

Outline of Japanese Patent Classification Systems

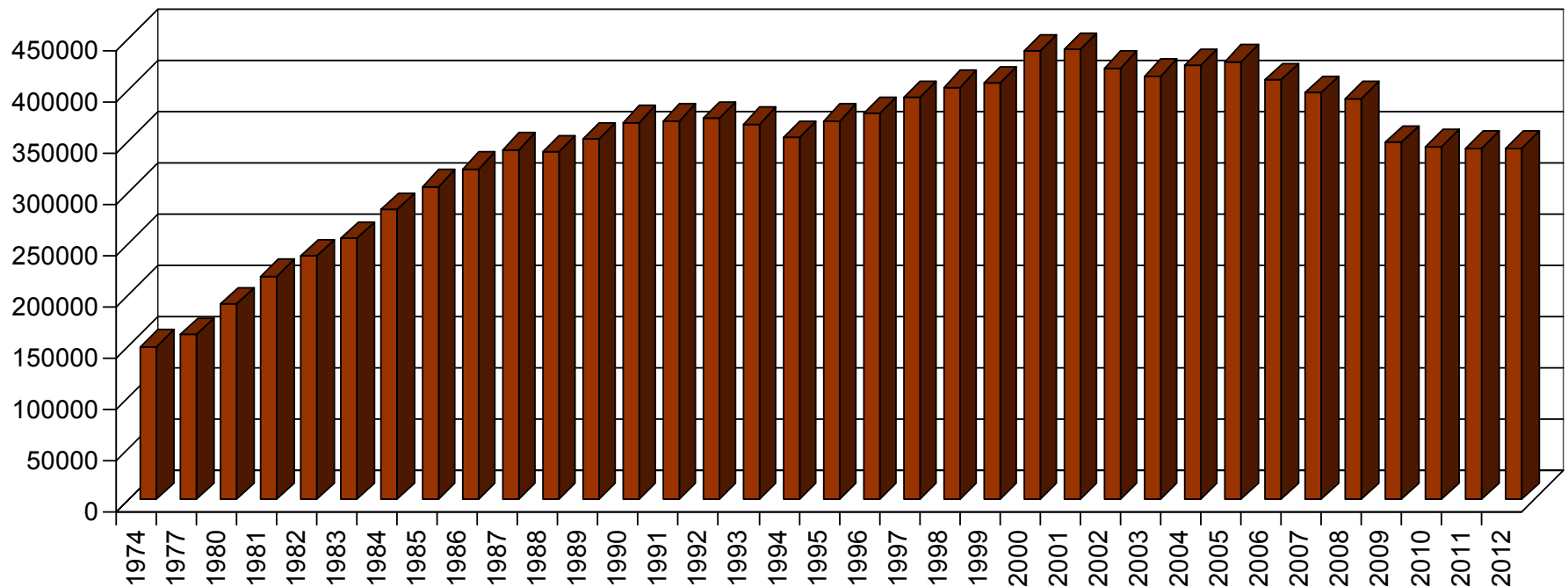
December 2013

JAPAN PATENT OFFICE

- Why FI/F-term?
- Overview of patent classification systems
- What is FI?
- What is F-term?
- Revision of FI/F-term
- Finding FI/F-term

- ❑ Annually about 350,000 patent applications in Japan (not including PCT applications)
- ❑ Totally about 20,000,000 documents
- ❑ About 75% of domestic applications have **no** patent families

- ❑ Huge amount of prior art!



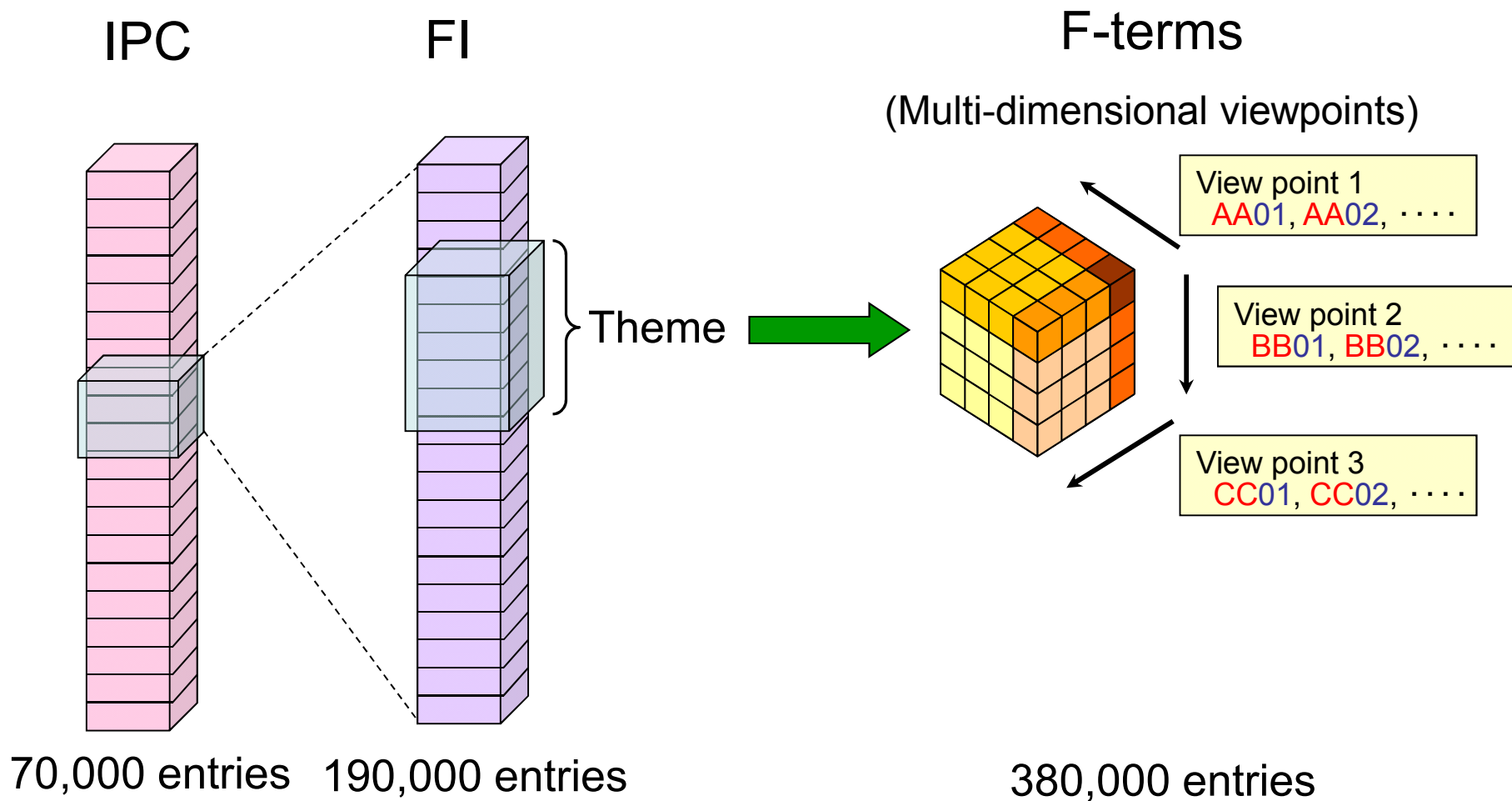
- 1977: Strasbourg Agreement entered in force in Japan

- 1978: IPC officially introduced at JPO
 - growing numbers of patent documents
 - JPO examiners subdivide files (using alphabetic letters A - Z)
 - start of "File Index" (FI) classification

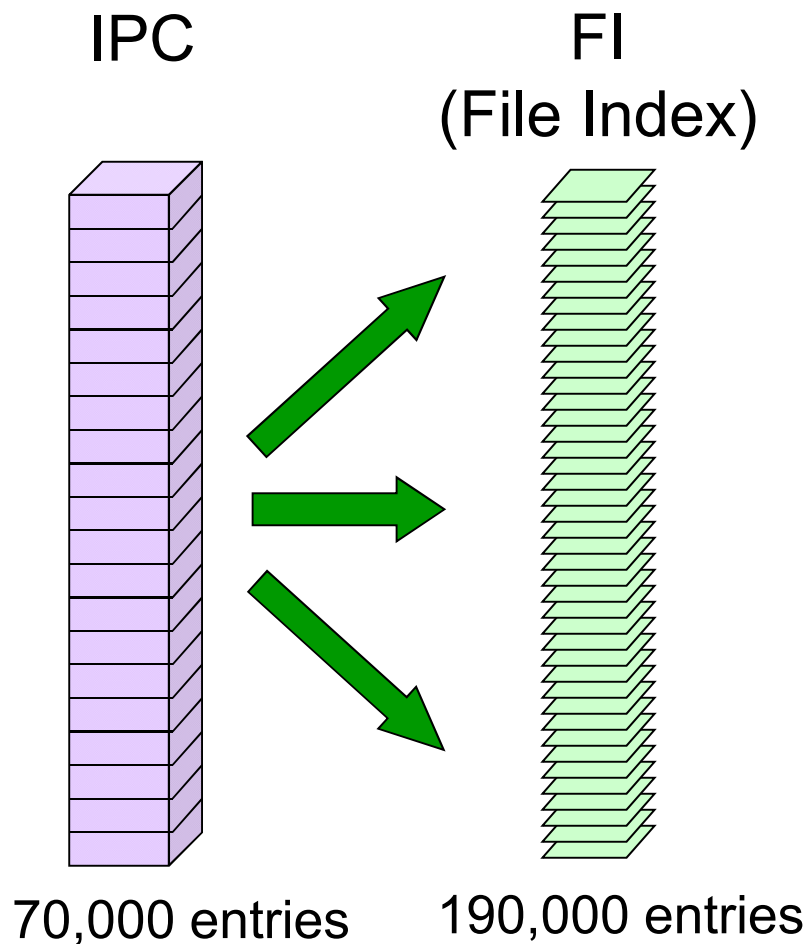
- 1984: "paperless office" project
 - computerised search system
 - new search indexes: File Forming Terms (F-terms)
 - to improve search efficiency

- Why FI/F-term?
- **Overview of patent classification systems**
- What is FI?
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System	Governance	Number of Entries	Documentation coverage
IPC	IPC/CE (Committee of Experts); supervised by WIPO	70K	- almost all patent docs published worldwide
FI/F-term	JPO	190K/ 380K	- JP docs
CPC	EPO/USPTO	250K (main trunk / 2000 series = 160K/ 80K)	- the subset of "min-PCT" documentation in one of the three EPO languages - patent docs classified by CPCNO



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[Features]

- Subdivision of IPC
- Consists of IPC groups & IPC-based subdivisions
- Largely based on the latest version of IPC, but some are based on old version, e.g. IPC4
- Uses a dot hierarchy like IPC
- Covers all the fields of IPC(A section to H section)
- Similar to CPC main trunk (160,000 entries)
- Biannual revision
- Backlog reclassification

- ❑ IPC symbol
ex) G06F 9/00
- ❑ IPC symbol + extension symbol
ex) G06F 9/00, 320
- ❑ IPC symbol + extension symbol + file discrimination symbol
ex) G06F 9/00, 320 A
- ❑ IPC symbol + file discrimination symbol
ex) B60G 17/015 A

9/00 Arrangements for programme control, e.g. control unit (programme control for peripheral devices G 06 F 13/10; in regulating or control systems G 05 B)
101 . Consoles
310 . . Operation control
320 . . . Related to display control
A Operations in general
B Inputting guidance or automatic operation
C Continuous operating status display
Z Others

example of FI subdivisions for G06F9/00

(source: www.ipdl.inpit.go.jp/homepg_e.ipdl)

- ❑ Further subdivisions of IPC subgroups
- ❑ Indication with 3-digit numbers
- ❑ Hierarchical dots followed by IPC symbols

Example:

A01D HARVESTING; MOWING

34/ 00 Mowers; Mowing apparatus of harvest

34/ 24 ···Lifting devices for the cutter-bar

101 ····Co-operating of the machine

103 ····Actuating by sensing fields or
stumps

104 ····Mechanism for preventing
hunting

- ❑ Further subdivisions under IPC subgroups or extension symbols
- ❑ Indication with a letter from 'A' to 'Z'
- ❑ Creation of symbol 'Z' (others) is necessary
- ❑ No dot means 1 dot below IPC subgroups et al.
- ❑ Dot number means a hierarchical level within file discrimination symbols

Example

A01C PLANTING; SOWING; FERTILISING

1/ 00 Apparatus, or methods of use...

A Preparation for adjusting growth

B ·Chemical treatment

Z Others

FI - section to groups

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

IPC:70,000

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 A	301 B	Z	A	B	C	Z	A	B	Z

FI:190,000

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- Limits of subdivision of IPC (FI)

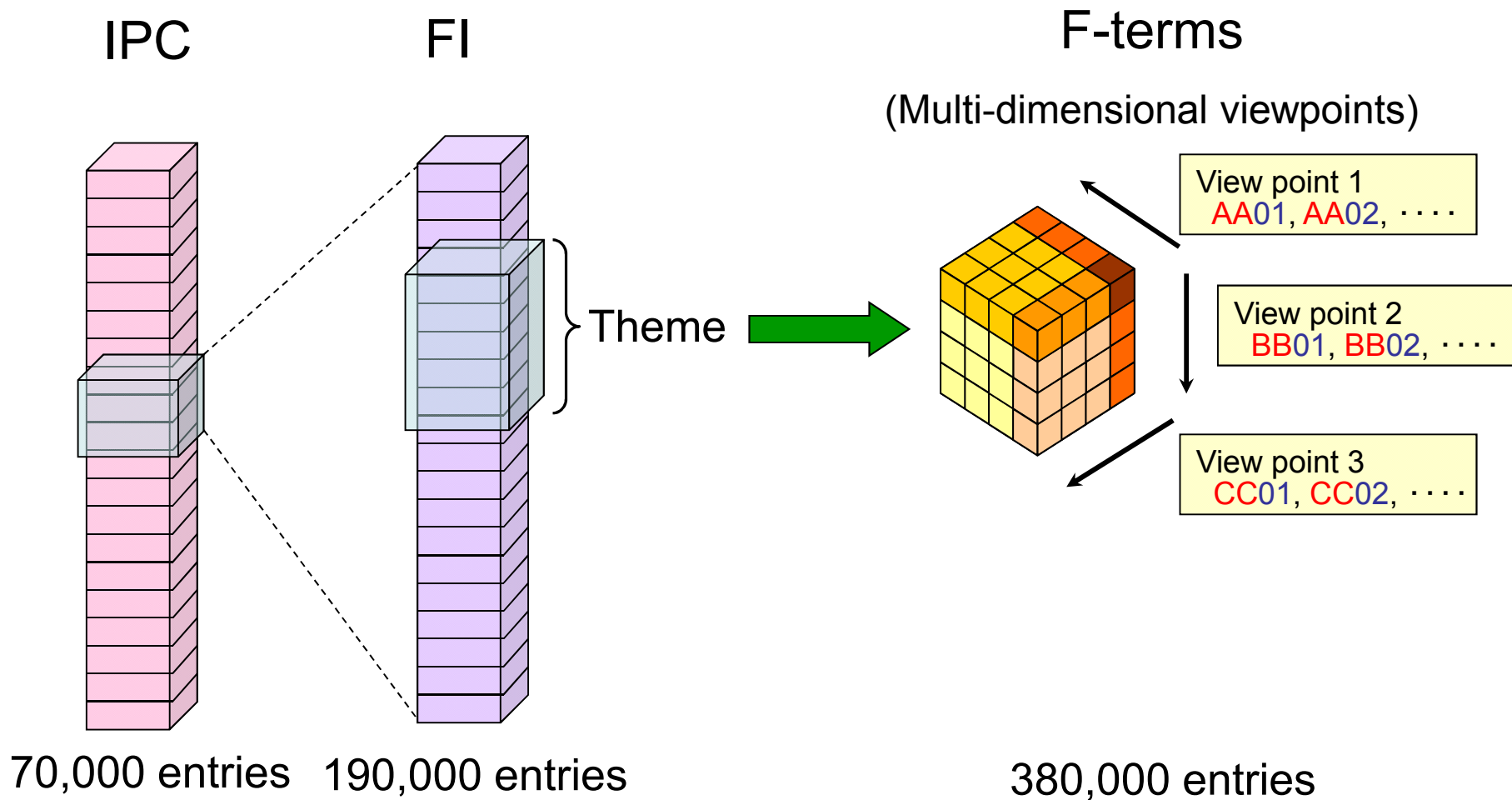
--> FI is subdivided from only the viewpoint of IPC

- Increasing number of patent documents

- Development of complex or combined technologies

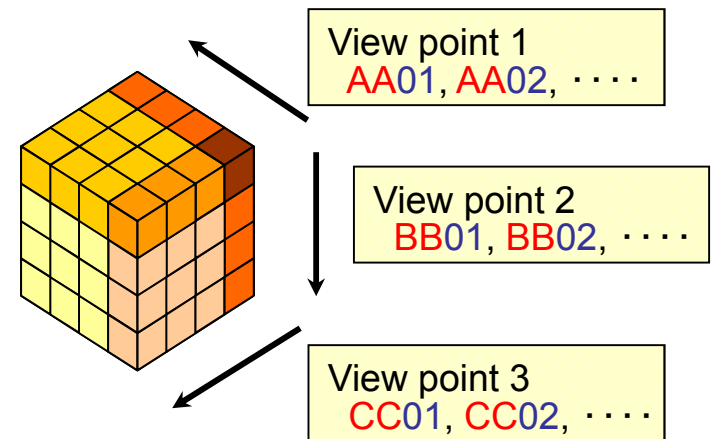
Need for efficient search

Invention of F-term as computer-based **multi aspect** search indexes



- ❑ Indications comprised of **2 letters selected from A to Z (called 'Viewpoint')** and **2 numerals selected from 00 to 99**
- ❑ Around 380,000 entries (total of all themes)
- ❑ Similar to CPC 2000 series (80,000 entries)
- ❑ Revised annually
- ❑ Backlog reclassification

F-terms (Multi-dimensional viewpoints)



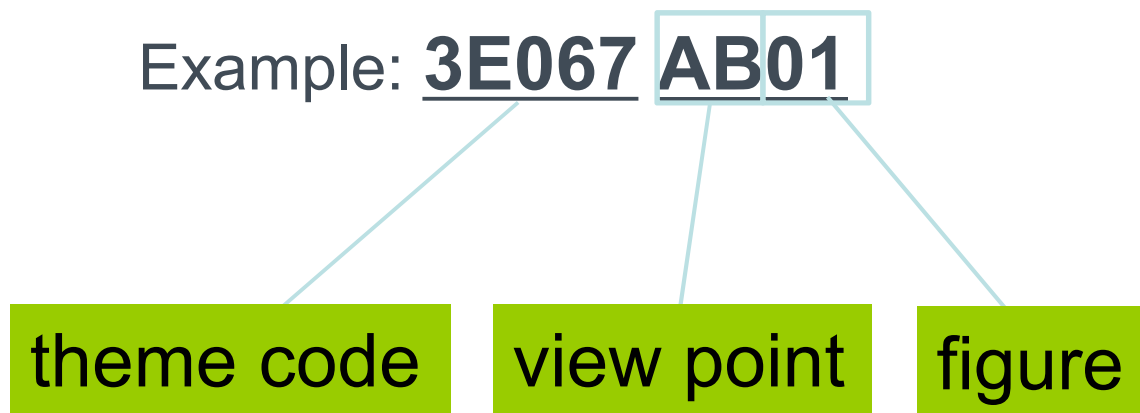
- A certain technical area
(Total **2,600 Themes**)
- Around 1,800 themes out of 2,600 have F-terms
- A theme has a certain **FI coverage**
- A theme consists of a **theme code** and a **subject of the theme** corresponding the **FI coverage**
- A **theme code** is expressed as 5-digits consisting of alphanumeric characters

Example:

Theme code: 3E003

FI coverage: B65B 5/00-5/12

Subject of the theme: Container packaging and wrapping operation



- ❑ **theme code:** represents a technical field
- ❑ **view point:** analyses the theme (material, purpose, operation, manufacturing, etc.)
- ❑ **figure:** subdivides the viewpoint

Example: 3E067 AB01 .A

theme code

view point

figure

additional code

- ❑ **theme code:** represents a technical field
- ❑ **view point:** analyses the theme (material, purpose, operation, manufacturing, etc.)
- ❑ **figure:** subdivides the viewpoint
- ❑ **additional code:** subdivides each term code

Example: 3E067 AB01

theme code

view point

figure

2 = Residual technology (2B, 2C, 2D,...)

3 = Mechanics (3B, 3C, 3D, 3E,...)

4 = Chemistry (4B, 4C, 4D, 4E, 4F...)

5 = Electricity (5B, 5C, 5D, 5E,...)

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							
A	B	C	Z	101	102		A	B	Z		A	B	301 A	301 B	Z	A	B	C	Z	A	B	C	Z

FI

Theme 1 (F-term theme)									Theme 2 (FI theme)					Theme 3 (F-term theme)				
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Theme

1/00A	AA	AA	AA	AA	AA
—	00	01	02	03	04
1/08	BB	BB	BB		
	00	01	02		
	CC	CC	CC	CC	
	00	01	02	03	
	DD	DD	DD	DD	
	00	01	02	03	

2/04A	AA	AA	AA	AA	
	00	01	02	03	
2/04B	BB	BB	BB		
	00	01	02		
2/04C	CC	CC	CC	CC	CC
	00	01	02	03	04
—	—	—	—		

F-term

Example of F-term list

Theme Code

4G031

Composition of oxide ceramics

Subject of theme

C04B35/42-35/51

FI Coverage

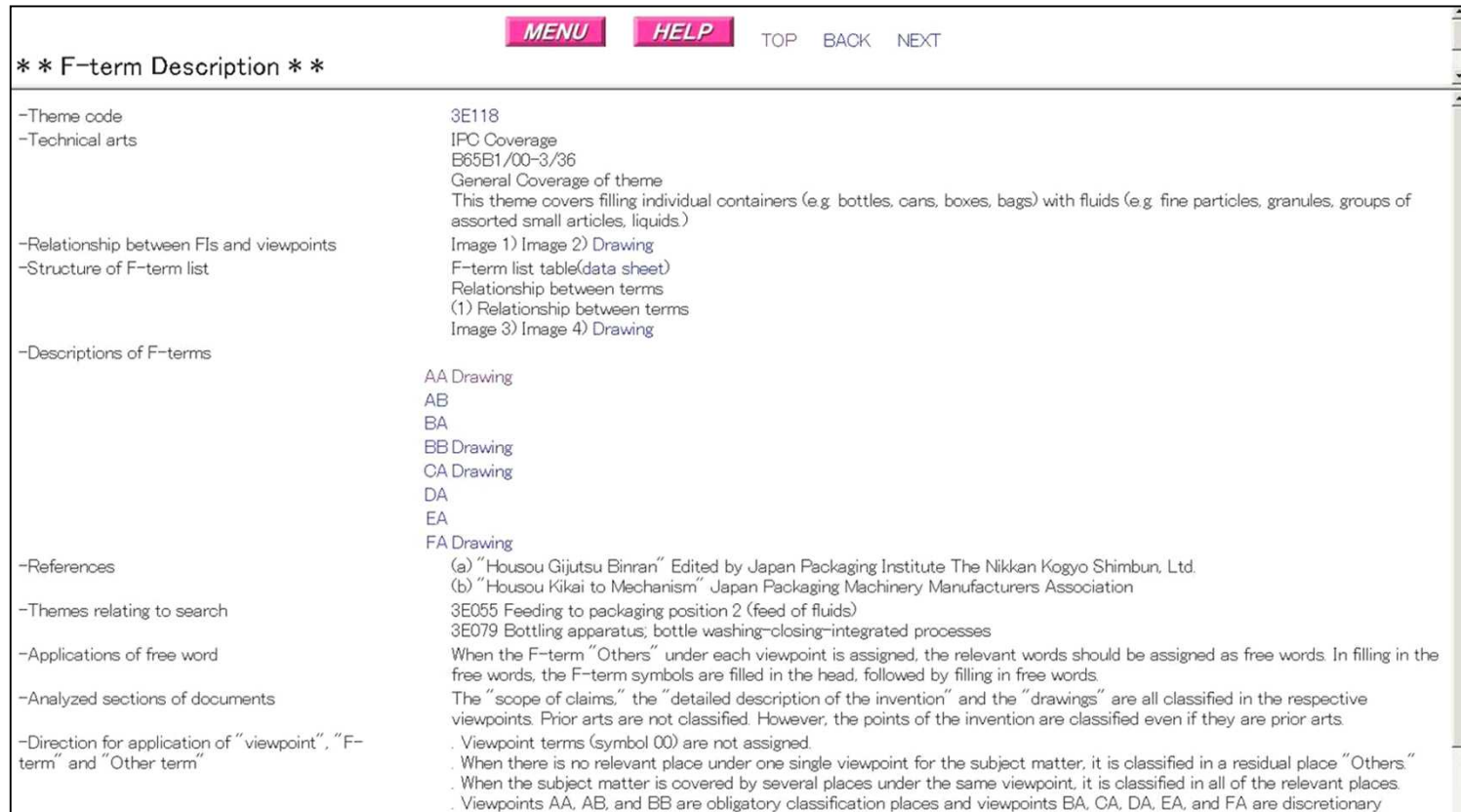
View point

AA

BA

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	. Phosphorus oxides	. Antimony oxides	. Bismuth oxides	. Borides
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
	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

- ❑ F-term descriptions partly available in English since 2005
- ❑ currently approx. 700 themes covered



The screenshot shows a web browser window with a navigation bar at the top containing buttons for 'MENU', 'HELP', 'TOP', 'BACK', and 'NEXT'. The main content area is titled '** F-term Description **' and lists various categories of information related to the F-term 3E118. The categories and their corresponding descriptions are as follows:

Category	Description
-Theme code	3E118
-Technical arts	IPC Coverage E65B1/00-3/36 General Coverage of theme This theme covers filling individual containers (e.g. bottles, cans, boxes, bags) with fluids (e.g. fine particles, granules, groups of assorted small articles, liquids.)
-Relationship between FIs and viewpoints	Image 1) Image 2) Drawing
-Structure of F-term list	F-term list table(data sheet) Relationship between terms (1) Relationship between terms Image 3) Image 4) Drawing
-Descriptions of F-terms	AA Drawing AB BA BB Drawing CA Drawing DA EA FA Drawing
-References	(a) "Housou Gijutsu Binran" Edited by Japan Packaging Institute The Nikkan Kogyo Shimbun, Ltd. (b) "Housou Kikai to Mechanism" Japan Packaging Machinery Manufacturers Association
-Themes relating to search	3E055 Feeding to packaging position 2 (feed of fluids) 3E079 Bottling apparatus; bottle washing-closing-integrated processes
-Applications of free word	When the F-term "Others" under each viewpoint is assigned, the relevant words should be assigned as free words. In filling in the free words, the F-term symbols are filled in the head, followed by filling in free words.
-Analyzed sections of documents	The "scope of claims," the "detailed description of the invention" and the "drawings" are all classified in the respective viewpoints. Prior arts are not classified. However, the points of the invention are classified even if they are prior arts.
-Direction for application of "viewpoint", "F-term" and "Other term"	. Viewpoint terms (symbol 00) are not assigned. . When there is no relevant place under one single viewpoint for the subject matter, it is classified in a residual place "Others." . When the subject matter is covered by several places under the same viewpoint, it is classified in all of the relevant places. . Viewpoints AA, AB, and BB are obligatory classification places and viewpoints BA, CA, DA, EA, and FA are discretionary

example of F-term description in English

(source: http://www5.ipdl.inpit.go.jp/pmgs1/pmgs1/pmgs_E)

Ex. Search for “granular calcium oxide ceramics with low heat expansion”

4G031		Composition of oxide ceramics									
		C04B35/42-35/51									
AA	AA00 COMPONENTS	AA01 Alkali-metal oxides	AA02 Alkali-earth-metal oxides	AA03 Magnesium oxides	AA04 Calcium oxides	AA05 Strontium oxides	AA06 Barium oxides	AA07 Rare-earth-element oxides and actinium-based oxides	AA08 Yttrium oxide	AA09 Lanthanum oxide	AA10 Oxides from group IVa to VIIa
		AA11 Titanium oxides	AA12 Zirconium oxides	AA13 Hafnium oxides	AA14 Niobic oxides	AA15 Tantalum oxides	AA16 Chromium oxides	AA17 Molybdenum oxides	AA18 Tungsten oxides	AA19 Manganese oxides	AA20 Oxides from Group VIII
		AA21 Iron oxides	AA22 Cobalt oxides	AA23 Nickel oxides	AA24 Oxides from Group Ib to IIb	AA25 Copper oxides	AA26 Zinc oxides	AA27 Oxides from Group IIIb to VIb	AA28 Boron oxides	AA29 Aluminum oxides	AA30 Silicon oxides
		AA31 Tin oxides	AA32 Lead oxides	AA33 Phosphorus oxides	AA34 Antimony oxides	AA35 Bismuth oxides	AA36 Borides	AA37 Carbides	AA38 Nitrides	AA39 Metals and alloys	AA40 Others
BA	BA00 FUNCTIONS AND USES	BA01 Electric and electrical functions and uses	BA02 Conductivity	BA03 Ion conductivity	BA04 Voltage non-linear resistance bodies	BA05 P-type conduction (PTC) semiconductors	BA06 N-type conduction (NTC) semiconductors	BA07 Gas sensors	BA08 Humidity sensors	BA09 Dielectric characteristics	BA10 Piezoelectric characteristics
		BA11 Current-carrying characteristics	BA12 Insulation characteristics	BA13 Magnetic properties	BA14 Optical functions and uses	BA15 Transparency	BA16 Electrical and chemical characteristics	BA17 Infrared radiation characteristics	BA18 Mechanical functions and uses	BA19 Hard and abrasion-proof	BA20 High degree of strength and high degree of pliability
		BA21 Thermal functions and uses	BA22 Heat insulation	BA23 Heat- and shock-resistance characteristics	BA24 Low heat expansion	BA25 Fireproof substances	BA26 Biological and chemical functions and uses	BA27 Catalysts and carriers	BA28 Bio-compatibility	BA29 Functions and uses relating to atomic energy	
CA	CA00 STRUCTURES	CA01 Control of the crystal phase	CA02 Change of crystal phase	CA03 Structures with pores of different sizes	CA04 Crystal grains of different sizes	CA05 Granularity	CA06 Porous structures	CA07 External shapes	CA08 Thin films and coatings	CA09 Porous bodies	CA10 Honeycomb bodies
GA	GA00 MANUFACTURING METHODS	GA01 Manufacture and processing of raw material powders	GA02 Clays with a characteristic structure	GA03 Specific rates of granularization of the processed powder	GA04 Use of joining agents, formation-assisting agents, dispersion agents, and other agents	GA05 Clay adjustment methods	GA06 Forming methods	GA07 Sintering methods	GA08 Sintering atmospheres	GA09 Oxidizing atmospheres	GA10 Reducing atmospheres
		GA11	GA12	GA13	GA14	GA15	GA16	GA17	GA18	GA19	

Viewpoint AA Components

Viewpoint BA Functions and Uses

Viewpoint CA Structures

Ex. Search for “granular calcium oxide ceramics with low heat expansion”

4G031

Composition of oxide ceramics
C04B35/42-35/51

AA	AA00	AA01	AA02	AA03	AA04	AA05	AA06	AA07	AA08	AA09	AA10
	COMPONENTS	Alkali-metal oxides	Alkali-earth-metal oxides	Magnesium oxides	Calcium oxides	Strontium oxides	Barium oxides	Rare-earth element oxides and actinium-based oxides	Yttrium oxides	Lanthanum oxide	Oxides from group IVa to VIIa
BA	BA00	BA01	BA02	BA03	BA04	BA05	BA06	BA07	BA08	BA09	BA10
	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				Electric characteristics
	BA11	BA12	BA13	BA14	BA15	BA16					degree of strength and stability
	BA17	BA18	BA19	BA20	BA21	BA22					
	BA23	BA24	BA25	BA26							
	BA27	BA28	BA29	BA30							
	BA31	BA32	BA33	BA34							
	BA35	BA36	BA37	BA38							
	BA39	BA40	BA41	BA42							
	BA43	BA44	BA45	BA46							
CA	CA00	CA01	CA02	CA03	CA04	CA05	CA06	CA07	CA08	CA09	CA10
	STRUCTURES	Control of the structure	Arrangement of components	Structures	Crystal grains of the structure	Granularity		External shapes and structures	Thin films and sheets	Porous bodies	Honeycomb bodies
GA	GA00	GA01	GA02	GA03	GA04	GA05	GA06	GA07	GA08	GA09	GA10
	MANUFACTURING METHODS						Adjustment	Forming methods	Sintering methods	Sintering atmospheres	Oxidizing atmospheres

AA components

AA04 -- Calcium oxides

4G031 AA04

Ex. Search for **“granular calcium oxide ceramics with low heat expansion”**

4G031		Composition of oxide ceramics									
C04B35/42-35/51											
AA00		AA01	AA02	AA03	AA04	AA05	AA06	AA07	AA08	AA09	AA10
AA	COMPONENTS	Alkali-metal oxides	Alkali-earth-metal oxides	Magnesium oxides	Calcium oxides	Strontium oxides	Barium oxides	Rare-earth-element oxides and actinium-based oxides	Yttrium oxides	Lanthanum oxide	Oxides from group IVa to VIIa
		AA11	AA12	AA13	AA14	AA15	AA16	AA17	AA18	AA19	AA20
		Titanium oxides	Zirconium oxides	Vanadium oxides	Niobic oxides	Tantalum oxides	Chromium oxides	Molybdenum oxides	Tungsten oxides	Manganese oxides	Oxides from Group VIII
		AA21	AA22	AA23	AA24	AA25	AA26	AA27	AA28	AA29	AA30
		Iron oxides	Cobalt oxides	Nickel oxides	Oxides from Group Ib to IIb	Copper oxides	Zinc oxides	Oxides from Group IIIa to IIIb	Aluminum oxides	Silicon oxides	
	AA31	AA32	AA33	AA34	AA35	AA36					
	Tin oxides	Lead oxides	Phosphorus oxides	Antimony oxides	Bismuth oxides	Borides					
BA	FUNCTIONS AND USES	BA01	BA02	BA03	BA04	BA05	BA06				
		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-carrying	Magnetic	Electrical and electronic	High-temperature	Electrical and electronic	High-temperature				
		BA21	BA22	BA23	BA24	BA25	BA26				
	Thermal functions and uses	Heat insulation	Heat- and shock-resistance characteristics	Low heat expansion	Fireproof substances	Biological and chemical functions and uses					
CA	STRUCTURES	CA01	CA02	CA03	CA04	CA05					
		Control of the structure	Arrangement of particles	Structures	Crystal grains of different sizes	Granularity	Internal shapes and structures	Thin films and sheets	Porous bodies	Honeycomb bodies	
GA	MANUFACTURING METHODS	GA01	GA02	GA03	GA04	GA05	GA06	GA07	GA08	GA09	GA10
		Adjustment	Preparation methods	Sintering	Sintering	Sintering	Sintering	Sintering atmospheres	Oxidizing atmospheres	Reducing atmospheres	

4G031	
AA04 and BA24	

AA components

BA Functions and Uses

BA24 Low heat expansion

Ex. Search for “granular calcium oxide ceramics with low heat expansion”

4G031		Composition of oxide ceramics										
		C04B35/42-35/51										
AA	COMPONENTS	AA01	AA02	AA03	AA04	AA05	AA06	AA07	AA08	AA09	AA10	
		Alkali-metal oxides	Alkali-earth-metal oxides	Magnesium oxides	Calcium oxides	Strontium oxides	Barium oxides	Rare earth element oxides and actinium-based oxides	Titanium oxides	Zirconium oxides	Oxides from group IVa to VIIa	
		AA11	AA12	AA13	AA14	AA15	AA16	AA17	AA18	AA19	AA20	
		Titanium oxides	Zirconium oxides	Vanadium oxides	Niobic oxides	Tantalum oxides	Chromium oxides	Molybdenum oxides	Tungsten oxides	Manganese oxides	Oxides from Group VIII	
		AA21	AA22	AA23	AA24	AA25	AA26	AA27	AA28	AA29	AA30	
		Iron oxides	Cobalt oxides	Nickel oxides	Oxides from Group IX	Copper oxides	Zinc oxides	Oxides from Group I0	Aluminum oxides	Silicon oxides	Oxides from Group I1	
		AA31	AA32	AA33	AA34	AA35	AA36	AA37	AA38	AA39	AA40	
		Tin oxides	Lead oxides	Phosphorus oxides	Antimony oxides	Bismuth oxides	Borides					
BA	FUNCTIONS AND USES	BA01	BA02	BA03	BA04	BA05	BA06	BA07	BA08	BA09	BA10	
		Electric and electrical functions and uses	Conductivity	Ion conductivity	Voltage non-linear resistance bodies	P-type conduction (PTC) semiconductors	N-type conduction (NTC) semiconductors	Electrical and optical characteristics	Optical functions and uses	Translucency	Current-collection characteristics	Insulation characteristics
		BA11	BA12	BA13	BA14	BA15	BA16	BA17	BA18	BA19	BA20	
		Thermal functions and uses	Heat insulation	Heat- and shock-resistant materials	Low heat expansion	Biological and medical uses						
		BA21	BA22	BA23	BA24	BA25	BA26	BA27	BA28	BA29	BA30	
		Control of the crystal phase	Arrangement of crystals	Structures wherein different layers are arranged	Crystal grains of characteristic shapes and sizes	Granularity						
CA	STRUCTURES	CA01	CA02	CA03	CA04	CA05	CA06	CA07	CA08	CA09	CA10	
		Control of the crystal phase	Arrangement of crystals	Structures wherein different layers are arranged	Crystal grains of characteristic shapes and sizes	Granularity	Shapes	Film and sheets	Porous bodies	Composites		
		CA11	CA12	CA13	CA14	CA15	CA16	CA17	CA18	CA19	CA20	
		GA01	GA02	GA03	GA04	GA05	GA06	GA07	GA08	GA09	GA10	
GA	MANUFACTURING METHODS	GA01	GA02	GA03	GA04	GA05	GA06	GA07	GA08	GA09	GA10	
		Justment	Forming methods	Sintering methods	Sintering atmospheres	Oxidizing atmospheres	Reducing atmospheres					
		GA11	GA12	GA13	GA14	GA15	GA16	GA17	GA18	GA19	GA20	

AA components

Refine the search effectively!

CA05 Granularity

4G031 AA04 and BA24 and CA05

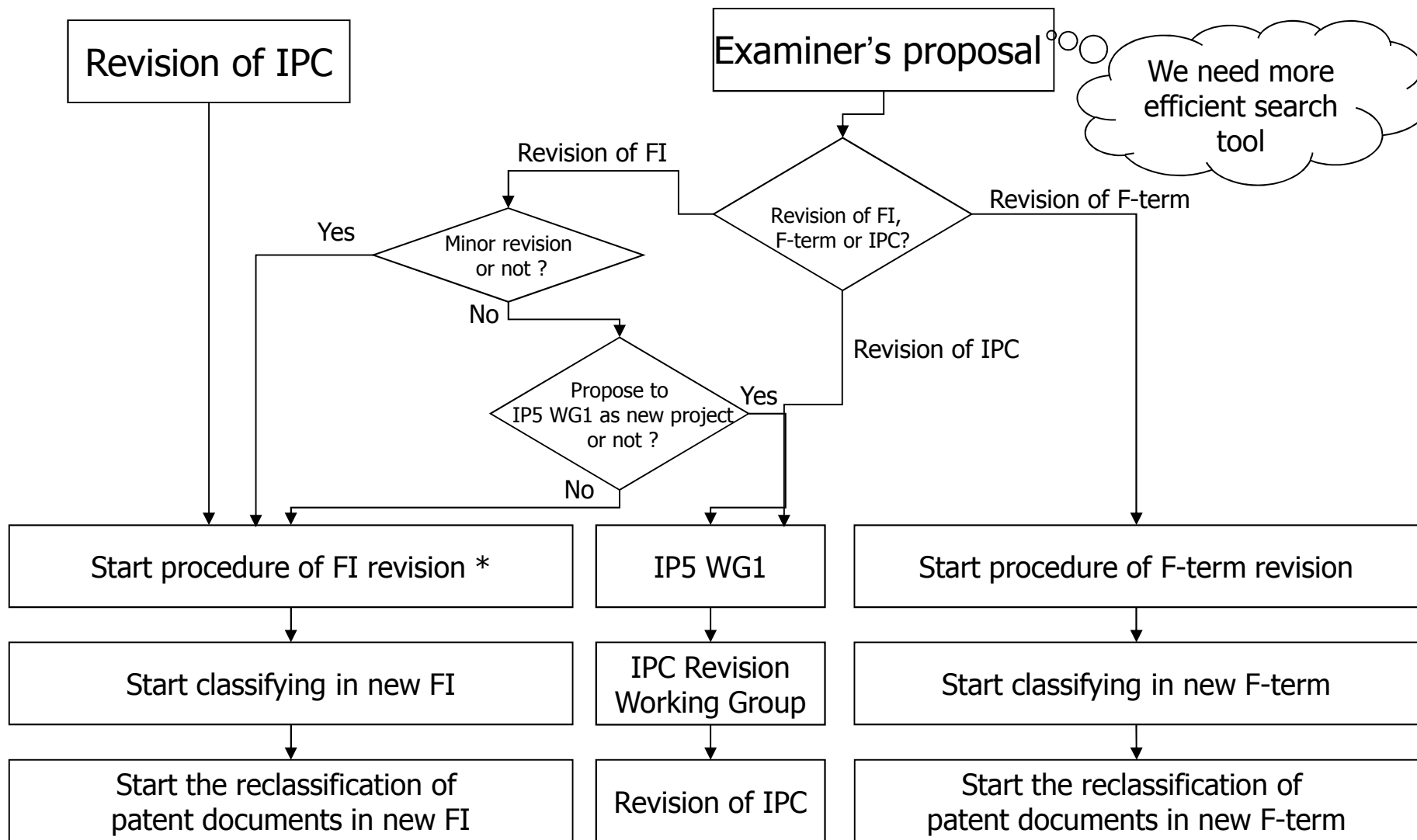
BA Functions and Uses

CA Structures

- Why FI/F-term?
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- **Revision of FI/F-term**
- Finding FI/F-term

	IPC	FI	F-term
Revision	Annual	Biannual	Annual
Reclassification	Yes	Yes	Yes*

* Basically, all the documents are reclassified, but in some themes, only the documents published after a specific year are reclassified (e.g. themes where a new technology was developed in a specific year).



Note (*) : FI revision is often made soon after approval at IPC Revision Working Group

■ Examples

➤ 2007.01 Inverter devices (H02M7/)

T024 → A004

➤ 2007.10 Hybrid Vehicles (B60K6/)

T010 → A006

.....

➤ 2012.01 Gearing (F16H57/)

T063 → A035

➤ 2012.01 Non-woven fabrics (D04H)

F003

Classification research

Increase rate of the number of documents

Usage frequency of F-term

Usage frequency of FI

Fタームメンテナンスの必要性が特に高いと考えられるテーマ

(1) 蓄積文献数の急増しているテーマ

以下の①～③の3つの条件にすべて合致するテーマを抽出 (22テーマ)

- ① 2011年5月現在のテーマ内蓄積文献数に対する2008年～2010年の合計蓄積文献数の割合が15%以上 (蓄積文献数が急増)
- ② 2001年～2010年の年間蓄積文献数の最大値に対する2010年の蓄積文献数が80%以上 (蓄積文献数が急増)
- ③ 2008年～2010年の合計蓄積文献数が1000件以上 (近年の蓄積文献数が一定以上)

テーマコード	解析タイプ	H22FY抽出テーマ	F I改正年度	Fタームメンテナンス実施年度	蓄積文献数 (公知年)				2010年の蓄積文献数/2001-2010年の蓄積文献数の最大値	蓄積文献数 (2011年5月現在)	2008年-2010年の蓄積文献数の合計	2008年-2010年の蓄積文献数がテーマ内全文文献数に占める割合	Fターム利用率 (H22.06-H23.05)	Fターム利用率の1年あたりの増減 (最近3年)	F I利用率 (H22.06-H23.05)	F I利用率の1年あたりの増減 (最近3年)	全文検索利用率 (H22.06-H23.05)	全文検索利用率の1年あたりの増減 (最近3年)	Fターム数	1分類項目当たりの文献数	検索外注平均スクリーニング数 (H22.06-H23.05)	検索外注平均スクリーニング数の1年あたりの増減 (最近3年)	テーマ
					2008	2009	2010	2001-2010の最大値															
1 9X088	F	○	H19FY	H22FY	1335	1469	1547	1547	100%	13,707	4351	32%	2%	0%	44%	0%	84%	6%	231	59.3	787	60.9	9X088
2 9X032	F	○	H20FY	H22FY	1682	1620	1540	1682	92%	17,982	4842	27%	2%	0%	56%	9%	74%	7%	328	54.8	912	127.0	9X032
3 9X022	F	○		H22FY	1854	2073	2549	2549	100%	29,009	6476	22%	9%	4%	38%	4%	75%	7%	126	230.2	920	313.8	9X022
4 9X020	F	○		H16FY	2353	2410	1940	2410	80%	36,010	6703	19%	22%	-2%	9%	-1%	92%	3%	402	89.6	538	-4.3	9X020
● 5 9X048	F I	○			698	747	724	747	97%	11,851	2169	18%	1%	0%	44%	5%	57%	7%	0	455.8	1965	93.0	9X048
6 9X151	F I	○		H23FY	553	531	477	592	81%	8,913	1561	18%	2%	1%	46%	8%	98%	5%	0	524.3	1223	281.2	9X151
● 7 9X232	F	○			1206	1347	1553	1553	100%	23,488	4106	17%	50%	10%	55%	14%	54%	-2%	110	213.5	989	171.9	9X232
8 9X070	F			H22FY	1990	2196	2540	2540	100%	38,747	6726	17%	58%	0%	10%	0%	39%	6%	260	149.0	782	330.8	9X070
9 9X087	F			H15FY	5550	5558	5547	6790	82%	96,775	16655	17%	20%	-5%	6%	1%	89%	5%	683	141.7	712	-54.3	9X087
10 9X202	部分 F			H18FY	751	556	602	751	80%	11,105	1909	17%	17%	6%	30%	-8%	74%	-3%	267	40.5	587	40.4	9X202
● 11 9X244	F I	○			567	590	507	590	86%	9,919	1664	17%	0%	0%	66%	-2%	56%	2%	0	137.8	811	1.1	9X244
12 9X393	F	○		H24FY	677	685	618	720	86%	11,889	1980	17%	33%	-2%	55%	-3%	78%	12%	79	150.5	1127	-17.2	9X393
13 9X129	F	○	H19FY		327	350	340	422	81%	6,256	1017	16%	58%	5%	35%	3%	44%	-1%	99	63.2	1012	-18.4	9X129
14 9X021	F	○		H22FY	5312	4894	5601	5684	93%	97,298	15807	16%	4%	0%	27%	-2%	95%	5%	390	249.5	882	25.7	9X021
● 15 9X005	F	○			399	474	463	474	98%	8,297	1336	16%	21%	1%	67%	7%	93%	7%	88	34.3	280	0.0	9X005
● 16 9X030	F I	○			425	503	481	553	87%	8,825	1409	16%	0%	0%	62%	8%	76%	1%	0	157.6	902	56.1	9X030
17 9X125	部分 F	○		H23FY	847	763	698	851	82%	14,636	2308	16%	16%	2%	14%	-1%	91%	4%	74	180.7	604	94.5	9X125
● 18 9X122	F	○			1657	1615	1466	1716	85%	30,050	4738	16%	21%	-3%	16%	0%	92%	7%	211	142.4	768	147.2	9X122
19 9X078	F			H21FY	1535	2133	2336	2336	100%	39,127	6004	15%	33%	19%	22%	7%	72%	28%	220	177.9	1412	87.7	9X078
20 9X111	F	○		H16FY	803	803	690	837	82%	15,054	2296	15%	54%	7%	4%	0%	58%	1%	285	52.8	852	85.3	9X111

Theme code

Classification research (FI)

Usage frequency and the number of documents of each index can be shown.

☆ **庁内版** 分類対照ツール ☆ --concordance version--

[通常ver.](#)

[ECLA・ICD表示ツール](#)

[CPC表示ツール](#)

[パテントマップガイダンス](#)

IPC ▼ B60G17/015

入力例: G06F3 or G06F3/ or G06F3/00 等 (G06F等とするとサブクラス全体を表示)

[使用方法](#)

IPCタイトル: 日 英 両方 非表示 記号のみ

FIドット表示パターン: pattern1 pattern2

FIタイトル: 日 英 両方 非表示

IPCレベルのみ表示: オフ オン

ECLAタイトル: 英 日 両方 非表示

IPC 文献数表示: オン オフ

CPCタイトル: 英 日 両方 非表示 [CPCにないIPC](#)

FI 文献数表示: オン オフ FI 利用回数表示: オン オフ

CPC 文献数表示: オン オフ

IPC

FI

CPC

B60G 17/015	電気または電子要素からなる調整手段(17/005が優先)[5, 8]	20411件	B60G 17/015	電気または電子要素からなる調整手段(B60G17/005が優先)[5, 8]	3640件	127回	3D301	HB	B60G17/015	the regulating means comprising electric or electronic elements (B60G17/002], B60G17/005 take precedence)	2131件
			B60G 17/015 A	減衰力を制御するもの(ダンパーの絞り制御等)	4739件	771回	3D301	HB	B60G17/0152	{ characterised by the action on a particular type of suspension unit (B60G17/01941 takes precedence)}	1869件
			B60G 17/015 B	作動流体を制御するもの(ハイドロの制御、フルアクティブ、ばね定数の制御)	4916件	87回	3D301	HB	B60G17/0155	{ pneumatic unit }	1331件
			B60G 17/015 C	空気を制御するもの	2906件	53回	3D301	HB	B60G17/0157	{ non-fluid unit, e.g. electric motor }	690件
			B60G 17/015 Z	その他	1819件	296回	3D301	HB			
B60G 17/016	車両が走行している場合の、特定の動作、特定の状況、または運転者の入力に対する調整手段の反応に特徴のあるもの[8]	3778件	B60G 17/016	車両が走行している場合の、特定の動作、特定の状況、または運転者の入力に対する調整手段の反応に特徴のあるもの[8]	749件	75回	3D301	HB	B60G17/016	characterised by their responsiveness, when the vehicle is travelling, to specific motion, a specific condition, or driver input { B60G17/017 takes precedence }	1137件
									B60G17/0161	{ mainly during straight-line motion (B60G17/0164 takes precedence)}	113件
									B60G17/0162	{ mainly during a motion involving steering operation, e.g. cornering, overtaking (B60G17/0164 takes precedence)}	2026件
									B60G17/0163	{ the control involving steering geometry, e.g. four-wheel steering }	95件

- Why FI/F-term?
- Overview of patent classification systems
- What is FI?
- What is F-term?
- Revision of FI/F-term
- **Finding FI/F-term**

(19) 日本国特許庁 (J P)		(12) 公開特許公報 (A)	(11) 特許出願公開番号 特開2001-209526 (P2001-209526A)
		(43) 公開日 平成13年8月3日(2001.8.3)	
(51) Int.Cl. ⁷	識別記号	F I	タームト* (参考)
G 0 6 F 9/00 11/34	3 2 0	G 0 6 F 9/00 11/34	3 2 0 A 5 B 0 4 2 B
審査請求 有 請求項の数 6 O L (全 9 頁)			
(21) 出願番号	特願2000-18509(P2000-18509)		(71) 出願人 000004237 日本電気株式会社 東京都港区芝五丁目7番1号
(22) 出願日	平成12年1月27日(2000.1.27)		(72) 発明者 川野 功雄 東京都港区芝五丁目7番1号 株式会社内
			(74) 代理人 100093838 弁理士 小橋川 洋二
			Fターム(参考) 5B042 GA33 MA08 MA11 MA14 MC35 MC40 NN04
(54) 【発明の名称】 コンピュータシステムにおけるシステム情報抽出方式およびその方法			
(57) 【要約】			
【課題】 コンピュータシステムにおける状態表示メッセージのコンソールへの表示有無に拘らず、コマンド発行に必須のパラメータ(引数)を抽出することが可能なコンピュータシステムにおけるシステム情報抽出方式を提供する。			
【解決手段】 コンピュータ上で発生する事象メッセー			

FI classes on Japanese first pages (KOKAI) since 1992

(19) 日本国特許庁 (JP)	(12) 公開特許公報 (A)	(11) 特許出願公開番号 特開2005-225519 (P2005-225519A)
		(43) 公開日 平成17年8月25日 (2005. 8. 25)
(51) Int. Cl. ⁷ B65D 77/24 G09F 23/00	FI B65D 77/24 G09F 23/00	D テーマコード (参考) 3E067
審査請求 未請求 請求項の数 3 OL (全 8 頁)		
(21) 出願番号 特願2004-35896 (P2004-35896)	(71) 出願人 000002897 大日本印刷株式会社 東京都新宿区市谷加賀町一丁目1番1号	
(22) 出願日 平成16年2月13日 (2004. 2. 13)	(74) 代理人 100111659 弁理士 金山 聡	
	(72) 発明者 宇佐見 洋治 東京都新宿区市谷加賀町一丁目1番1号 大日本印刷株式会社内	
	(72) 発明者 大野 浩幸 東京都新宿区市谷加賀町一丁目1番1号 大日本印刷株式会社内	
	Fターム (参考) 3E067 AB01 AB38 AB99 AC04 BA05A BA05B BA05C BA12B BC06A BC06B BC06C EA29 EC35 EE03 EE06 EE09 EE22 EE28 EE42 FA04 GD10	
(54) 【発明の名称】 記録媒体付き土産物		
(57) 【要約】 【課題】 旅行や出張等に行った者から土産物をお土産としてもらった人達が、自分もその土産物を産する地域に旅行に行きたいという動機付けを持つようにすると共に、更にその旅行において、お土産としてもらった土産物と同じ土産物の購入を行いたいと思わせる動機付けを与えられるようにして、特定の土産物の販売促進と、その土産物を産する地域の観光客の増加を促進することができるようにした記録媒体付き土産物を提供する。		

theme code

F-terms on Japanese first pages (KOKAI) since 2000

full list of term codes

	メニュー	検索画面	一覧画面
公開・公表IPC記事	H01L 27/148 H04N 1/028 国際分類 第4版 H01L 27/14	Z B	
theme codes	国際分類 第6版 H01L 27/148 H04N 1/028 国際分類 第4版 H01L 27/14	Z B	
公告IPC記事			
テーマコード記事	4M118 5C051		FI classes
FI記事	4H01L27/14B 4H04N1/028Z		
Fターム記事	4M118 AA03 4M118 AB01 4M118 BA11 4M118 CA02 4M118 DA03 4M118 EA15 4M118 FA08 4M118 FA26 4M118 FA33 4M118 FA47 5C051 AA01 5C051 BA03 5C051 DA03 5C051 DA10 5C051 DB01 5C051 DB04 5C051 DC02 5C051 DC03 5C051 DC07 5C051 EA00		Full list of term codes
発明等の名称(漢字)記事	線形固体撮像素子		

Legal status in Japanese

theme codes

FI classes

Full list of term codes

Thank you !

December 2013

JAPAN PATENT OFFICE