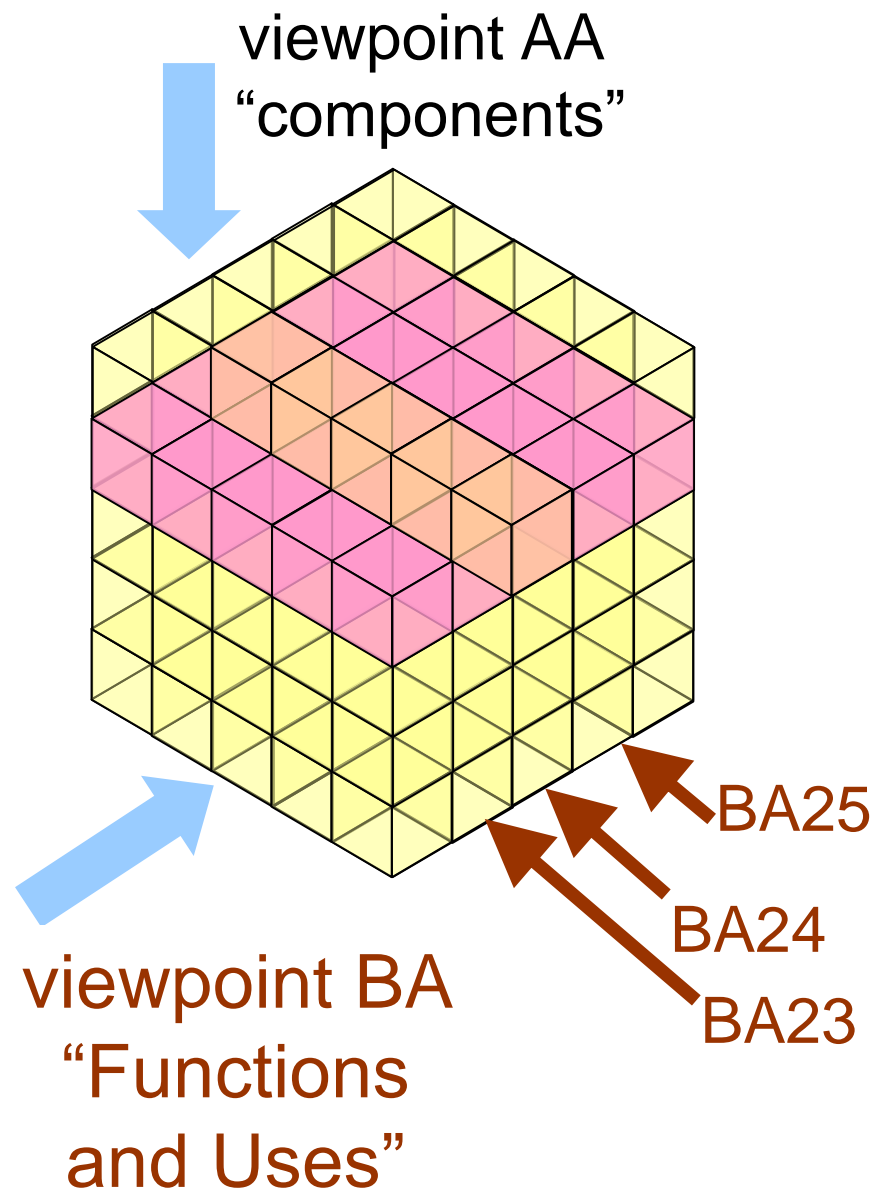
AA05



III. F-term

Example of a search target
*“Granular calcium oxide ceramics
with low heat expansion”*

4G031		Composition of oxide ceramics					
		C04B35/42-35/51					
Viewpoint		F-term					
AA	AA00	AA01	AA02	AA03	AA04	AA05	AA06
	COMPONENTS	Alkali-metal oxides	Alkali-earth-metal oxides	Magnesium oxides	Calcium oxides	Strontium oxides	Barium oxides
	AA11	AA12	AA13	AA14	AA15	AA16	
	Titanium oxides	Zirconium oxides	Vanadium oxides	Niobic oxides	Tantalum oxides	Chromium oxides	
	AA21	AA22	AA23	AA24	AA25	AA26	
Iron oxides	Cobalt oxides	Nickel oxides	Oxides from Group Ib to IIb	Copper oxides	Zinc oxides		
AA31	AA32	AA33	AA34	AA35	AA36		
Tin oxides	Lead oxides	Bismuth oxides	Antimony oxides	Plumbic oxides	Barium oxides		
BA	BA00	BA24					
	FUNCTIONS AND USES	Low heat expansion					
CA	CA00	CA01	CA02	CA03	CA04	CA05	
	STRUCTURES	Control of the crystal phase	Arrangement of crystals	Structures wherein different layers are composed of different compounds	Crystal grains of characteristic shapes and sizes	Granularity	



III. F-term

Example of a search target
“Granular calcium oxide ceramics with low heat expansion”

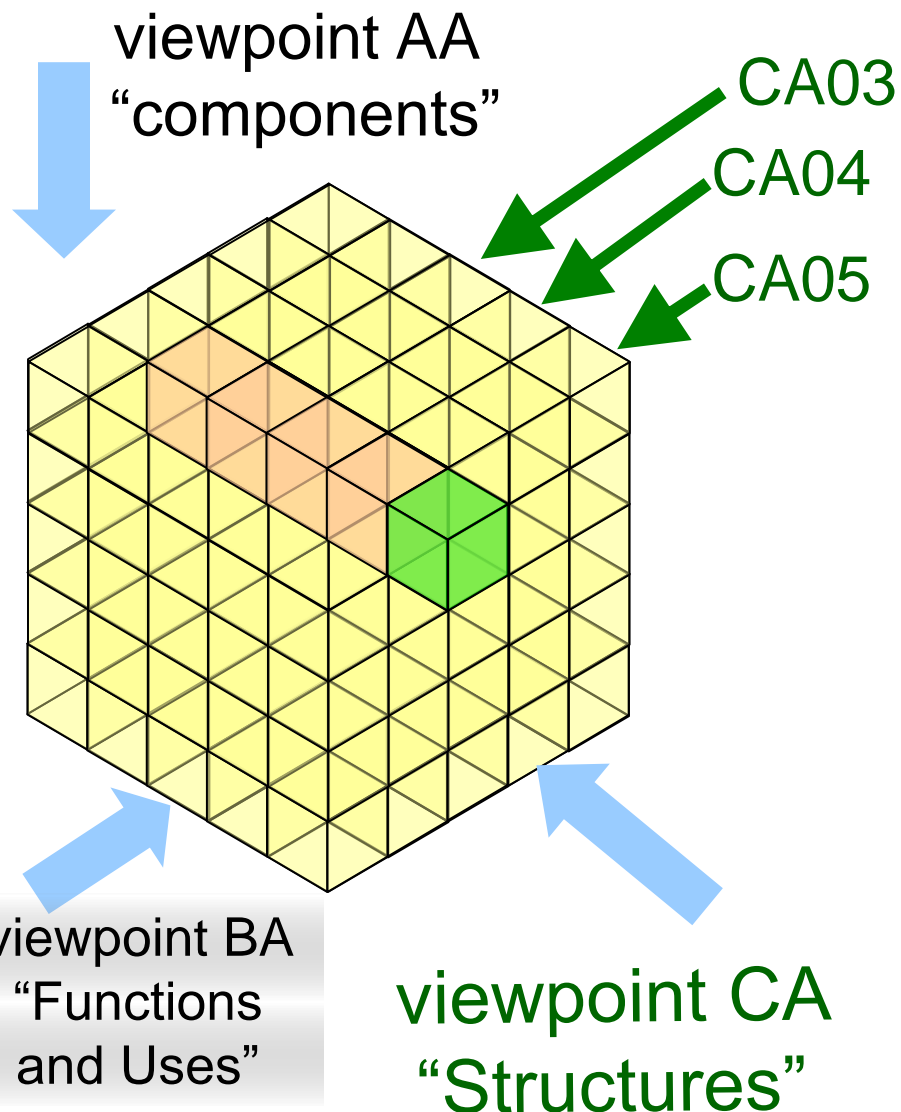
4G031

Composition of oxide ceramics

C04B35/42-35/51

Viewpoint	F-term					
AA	AA00	AA01	AA02	AA03	AA04	AA05
	COMPONENTS	Alkali-metal oxides	Alkali-earth-metal oxides	Magnesium oxides	Calcium oxides	Strontium oxides
						Barium oxides
	AA11	AA12	AA13	AA14	AA15	AA16
	Titanium oxides	Zirconium oxides	Vanadium oxides	Niobic oxides	Tantalum oxides	Chromium oxides
	AA21	AA22	AA23	AA24	AA25	AA26
BA	BA00	BA01	BA02	BA03	BA04	BA05
	FUNCTIONS AND USES	Electric and electrical functions and uses	Conductivity	Ion conductivity	Voltage non-linear resistance bodies	P-type conduction (PTC) semiconductors
						N-type conduction (NTC) semiconductors
	BA11	BA12	BA13	BA14	BA15	BA16
	Current-collection characteristics	Insulation characteristics	Magnetic-head support members	Optical functions and uses	Translucency	Electrical and optical characteristics
	BA21	BA22	BA23	BA24	BA25	BA26
CA	CA00	CA01			CA05	
	STRUCTURES	Control of crystal phase			Granularity	

CA05
Granularity



I. IPC

II. FI

III. F-term

IV. Reference tool

IV. Reference tool

A. IPC Home Page – 1/2

<http://www.wipo.int/classifications/ipc/en/>



<http://wipo.int/ipcpub/>

International Patent Classification (IPC)

The International Patent Classification (IPC), established by the Strasbourg Agreement 1971, provides for a hierarchical system of language independent symbols for the classification of patents and utility models according to the different areas of technology to which they pertain.

Browse and search the IPC

Click!

News
Next version of the IPC (IPC 2015.01) enters into force on January 1, 2015. Jul 1, 2014 |
IPC/WG/31 (May 12 to 16, 2014): document IPC/WG/31/2 (Report) and presentation available Jun 19, 2014

Cited from
<http://www.wipo.int/classifications/ipc/en/>

The image is a screenshot of the WIPO International Patent Classification (IPC) Home Page. It features a sidebar on the left with various options like "Version", "Current symbol", "Language", "View mode", and "Search". The main content area displays the "Scheme" of the IPC, listing sections A through H with their corresponding titles. A red circle highlights the "Browse and search the IPC" button in the sidebar, and a red arrow points from it to the "Click!" text. The page also includes a "News" section and a "Cited from" link.

Cited from <http://wipo.int/ipcpub/>

IV. Reference tool

A. IPC Home Page –2/2

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

Click!

Go to

Language
English
French
English/French

View mode
path
full
hierarchic

Show CPCFI
Deleted entries
Subclass indexes
Guidance Headings
Notes

Search
Terms
Cross-references

Assistance
STATS
Text categorization (IPCCAT)

Number of displayed entries
500

Last modified: 15.08.2014
IPCPUB v5.1

CPC version: 2014.02
FI version: 2013.11.01

SECTION A — HUMAN NECESSITIES
SECTION B — PERFORMING OPERATIONS; TRANSPORTING
SECTION C — CHEMISTRY; METALLURGY
SECTION D — TEXTILES; PAPER
SECTION E — FIXED CONSTRUCTIONS
SECTION F — MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING
SECTION G — PHYSICS
SECTION H — ELECTRICITY

Go down to hierarchical schedule of IPC from the top level to the bottom

Version
2014.01

Current symbol
F02B 37/12

Go to

Language
English
French
English/French

View mode
path
full
hierarchic

Show CPCFI
Deleted entries
Subclass indexes
Guidance Headings
Notes

Scheme RCL Compilation Catchwords Guide to the IPC

F02B 37/00 Engines characterised by provision of pumps driven at least for part of the time by exhaust (characterised by the introduction of liquid fuel into cylinders by use of auxiliary fluid F02B 13/06, characterised by after-charging F02B 29/06, characterised by passages conducting the charge from the pump to the engine inlet F02B 33/44)

F02B 37/07 with exhaust-driven pumps arranged in parallel [6]

F02B 37/13 with exhaust-driven pumps arranged in series [6]

F02B 37/02 Gas passages between engine outlet and pump drive, e.g. reservoirs

F02B 37/04 Engines with exhaust drive and other drive of pumps, e.g. with exhaust-driven pump and mechanically-driven second pump

F02B 37/10 at least one pump being alternately driven by exhaust and other drive [3]

F02B 37/11 driven by other drive at starting only [6]

F02B 37/12 Control of the pumps [3]

F02B 37/14 of the alternation between exhaust drive and other drive of a pump, e.g. dependent on speed [3]

F02B 37/16 by bypassing charging air [6]

F02B 37/18 by bypassing exhaust [6]

F02B 37/20 by increasing exhaust energy, e.g. using combustion chambers [6]

F02B 37/22 by varying the cross-section of exhaust passages or air passages [6]

F02B 37/24 by using pumps or turbines with adjustable guide vanes [6]

F02B 39/00 Component parts, details, or accessories relating to driven charging or scavenging pumps, not provided for in groups F02B 33/00-F02B 37/00

F02B 39/02 Drives of pumps (exhaust drives or combined exhaust and other drives F02B 37/00); Varying pump drive gear ratio (control

Version
2014.01

Current symbol
F

Go to

Language
English
French
English/French

View mode
path
full
hierarchic

Show CPCFI
Deleted entries
Subclass indexes
Guidance Headings

Scheme RCL Compilation Catchwords Guide to the IPC

F01 MACHINES OR ENGINES IN GENERAL; ENGINE PLANTS IN GENERAL; STEAM ENGINES

F02 COMBUSTION ENGINES; HOT-GAS OR COMBUSTION-PRODUCT ENGINE PLANTS

F03 MACHINES OR ENGINES FOR LIQUIDS; WIND, SPRING, OR WEIGHT MOTORS; PRODUCING MECHANICAL POWER OR A REACTIVE PROPULSIVE THRUST, NOT OTHERWISE PROVIDED FOR

F04 POSITIVE-DISPLACEMENT MACHINES FOR LIQUIDS; PUMPS FOR LIQUIDS OR ELASTIC FLUIDS

Note(s)
Combinations of positive-displacement and non-positive-displacement pumps are classified in subclass F04B as a general subclass for pumps, and in subclasses F04C, F04D in respect of matter specific to those subclasses.

ENGINEERING IN GENERAL

F15 FLUID-PRESSURE ACTUATORS; HYDRAULICS OR PNEUMATICS IN GENERAL

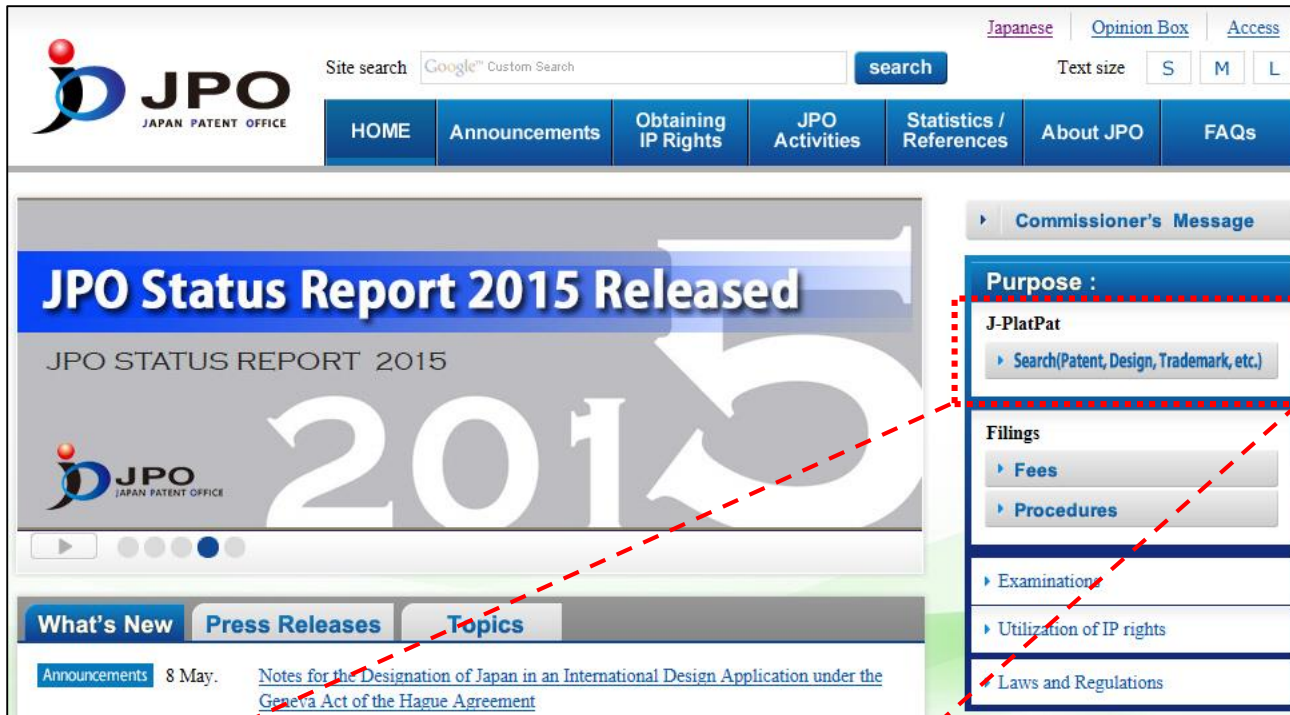
F16 ENGINEERING ELEMENTS OR UNITS; GENERAL MEASURES FOR PRODUCING AND MAINTAINING EFFECTIVE FUNCTIONING OF MACHINES OR INSTALLATIONS; THERMAL INSULATION IN GENERAL

F17 STORING OR DISTRIBUTING GASES OR LIQUIDS

IV. Reference tool

B. Patent Map Guidance (PMGS) – 1/14

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



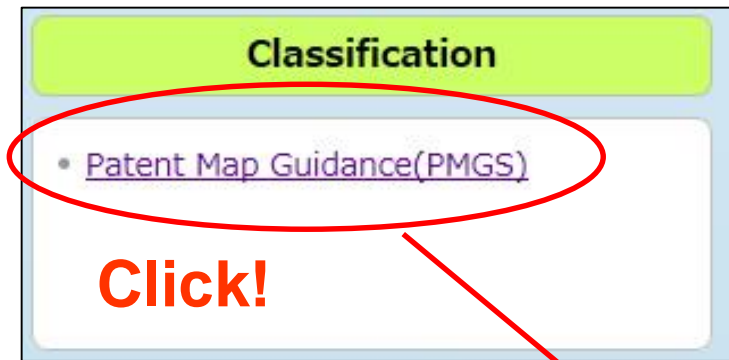
J-PlatPat

▶ [Search\(Patent, Design, Trademark, etc.\)](#)

Click the J-PlatPat banner

B. Patent Map Guidance (PMGS) – 2/14

Top menu of the J-PlatPat



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](#))

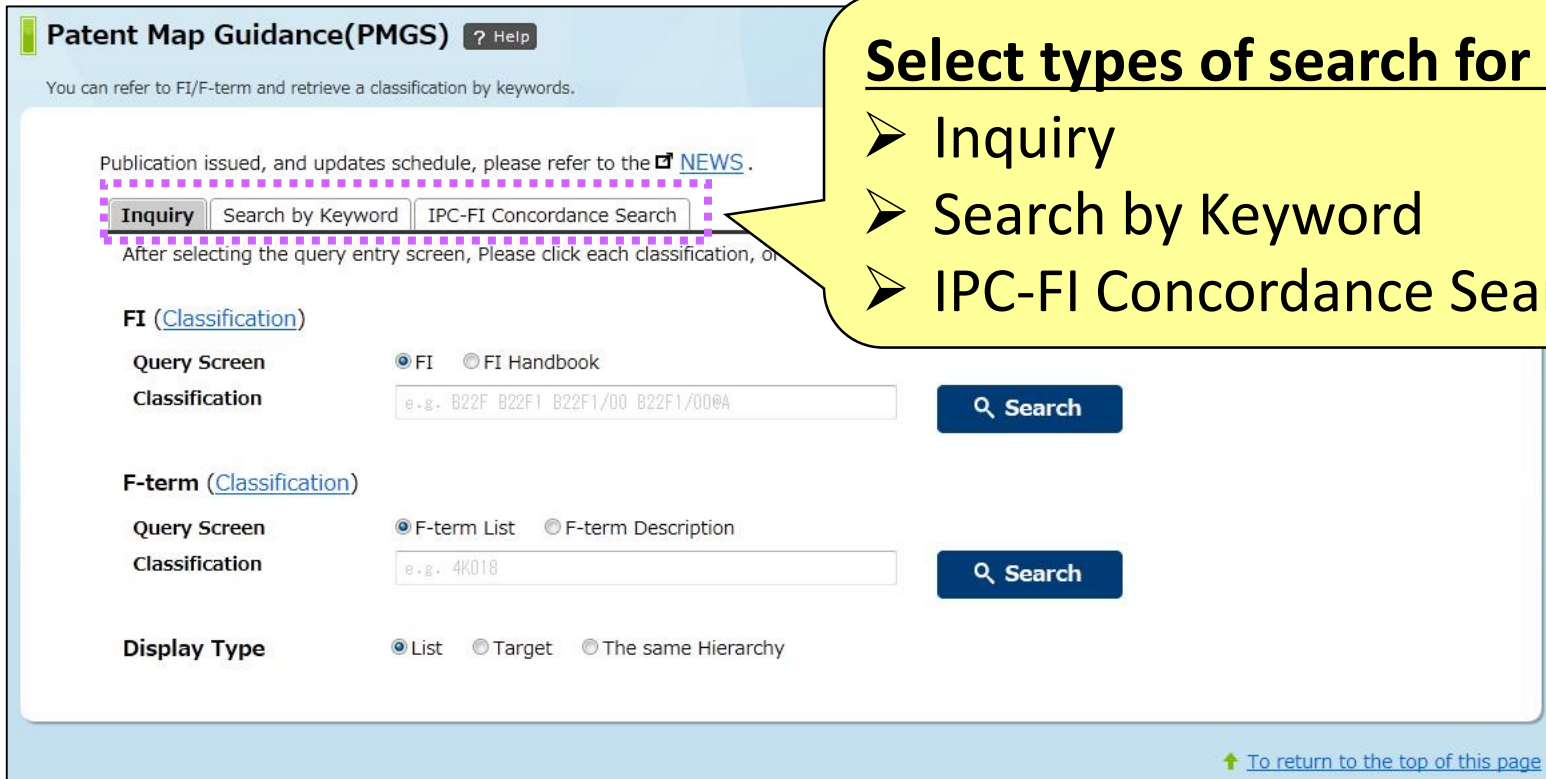
Query Screen ☒ F-term List ☐ F-term Description

Classification

Display Type ☒ List ☐ Target ☐ The same Hierarchy

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

B. Patent Map Guidance (PMGS) – 3/14



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

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](#)

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

B. Patent Map Guidance (PMGS) – 4/14

Inquiry

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

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

FI search

F-term search

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

Go down to the 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

B. Patent Map Guidance (PMGS) – 6/14

FI(List Indication)

This screen shows all FIs contained in the main group "G06F3/00". (HB : FI Handbook)

• Display Type

☒ List ☐ Target ☐ The same Hierarchy

FI	Explanation	Reference, etc.
• 3/00	Input arrangements for transferring data to be processed into a form capable of being handled by the computer; Output arrangements for transferring data from processing unit to output unit, e.g. interface arrangements [4]	5B041 HB
	A Related to connection, addition, cutoff, selection or switching the devices (W or Y takes precedence)	5B041 HB
	B . Active inserting or removal (inserting or withdrawing live wires) (Connections or disconnection without shutting off the power supply)	5B041 HB
	C . Non-contact connecting circuits (DC insulated connection)	5B041 HB
	D . . Optical coupling	5B041 HB
	E Optical transfer (including transfers with optical fibers) (including optical buses)	5B041 HB
	F Circuits for connecting or shutting off the bus lines (including circuit connection of abnormal buses) e.g. bus width conversion	5B041 HB
	G Bus driving circuits in general	5B041 HB
	H . Transmitters or receivers (including tristate buffers or latches)	5B041 HB

From FI, corresponding theme code can be known.

IV. Reference tool

B. Patent Map Guidance (PMGS) – 7/14

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 (Classification)

Click! ☒ FI ☐ FI Handbook

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

B. Patent Map Guidance (PMGS) – 8/14

Jump to the definition of each term and other information of a specific theme by selecting the “F-term description” button and entering its theme code, e.g., “5B020”

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

Descriptions of F-terms	
This screen displays a description of the F-term theme code “5B020”、about the point of view“AA”.	
Term	Explanation
AA00	Input data This viewpoint covers the subject matter for data inputted with input devices. When input data are unknown, classification is not made under this viewpoint.
AA01	. Numbers
AA02	. Alphanumeric characters
AA03	. Kana This place covers the subject matter for kana input of word processors or the like.
AA04	. . Japanese syllabaries Example: A, I, U, E, O . . . in Kana

B. Patent Map Guidance (PMGS) – 9/14

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

Search Range(Classification)

Display Type

- ☒ List
- ☐ Target
- ☐ The same Hierarchy

Click "Search"

Keyword

Query Screen

- FI
- F-term

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

B. Patent Map Guidance (PMGS) – 10/14

The search results list is displayed.

- Query Screen = FI
- Keyword = toy

Click the FI “[A41D11/00@K](#)”.

Result	
Hit count is 81.	
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”

B. Patent Map Guidance (PMGS) – 11/14

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”

B. Patent Map Guidance (PMGS) – 12/14

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"

B. Patent Map Guidance (PMGS) – 13/14

Concordance List “G06T1/00”

Concordance List [IPC→FI]

IPC Code:

Display Type: ☒ List ☐ Target ☐ The same Hierarchy

Result

Hit count is 103.

IPC

G06T1/00

G06T1/00

G06T1/00

G06T1/00

G06T1/00

G06T1/00

G06T1/00

G06T1/00

FI

[G06T1/00](#)

[G06T1/00@A](#)

[G06T1/00@B](#)

[G06T1/00@C](#)

[G06T1/00@Z](#)

[G06T1/00,200](#)

[G06T1/00,200@A](#)

[G06T1/00,200@B](#)

IV. Reference tool

B. Patent Map Guidance (PMGS) – 14/14

Details of JP publication

Front page of the publication

This means “Theme code”

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F I

G06K 17/00 L
G07G 1/12 3 2 1 Q
G08B 13/22
H04B 5/02
G06K 17/00 F

テーマコード

3E142
5B058
5C084
5K012

This means “F-term”

F-term codes

F ターム

3E142 EA13 GA04 JA02
5B058 CA17 CA23 KA31 YA01 YA20
5C084 AA03 AA09 AA13 BB31 CC34 DD07 FF02 GG07 GG09 GG43
GG52
5K012 AB05 BA03

Theme codes

Last page of the publication