

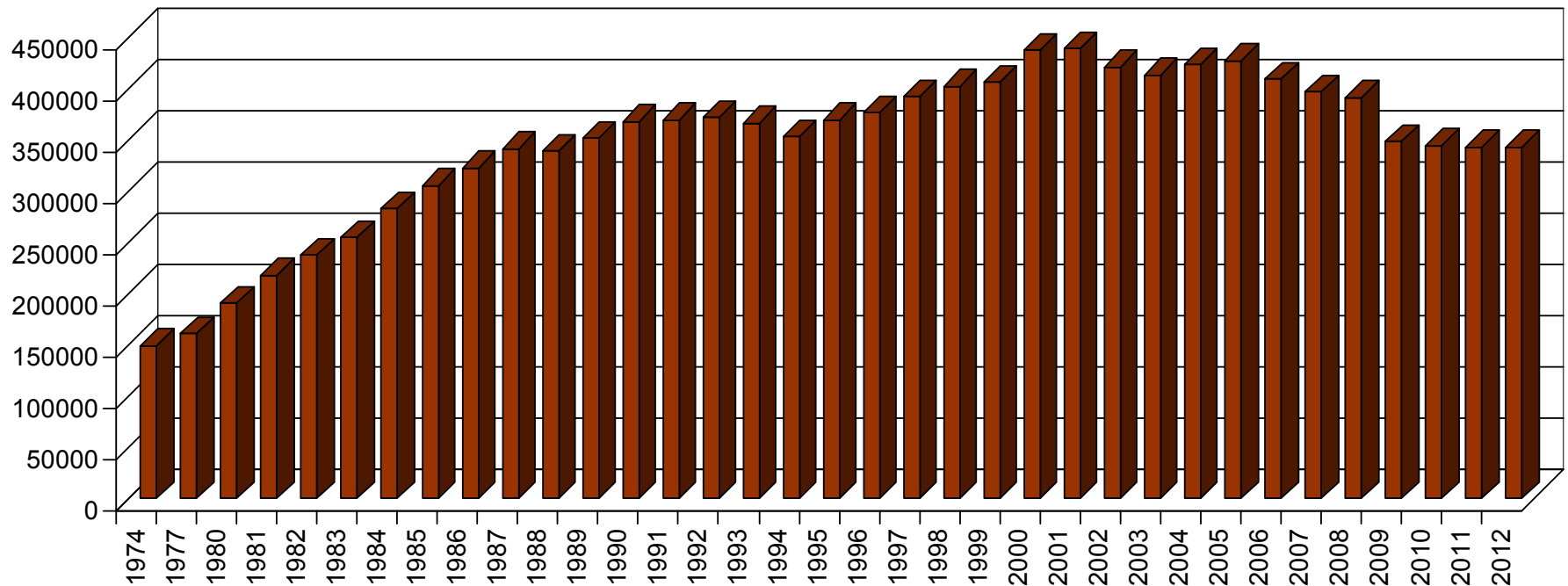
Outline of FI/F-term

Dec. 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
- Identifying FI/F-term
- Searching with 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!



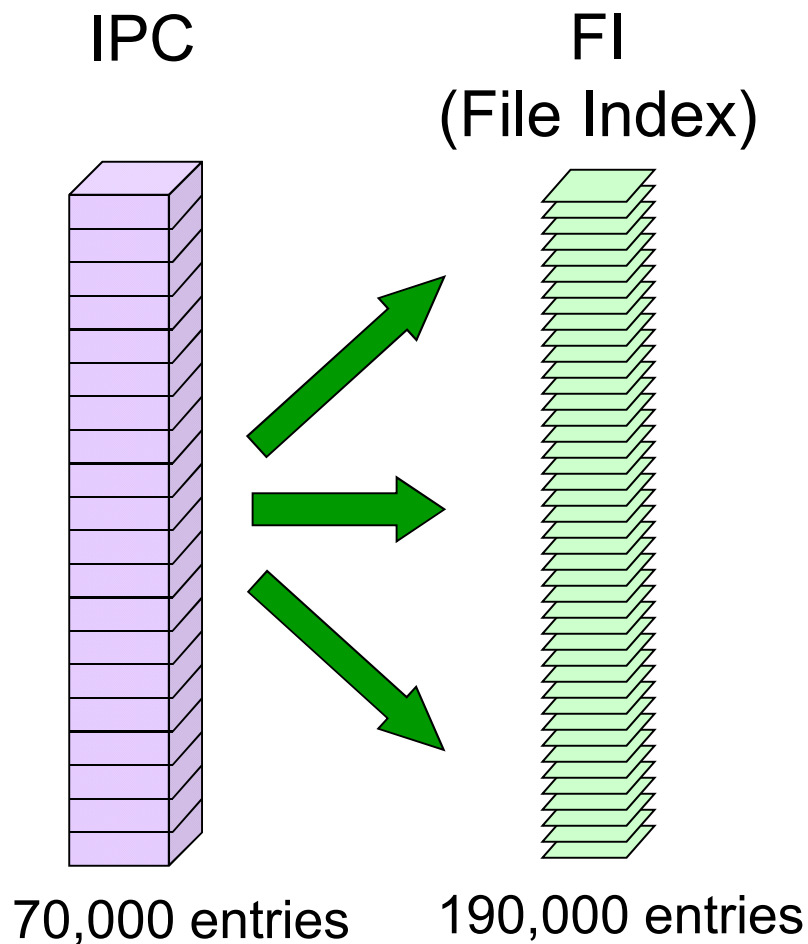
- ❑ 1977: Strasbourg Agreement entered in force in Japan
- ❑ 1978: IPC officially introduced at JPO
 - growing numbers of patent documents
 - JPO examiners subdivide files (using alphabetic letters A - Z)
 - start of "File Index" (FI) classification
- ❑ 1984: "paperless office" project
 - computerised search system
 - new search indexes: File Forming Terms (F-terms)
 - to improve search efficiency

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Overview of patent classification systems

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)

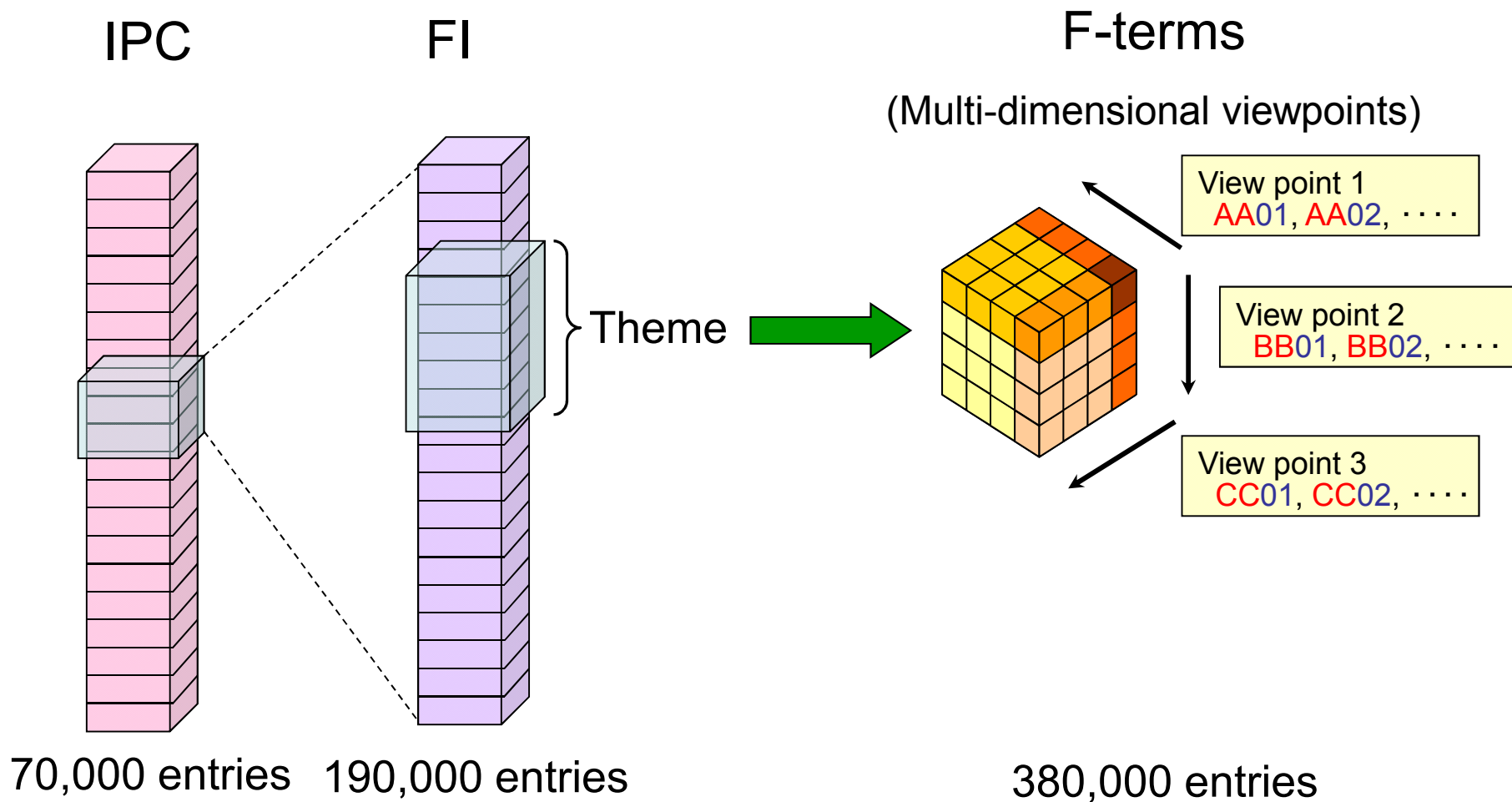
--> FI is subdivided from only the viewpoint of IPC

- 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

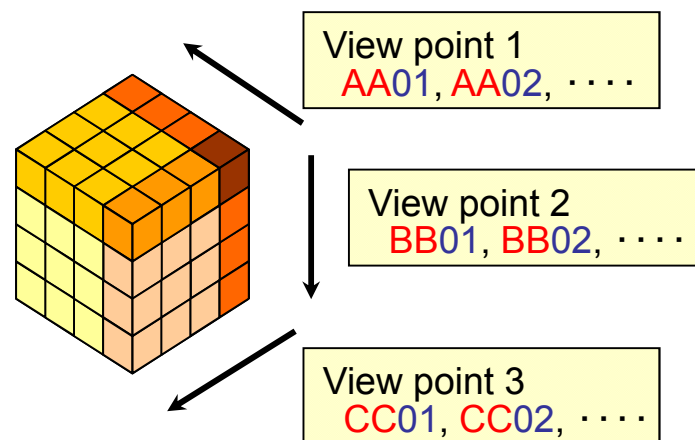


What is F-term?

- ❑ 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)



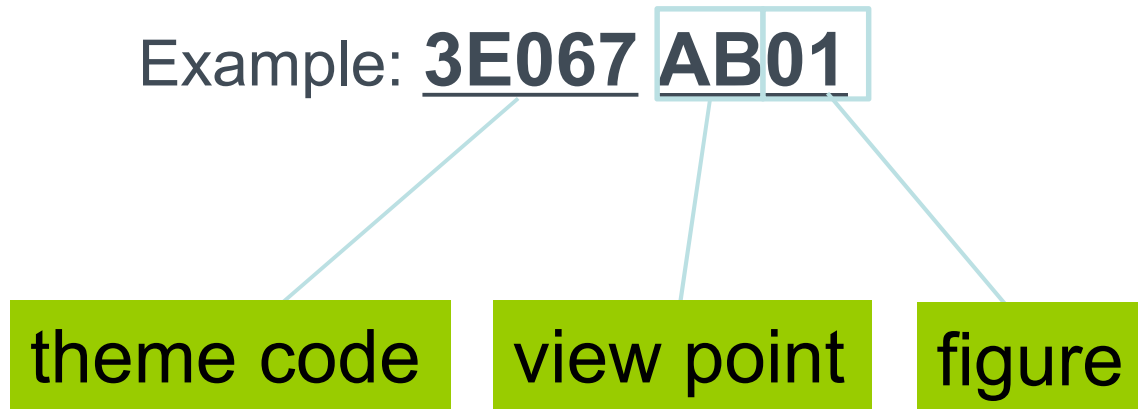
- A certain technical area
(Total **2,600 Themes**)
- Around 1,800 themes out of 2,600 have F-terms
- A theme has a certain **FI coverage**
- A theme consists of a **theme code** and a **subject of the theme** corresponding the **FI coverage**
- A **theme code** is expressed as 5-digits consisting of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

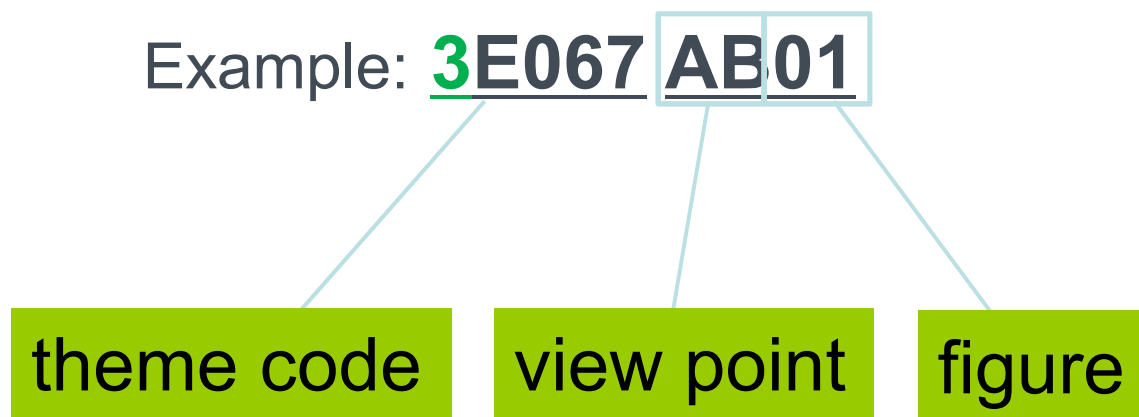
theme code

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



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 — 1/08	AA	AA	AA	AA	AA
	00	01	02	03	04
	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

COMPONENTS

BA

FUNCTIONS AND
USES

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

** F-term 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.) Image 1) Image 2) Drawing
-Relationship between FIs and viewpoints	F-term list table(data sheet)
-Structure of F-term list	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 Shimbum, 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)

Advantage of multiple technical viewpoints

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 Niobium oxides	AA14 Tantalum oxides	AA15 Chromium oxides	AA16 Molybdenum oxides	AA17 Tungsten oxides	AA18 Manganese oxides	AA19 Oxides from Group VIII	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 Translucency	BA16 Electrical and chemical properties	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 or voids	CA04 Crystal grains or crystalline phases and sizes	CA05 Granularity	CA06 External shapes	CA07 Thin films and coatings	CA08 Porous bodies	CA09 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

Advantage of multiple technical viewpoints

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	FUNCTIONS AND USES	AA21	AA22	AA23	AA24	AA25	AA26	AA27	AA28	AA29	AA30
		Iron oxides	Cobalt oxides	Nickel oxides	Copper oxides	Zinc oxides	Borides	Molybdenum oxides	Tungsten oxides	Manganese oxides	Oxides from Group VIII
		AA31	AA32	AA33	AA34	AA35	AA36	AA37	AA38	AA39	AA40
		Tin oxides	Lead oxides	Phosphorus oxides	Antimony oxides	Bismuth oxides	Borides	Oxides from Group IX to VIIa	Carbon oxides	Silicon oxides	Other oxides
		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	Other electrical functions and uses	Optical functions and uses	Translucency	Electrical and optical characteristics
		BA11	BA12	BA13	BA14	BA15	BA16	BA17	BA18	BA19	BA20
		Current-collection characteristics	Insulation characteristics	Magnetic-head support members	Optical functions and uses	Translucency	Electrical and optical characteristics	Other electrical and optical characteristics	Thermal functions and uses	Heat insulation	Heat- and shock-resistance characteristics
		BA21	BA22	BA23	BA24	BA25	BA26	BA27	BA28	BA29	BA30
		Thermal functions and uses	Heat insulation	Heat- and shock-resistance characteristics	Low heat expansion	Fireproof substances	Biological and chemical functions and uses	Other biological and chemical functions and uses	External shapes and structures	Thin films and sheets	Porous bodies
CA	CA00	CA01	CA02	CA03	CA04	CA05	CA06	CA07	CA08	CA09	CA10
	STRUCTURES	Control of the crystal structure	Arrangement of crystal grains	Structures of different crystal grains	Crystal grains of characteristic shapes	Granularity	Other structures	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	Preparation methods	Forming methods	Sintering methods	Sintering atmospheres	Oxidizing atmospheres	Reducing atmospheres	Other manufacturing methods	Other manufacturing methods	Other manufacturing methods	Other manufacturing methods

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
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 IVa	Aluminum oxides	Silicon oxides	
	AA31	AA32	AA33	AA34	AA35	AA36	AA37	AA38	AA39	AA40
	Tin oxides	Lead oxides	Phosphorus oxides	Antimony oxides	Bismuth oxides	Borides				
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				Electric characteristics
	BA11	BA12	BA13	BA14	BA15	BA16	BA17	BA18	BA19	BA20
	Current-carrying capacity	Thermal conductivity	Magnetoresistance	Electrical and magnetic properties	Electrical and magnetic properties	Electrical and magnetic properties	Electrical and magnetic properties	Electrical and magnetic properties	Electrical and magnetic properties	Electrical and magnetic properties
	BA21	BA22	BA23	BA24	BA25	BA26	BA27	BA28	BA29	BA30
	Thermal functions and uses	Heat insulation	Heat- and shock-resistance characteristics	Low heat expansion	Fireproof substances	Biological and chemical functions and uses	Optical functions and uses	Acoustic functions and uses	Other functions and uses	
STRUCTURES	CA01	CA02	CA03	CA04	CA05	CA06	CA07	CA08	CA09	CA10
	Control of the structure	Arrangement of components	Structures	Crystal grains of the structure	Granularity	Internal shapes and structures	Thin films and sheets	Porous bodies	Honeycomb bodies	
MANUFACTURING METHODS	GA01	GA02	GA03	GA04	GA05	GA06	GA07	GA08	GA09	GA10
	Preparation of raw materials	Forming	Sintering	Finishing	Other manufacturing methods	Sintering atmospheres	Oxidizing atmospheres	Reducing atmospheres		
	GA11	GA12	GA13	GA14	GA15	GA16	GA17	GA18	GA19	GA20
	Preparation of raw materials	Forming	Sintering	Finishing	Other manufacturing methods	Sintering atmospheres	Oxidizing atmospheres	Reducing atmospheres		

AA components

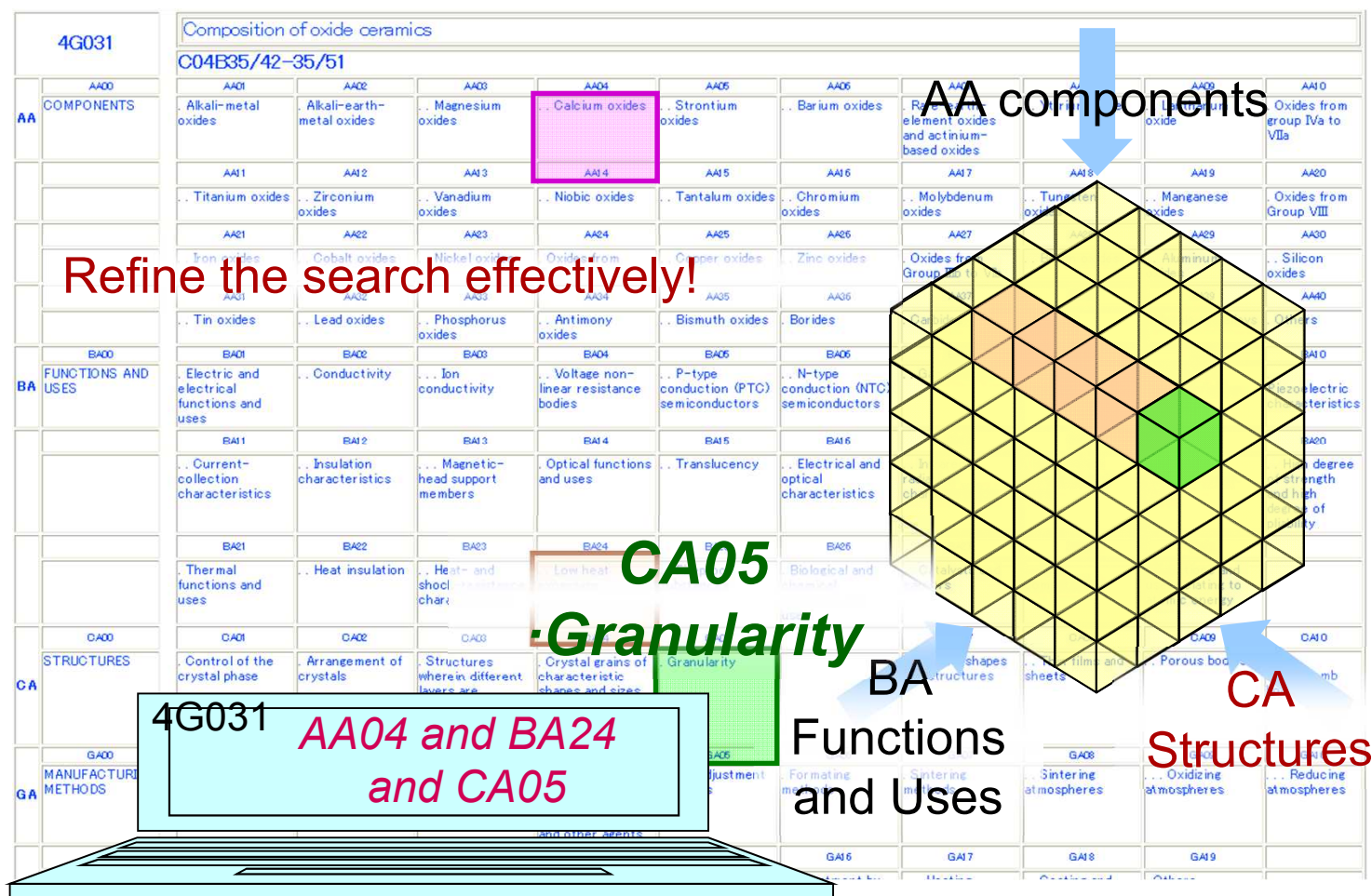
BA24 Low heat expansion

4G031
AA04 and BA24

BA Functions and Uses

Advantage of multiple technical viewpoints

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



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	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).

■ Examples

- 2007.01 Inverter devices (H02M7/)

T024 → A004

- 2007.10 Hybrid Vehicles (B60K6/)

T010 → A006

.....

- 2012.01 Gearing (F16H57/)

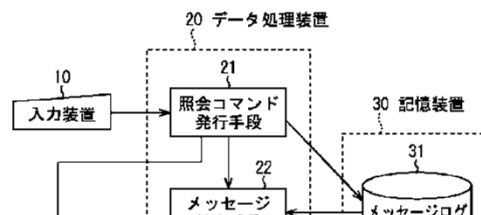
T063 → A035

- 2012.01 Non-woven fabrics (D04H)

F003

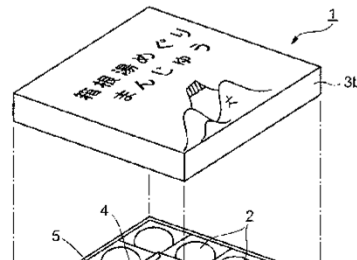
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(19) 日本国特許庁 (J P)		(12) 公開特許公報 (A)		(11) 特許出願公開番号 特開2001-209526 (P2001-209526A)	
(43) 公開日 平成13年8月3日 (2001.8.3)					
(51) Int.Cl. ⁷	識別記号	FI		サーチコード* (参考)	
G 0 6 F 9/00 11/34	3 2 0	G 0 6 F 9/00 11/34	3 2 0 A B	5 B 0 4 2	
審査請求 有 請求項の数 6 O L (全 9 頁)					
(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 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 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 B 65 D 77/24 G 09 F 23/00		F I B 65 D 77/24 G 09 F 23/00		D テーマコード (参考) 3 E 0 6 7	
審査請求 未請求 請求項の数 3 O L (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

Legal status in Japanese

theme codes

FI classes

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	
公告IPC記事	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	
テーマコード記事	4M118 5C051		
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		
発明等の名称(漢字)記事	線形固体撮像素子		

- 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
- **Identifying FI/F-term**
- Searching with FI/F-term

Where?

- ❑ Patent Map Guidance in IPDL (Industrial Property Digital Library)
 - ✓ (English) http://www5.ipdl.inpit.go.jp/pmgs1/pmgs1/pmgs_E
 - ✓ (Japanese) <http://www5.ipdl.inpit.go.jp/pmgs1/pmgs1/pmgs>

- ❑ IPC-FI-CPC parallel viewer in JPO website
 - ✓ (English normal) http://www.jpo.go.jp/cgi/cgi-bin/search-portal/narabe_tool_e/narabe_e.cgi
 - ✓ (English concordance) http://www.jpo.go.jp/cgi/cgi-bin/search-portal/narabe_tool_e/narabe_con_e.cgi
 - ✓ (Japanese normal) http://www.jpo.go.jp/cgi/cgi-bin/search-portal/narabe_tool/narabe.cgi
 - ✓ (Japanese concordance) http://www.jpo.go.jp/cgi/cgi-bin/search-portal/narabe_tool/narabe_con.cgi

http://www5.ipdl.inpit.go.jp/pmgs1/pmgs1/pmgs_E

Patent Map Guidance

[MENU](#)[NEWS](#)[HELP](#)

- Inquiry**
Click "FI" or "F-term". Or input FI / F-term code to the query box and click Search button.

Query

Search Object

 - [FI](#)
e.g. : A61K A61K6 C08L27/06 A61K7/46@A A61K7/46,315@A
 - [F-term](#) ☒ F-term List ☐ F-term Description
e.g. : 2B 2B396

Indication type selection is effective in the lower hierarchies than the FI main group.

Indication Type ☒ List ☐ Target ☐ The same hierarchy

- IPC-FI Concordance Search**
Input IPC code to the query box and click Search button.

Query

IPC code

e.g. : A61K A61K6 A61K6/02 A01N25+B01B

IPC-FI-CPC scheme parallel viewer (normal)

http://www.jpo.go.jp/cgi/cgi-bin/search-portal/narabe_tool_e/narabe_e.cgi

FI and CPC groups having the same IPC symbol appear in parallel.

IPC Sample:

IPC: ☐ JP ☒ EN ☐ Both ☐ non-display ☐ symbol only

FI: ☐ JP ☒ EN ☐ Both ☐ non-display

ECLA: ☒ EN ☐ JP ☐ Both ☐ non-display

ICO: ☐ EN ☐ JP ☐ Both ☒ non-display

CPC: ☒ EN ☐ JP ☐ Both ☐ non-display

CPC2000: ☐ EN ☐ JP ☐ Both ☒ non-display

Select scheme and input symbol

FI Handbook is japanese only

IPC	FI	ECLA	CPC
H02B 1/04 ** Mounting thereon of switches or of other devices in general, the switch or device having, or being without, casing 8552docs	H02B 1/04 ** Mounting thereon of switches or of other devices in general, the switch or device having, or being without, casing 15docs	H02B1/04 ** Mounting thereon of switches or of other devices in general, the switch or device having, or being without, casing 1244docs	H02B1/04 ** Mounting thereon of switches or of other devices in general, the switch or device having, or being without, casing 1244docs
	H02B 1/04 A related to mounting of members such as switches (including related metal pieces) (rosettes or current transformers 1/18) 412docs	H02B1/04B ... [N Mechanical coupling for side-by-side mounted apparatus] 358docs	H02B1/041 ... [Mechanical coupling for side-by-side mounted apparatus] 358docs
	H02B 1/04 B Mounted by penetrated into members 213docs	H02B1/04C ... [N Mounting on perforated supports by means of screws or locking members] 260docs	H02B1/042 ... [Mounting on perforated supports by means of screws or locking members] 260docs
	H02B 1/04 C related to mounting bodies or components with multiple different switches 298docs	H02B1/04C2 ... [N the perforated support having openings distributed according to a pattern] 135docs	H02B1/043 ... [the perforated support having openings distributed according to a pattern] 135docs
	H02B 1/04 D related to mounting on mosaic panels (H 02 B 15/04 takes precedence) 70docs		
	H02B 1/04 E characterised by mounting metal pieces (A, C take precedence) 247docs		
	H02B 1/04 F Others 145docs		
H02B 1/044 *** Mounting through openings 1631docs		H02B1/044 *** Mounting through openings 1465docs	H02B1/044 *** Mounting through openings 1465docs
H02B 1/048 **** Snap mounting 929docs		H02B1/048 **** Snap mounting 842docs	H02B1/048 **** Snap mounting 842docs
H02B 1/052 *** Mounting on rails 2563docs		H02B1/052 *** Mounting on rails 1969docs	H02B1/052 *** Mounting on rails 1969docs

IPC-FI-CPC scheme parallel viewer (concordance)

http://www.jpo.go.jp/cgi/cgi-bin/search-portal/narabe_tool_e/narabe_con_e.cgi

FI and CPC groups having concordance to the same IPC group appear in parallel.

☆ Scheme parallel viewer — concordance version — [normal ver.](#)

IPC: ☐ JP ☒ EN ☐ Both ☐ non-display ☐ symbol only

FI: ☐ JP ☒ EN ☐ Both ☐ non-display

ECLA: ☐ EN ☐ JP ☐ Both ☒ non-display

CPC: ☒ EN ☐ JP ☐ Both ☐ non-display

Display: Clear: Sample:

Display IPC level only: ☒ Off ☐ On

IPC doc number: ☒ On ☐ Off

FI doc number: ☒ On ☐ Off

CPC doc number: ☒ On ☐ Off

Select scheme and input symbol

IPC

FI

CPC

FI Handbook is japanese only

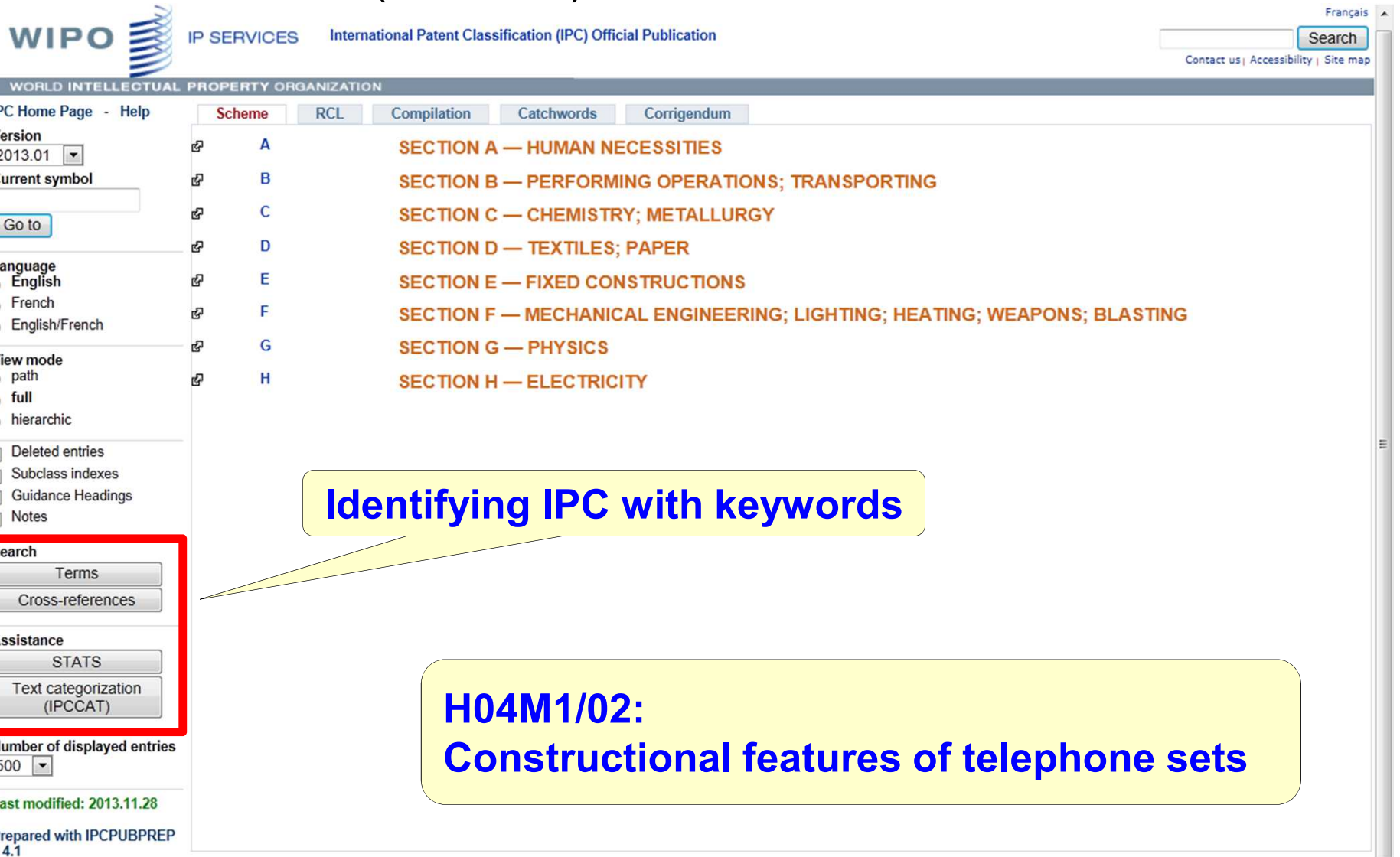
H01B 13/012 * for manufacturing wire harnesses 5077docs	H01B 13/00 513 Arrangements or methods for manufacturing wire harnesses (mounting of connectors to cables H 01 R 43/00) 98docs: SG323:HB	H01B13/012 * for manufacturing wire harnesses 357docs
	H01B 13/00 513 A Characterised by terminating processes e.g. connection between cable and connector 346docs: SG323:HB	H01B13/01209 ** [Details] 165docs
	H01B 13/00 513 B Characterised by Tying cables 241docs: SG323:HB	H01B13/01218 ** [the wires being disposed by hand] 27docs
	H01B 13/00 513 C Characterised by wiring heads 50docs: SG323:HB	H01B13/01227 *** [using a layout board] 130docs
	H01B 13/00 513 D Characterised by the use of wiring bases 402docs: SG323:HB	H01B13/01236 ** [the wires being disposed by machine] 55docs
	H01B 13/00 513 Z Others 651docs: SG323:HB	H01B13/01245 *** [using a layout board] 178docs
		H01B13/01254 ** [flat-harness manufacturing] 200docs
		H01B13/01263 ** [Tying, wrapping, binding, lacing, e. strapping or sheathing harnesses] 135docs
		H01B13/01272 *** [Harness tying apparatus] 52docs
		H01B13/01281 *** [Harness wrapping apparatus] 66docs
		H01B13/0129 *** [Sheathing harnesses with foil material] 59docs
H01B 13/016 * for manufacturing co-axial cables (applying discontinuous insulation H01B13/20) 1128docs	H01B 13/00 553 Arrangements or methods for manufacturing coaxial cables 8docs: SG323:HB	H01B13/016 * for manufacturing co-axial cables (applying discontinuous insulation H01B13/20) 249docs
	H01B 13/00 Coaxial cables with air-gap type insulator 47docs: SG323:HB	H01B13/0162 ** [of the central conductor] 64docs

How?

□ IPC -> FI -> F-term concordance

- ✓ Step 1: Identifying IPC
- ✓ Step 2: Identifying FI from IPC
- ✓ Step 3: Identifying F-term (theme code) from FI

WIPO website (IPCPUB)



The screenshot shows the WIPO IPCPUB website. The header includes the WIPO logo, 'IP SERVICES', and 'International Patent Classification (IPC) Official Publication'. A search bar with a 'Search' button is in the top right. The main content area displays the IPC Scheme with sections A through H. A red box highlights the 'Search' and 'Assistance' sections on the left sidebar. A yellow callout bubble points to the 'Search' section, and another yellow box contains the search criteria.

WIPO IP SERVICES International Patent Classification (IPC) Official Publication

World Intellectual Property Organization

IPC Home Page - Help

Version: 2013.01

Current symbol: [input field]

Go to: [button]

Language: English (selected), French, English/French

View mode: path, full (selected), hierarchic

Deleted entries [checked], Subclass indexes [unchecked], Guidance Headings [checked], Notes [checked]

Search: Terms, Cross-references

Assistance: STATS, Text categorization (IPCCAT)

Number of displayed entries: 500

Last modified: 2013.11.28

Prepared with IPCPUBPREP v 4.1

Scheme RCL Compilation Catchwords Corrigendum

A SECTION A — HUMAN NECESSITIES

B SECTION B — PERFORMING OPERATIONS; TRANSPORTING

C SECTION C — CHEMISTRY; METALLURGY

D SECTION D — TEXTILES; PAPER

E SECTION E — FIXED CONSTRUCTIONS

F SECTION F — MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING

G SECTION G — PHYSICS

H SECTION H — ELECTRICITY

Identifying IPC with keywords

H04M1/02:
Constructional features of telephone sets

Patent Map Guidance

Patent Map Guidance

[MENU](#)[NEWS](#)[HELP](#)

- Inquiry**
Click "FI" or "F-term". Or input FI / F-term code to the query box and click Search button.

Query

Search Object

 - [FI](#)

e.g. : A61K A61K6 C08L27/06 A61K7/46@A A61K7/46,315@A
 - [F-term](#)

☒ F-term List ☐ F-term Description

e.g. : 2B 2B396

Indication type selection is effective in the lower hierarchies than the FI main group.

Indication Type ☒ List ☐ Target ☐ The same hierarchy
- IPC-FI Concordance Search**
Input IPC code to the query box and click Search button.

Query

IPC code

e.g. : A61K A61K6 A61K6/02 A01N25+B01B

H04M1/02:
Constructional features
of telephone sets

Patent Map Guidance

[MENU](#) [HELP](#) [TOP](#) [BACK](#) [NEXT](#)

**** IPC-FI Concordance Search ****

If you want to search again, input IPC code to the query box and click Search button.
Refer to HELP for a detailed input method.

IPC code

e.g. : A61K A61K6 A61K6/02 A01N25+B01B

Search Results 11

Click on a subgroup after you select Indication Type.
Refer to HELP for the details of the Indication Type.

Indication Type ☒ List ☐ Target ☐ The same hierarchy

IPC-FI Search Results 11

IPC	FI
H04M1/02	H04M1/02
H04M1/02	H04M1/02@A
H04M1/02	H04M1/02@B
H04M1/02	H04M1/02@C
H04M1/02	H04M1/02@D
H04M1/02	H04M1/02@E
H04M1/02	H04M1/02@F
H04M1/02	H04M1/02@G
H04M1/02	H04M1/02@H
H04M1/02	H04M1/02@J
H04M1/02	H04M1/02@Z

IPC to FI concordance

Patent Map Guidance

[MENU](#)
[HELP](#)

[TOP](#)
[BACK](#)
[NEXT](#)
[Former main group](#)
[Following main group](#)
[Main group selection](#)

[Revision Information](#) (Japanese only)

*** * FI (List Indication) * ***

This screen shows all FIs contained in the main group "H04M1/00".

Click on a subgroup after you select Indication Type.
Refer to HELP for the details of the Indication Type.

Indication Type ☒ List ☐ Target ☐ The same hierarchy

R . . Multi-function telephone (loudspeaker telephone 1/60 to 62, automatic answering telephone)	5K127
S . . . Functions for origination/termination	5K127
U . . . Coupling with other electrical components	5K127
V . . . Said electrical component linked with telephone operation	5K127
Q Coupling the telephone with another sub-station	5K127
Z Others	5K127
• 1/02 . . . Constructional features of telephone sets	
A Indication or button	5K023
B Special telephone (including a special structure or application)	5K023
C . Cordless telephone	5K023
D . Public telephone	5K023
E . Multi-function telephone	5K023
F . Pushbutton telephone	5K023
G . Inter-phone	5K023
H . Handset type	5K023
J . Decorative telephone	5K023
Z Others	5K023
• 1/03 . . . Constructional features of telephone transmitters or receivers	
A handset	5K023
B Microphone	5K023
C Receiver	5K023
Z Others	5K023
• 1/04 . . . Supports for telephone transmitters or receivers	
A Base or stand	5K023

FI to F-term (theme code) concordance

Patent Map Guidance

[MENU](#) [HELP](#) [TOP](#) [BACK](#) [NEXT](#)

**** F-term List ****

This screen shows the F-term list of the theme "5K023".

5K023
Telephone set structure
H04M1/02-1/23@Z

find relevant F-terms on this list

Viewpoint	F-term									
AA	AA00	AA01	AA02	AA03	AA04	AA05	AA06	AA07	AA08	AA09
	APPLICATIONS	. Public telephones	. Card telephones	. Push-button telephones (i.e., keyboard telephones)	. Home telephones	. Intercoms	. Conference telephones	. Portable telephones	. Cordless telephones	. Car phone
	AA11	AA12	AA13							
	. Ship telephones	. Security telephones	. Emergency telephones							
BB	BB00	BB01	BB02	BB03	BB04		BB06	BB07	BB08	BB09
	PURPOSE, FUNCTIONS	. Improving decoration	. Improving portability	. Making smaller, thinner	. Lower cost by reducing the number of parts, the amount of materials or by simplifying manufacture		. Improving handset functions	. Preventing unwanted transmissions	. Preventing eavesdropping	. Eliminating background noise
	BB11	BB12	BB13	BB14	BB15	BB16	BB17	BB18		
	. Improving operation	. Preventing operating errors	. Preventing mis-dialing	. Preventing partial hang-up	. Speed dialing	. Automatic dialing	. On-hook dialing	. Hands-free dialing		
	BB21		BB23	BB24	BB25	BB26	BB27	BB28		
	. Improving maintenance		. Improving safety	. Explosion-proofing	. Improving dust-proofing, waterproofing	. Improving durability	. Improving impact resistance	. Electromagnetic shielding, electrical field shielding, magnetic field		

Identifying FI from IPC and F-term from FI

IPC-FI-CPC scheme parallel viewer (concordance)

☆ Scheme parallel viewer —concordance version— [normal ver.](#)

IPC: Sample: G06F3 or G06F3/ or G06F3/00 or G06F3/02 etc... [help](#)

IPC: ☐ JP ☒ EN ☐ Both ☐ non-display ☐ symbol only FI dot pattern: ☒ pattern1 ☐ pattern2
FI: ☐ JP ☒ EN ☐ Both ☐ non-display Display IPC level only: ☒ Off ☐ On
ECLA: ☐ EN ☐ JP ☐ Both ☒ non-display
CPC: ☐ EN ☐ JP ☐ Both ☒ non-display

**H04M1/02:
Constructional features
of telephone sets**

Select IPC and input symbol

Select IPC and FI

IPC	IPC	FI
	H04M 1/00 V	2783 docs 5K127 HB
	H04M 1/00 Q	624 docs 5K127 HB
	H04M 1/00 Z	793 docs 5K127 HB
H04M 1/02	Constructional features of telephone sets	63103 docs
	H04M /02	232 docs 5K023 HB
	H04M /02 A	3239 docs 5K023 HB
	H04M /02 B	425 docs 5K023 HB
	H04M /02 C	16530 docs 5K023 HB
	H04M /02 D	159 docs 5K023 HB
	H04M /02 E	210 docs 5K023 HB
	H04M /02 F	89 docs 5K023 HB
	H04M /02 G	758 docs 5K023 HB
	H04M /02 H	314 docs 5K023 HB
	H04M /02 J	267 docs 5K023 HB
	H04M /02 Z	730 docs 5K023 HB
H04M 1/03	Constructional features of telephone transmitters or receivers, e.g. telephone hand-sets	8660 docs
	H04M	185 docs 5K023 HB

FI to F-term (theme code) concordance

http://www.jpo.go.jp/cgi/cgi-bin/search-portal/narabe_tool_e/narabe_con_e.cgi

This screen shows the F-term list of the theme "3E067".

3E067		Package bodies							
		B65D67/00-79/02;81/18-81/30@Z;81/38-81/38@Z							
AA	AA00	This screen shows the F-term list of the theme "3E067".							
	COMMODITY CONFIGURATIONS FOR PACKAGED OBJECTS								
AB	AB00								
	NAMES OF COMMODITIES FOR PACKAGED OBJECTS								
BB	BB00								
	COMPOSITION OF UNIT, INTERIOR AND EXTERIOR CONTAINERS OR WRAPPING								

		This screen shows the F-term list of the theme "3E067".							
	BA00	BA01	BA02	BA03	BA04	BA05	BA06		
	TYPES OF UNIT, INTERIOR AND EXTERIOR CONTAINERS OR WRAPPING MATERIALS	Rigid containers	Integrated molded containers	Bottle-type containers	Cans	Boxes	Cardboard boxes		
					BA14	BA15			
					Card containers	Cards, sheet-like materials and pasteboard			
					BA24	BA25	BA26		
					Web-like configurations	Configurations with concave elements	Configurations having multiple concave elements		
		BA31	BA32	BA33	BA34	BA35	BA36		
		Configurations wrapped by means of two or more wrapping materials	Configurations using at least one blank	Configurations with concave elements	Configurations having multiple concave elements	Configurations having concave elements on both wrapping materials	Configurations with uneven processing		
	BB00	BB01	BB02	BB03	BB04	BB05	BB06		
	COMPOSITION OF UNIT, INTERIOR AND EXTERIOR CONTAINERS OR WRAPPING	Paper	Cardboard	Materials with processed surfaces (chemical paper and synthetic	Cellophane	Cloth	Non-woven cloth		

click on viewpoint
hyperlink to see
additional codes

* * F-term Theme of Additional Code Selection * *

TOP BACK NEXT

3E067 Package bodies

3E078 Machines for manufacturing paper-making processes

3E096 Packaging of fragile

3G066 Fuel injection equipment

3G091 Exhaust gas after treatment

3G092 Output control and control of special type engine

3G301 Electrical control of the air and fuel supply to internal combustion engines

3J552 Control of transmission device

4B034 Paste products from fish meats

4B044 Manufacturing of cigarettes and

4B050 Enzymes and modification thereof

4B065 Microorganisms and culturing processes

4C076 Medicinal preparations

4C081 Materials for medical uses

4C083 Cosmetics

4C084 Medicines that contain protein

4D006 Separation using semi-permeable

4D048 Waste gas treatment by catalysis

click on theme
code to display
additional codes

THEME CODE		THEME NAME	
3E067		Package bodies	
VIEWPOINT	DESCRIPTION	ADDITIONAL CODE	
BA	TYPES OF UNIT, INTERIOR AND EXTERIOR CONTAINERS OR WRAPPING MATERIALS	A: Simple containers B: Inner containers C: Outer containers	
BB	COMPOSITION OF UNIT, INTERIOR AND EXTERIOR CONTAINERS OR WRAPPING MATERIALS		
BC	CONFIGURATIONS OF UNIT, INTERIOR AND EXTERIOR CONTAINERS OR WRAPPING MATERIALS		

MENU

HELP

[TOP](#) [BACK](#) [NEXT](#) [Revision Information](#) (Ja)

**** FI (List Indication) ****

This screen shows all FIs contained in the main group "H04W4/00".

Click on a subgroup after you select Indication.
Refer to HELP for the details of the Indication.

Indication Type ☒ List ☐ Target ☐ The same hierarchy

- [4/00](#) (Not Translated)
 - 110 (Not Translated)
 - 111 (Not Translated)
- [4/02](#) (Not Translated)
 - 110 (Not Translated)
 - 130 (Not Translated)
 - 150 (Not Translated)
- [4/04](#) (Not Translated)
 - 110 (Not Translated)
 - 111 (Not Translated)
 - 113 (Not Translated)

170 (Not Translated)

5K067

5K067

5K067

5K067

5K067

5K067

5K067

5K067

5K067

5K067

5K067

Note: some FI schemes are not translated (refer to the Japanese version of FI schemes instead)

English translations of recently revised FI may be delayed.

[メニュー](#)[ヘルプ](#)[先頭](#)

Japanese FI scheme of H04W

＊ ＊ FI(一覧表示) ＊ ＊

この画面は、メイングループH04W4/00内の「FI」を全て表示しています。(CC:コンコードانس、HB:FIハンドブック)

・表示種別を変更する場合は表示種別を選択後、サブグループまたはHBをクリックしてください。表示種別の違いはヘルプを参照して下さい

表示種別 ☒ 一覧表示 ☐ ターゲット表示 ☐ 同階層表示

・[4/00](#) 無線通信ネットワークに特に適合するサービスまたは設備[2009. 01]

110 ・複数のネットワークを協働させるもの

111 ・複数のネットワークを同時に使用するもの

・[4/02](#) ・ユーザまたは端末の位置を利用したサービス[2009. 01]

110 ・地域情報サービス

130 ・携帯端末を使った道案内[ナビゲーション]

150 ・位置管理; 通話相手の位置表示

・[4/04](#) ・専用の環境, 例. ビル, 車[2009. 01]

110 ・自動車

111 ・路車間

113 ・車車間

115 ・車内通信

130 ・列車

150 ・その他の乗り物

170 ・商品, 物品管理

190 ・センサー情報の収集のためのもの

・[4/06](#) ・選択的配信または放送; ユーザグループ

[5K067](#) [CC](#) [HB](#)

[5K067](#) [CC](#) [HB](#)

[5K067](#) [CC](#) [HB](#)

[5K067](#) [CC](#) [HB](#)

[5K067](#) [CC](#) [HB](#)

[5K067](#) [CC](#) [HB](#)

[5K067](#) [CC](#) [HB](#)

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[5K067](#) [CC](#) [HB](#)

[5K067](#) [CC](#) [HB](#)

[5K067](#) [CC](#) [HB](#)

[5K067](#) [CC](#) [HB](#)

[5K067](#) [CC](#) [HB](#)

TIP: copy&paste URL of FI scheme into translation engine!

☆ Scheme parallel viewer —concordance version—

[normal ver.](#)

IPC Disp

Japanese FI scheme of H04W

IPC: ☐ JP ☒ EN ☐ Both ☐ non-display ☐ symbol only
 FI: ☐ JP ☐ EN ☒ Both ☐ non-display
 ECLA: ☐ EN ☐ JP ☐ Both ☒ non-display
 CPC: ☐ EN ☐ JP ☐ Both ☒ non-display

FI dot pattern: ☒ pattern1 ☐ pattern2
 Display IPC level only: ☒ Off ☐ On
 IPC doc number: ☒ On ☐ Off
 FI doc number: ☒ On ☐ Off
 CPC doc number: ☒ On ☐ Off

H04W 4/00	Services or facilities specially adapted for wireless communication networks	25359docs	H04W 4/00	無線通信ネットワークに特に適合するサービスまたは設備[2009.01]	(Not Translated)	353docs	5K067	HB
D 定			H04W 4/00 110	複数のネットワークを協働させるもの	(Not Translated)	482docs	5K067	HB
			H04W 4/00 111	複数のネットワークを同時に使用するもの	(Not Translated)	256docs	5K067	HB
H04W 4/02	Services making use of the location of users or terminals	21128docs	H04W 4/02	ユーザまたは端末の位置を利用したサービス[2009.01]	(Not Translated)	1601docs	5K067	HB
D 定			H04W 4/02 110	地域情報サービス	(Not Translated)	1914docs	5K067	HB
							5K067	HB
							5K067	HB
H04W	in a dedicated environment, e.g. buildings or vehicles	8090docs	H04W	専用の環境、例、ビル、	(Not Translated)	2308docs	5K067	HB

TIP: copy&paste URL of FI scheme into translation engine!

Untranslated F-term list

** F-term List **

This screen shows the F-term list of the theme "3K243".

(Remarks)
(Not Translation)

Note: some F-term lists are not translated (refer to the Japanese version of F-term list instead)

3K243		(Not Translation)								
		F21M1/00-15/00;F21P1/00-7/00;F21Q1/00-5/00;F21S1/00-1/00@D;1/00@F-19/00@Z								
AA	AA00	AA01	AA02	AA03	AA04	AA05	AA06		AA08	AA09
	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)		(Not Translation)	(Not Translation)
		AA11	AA12	AA13						
		(Not Translation)	(Not Translation)	(Not Translation)						
AB	AB00	AB01	AB02	AB03	AB04	AB05				
	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)				
AC	AC00	AC01	AC02	AC03	AC04	AC05	AC06	AC07	AC08	AC09
	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)
BA	BA00	BA01	BA02	BA03	BA04	BA05	BA06	BA07	BA08	BA09
	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)
		BA11	BA12							
		(Not Translation)	(Not Translation)							
BB	BB00	BB01	BB02	BB03	BB04	BB05	BB06	BB07	BB08	BB09
	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)
		BB11	BB12	BB13	BB14	BB15	BB16		BB18	BB19
English translations of recently revised F-term may be delayed										
		BC11	BC12	BC13	BC14	BC15	BC16	BC17	BC18	BC19
		(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)	(Not Translation)

English translations of recently revised F-term may be delayed.

Japanese F-term list for theme 3K243

この画面は、Fターム「3K243」をリスト表示しています。

(備考欄)

3K042, 3K060, 3K080, 3K043(一部)テーマ統合(H18)

3K243

非携帯用の照明装置またはそのシステム

照明

F21M1/00-15/00;F21P1/00-7/00;F21Q1/00-5/00;F21S1/00-1/00@D;1/00@F-19/00@Z

AA

AA00

投光装置の用途

AA01

・車両用以外の用途

AA02

AA03

AA04

AA05

AA06

AA07

AA08

・車両用の前照灯

AA09

・二・三輪車の前照灯

AA10

・自転車用の前照灯

AA11

・補助前照灯

AB

AB00

投光装置の共通事項

AB01

・部品の製造に特徴があるもの

AB02

・部品の製造に特徴があるもの

AB03

の

AB04

るもの

AB05

搬送のための工夫

AB06

AB07

AB08

AB09

AB10

AC

AC00

投光装置の灯具のタイプ

AC01

・灯具の形

AC02

・丸形

AC03

・楕円形

AC04

・角形

AC05

・シールドビーム型

AC06

・光源

AC07

・フィラメント素子からなるもの

AC08

・C-6/C-6型式(図面)

AC09

・C-8/C-6型式(図面)

AC10

・H4型式(図面)

BA

BA00

投光装置のハウジング(灯室内は除く)

BA01

・反射器を兼ねたもの

BA02

・反射器とその後部のケーシングからなるもの

BA03

・反射器とケーシングとの結合

BA04

・ケーシング内部の細部

BA05

・ハウジング外面の細部

BA06

・装置の取付、支持部に特徴があるもの

BA07

・各要素全体を覆うケーシングからなるもの

BA08

・ケーシング内部の細部

BA09

・複数のバルブが内蔵されたもの

BA10

・ハウジング外面の細部

BA11

・取手、ハンドルに特徴があるもの

BA12

・装置の取付、支持部に特徴があるもの

BB

BB00

投光装置の反射部

BB01

・単一体の反射器からなるもの

BB02

・反射面の種類に特徴があるもの

BB03

・回転放射物線面であるもの

BB04

・回転双曲線面であるもの

BB05

・回転楕円面であるもの

BB06

・2以上の反射面を組合せたもの

BB07

・光軸の直角方向に反射面が異なるもの

BB08

・光軸方向に反射面が異なるもの

BB09

・多数の一定形状の反射面を全面に配置

BB10

・非反射面を配置したもの

BB11

・2以上の別体の反射器からなるもの

BB12

・主反射面に対する副反射面を有するもの

BB13

・前方を照らすもの

BC

BC00

投光装置の屈折器

BC01

・1つのレンズからなるもの

BC02

・2以上のレンズ素子を有するもの

BC03

・素子の

BC04

BC05

BC06

BC07

BC08

BC09

BC10

・防眩の工夫がなされたもの

information on latest revision of this F-term

TIP: copy&paste URL of F-term list into translation engine!

information on latest revision of this F-term

TIP: copy&paste URL of F-term list into translation engine!

- 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
- Identifying FI/F-term
- Searching with FI/F-term

[Example]

Automobile collision avoidance radar with fixed antenna when curving

IPC: G01S 13/93

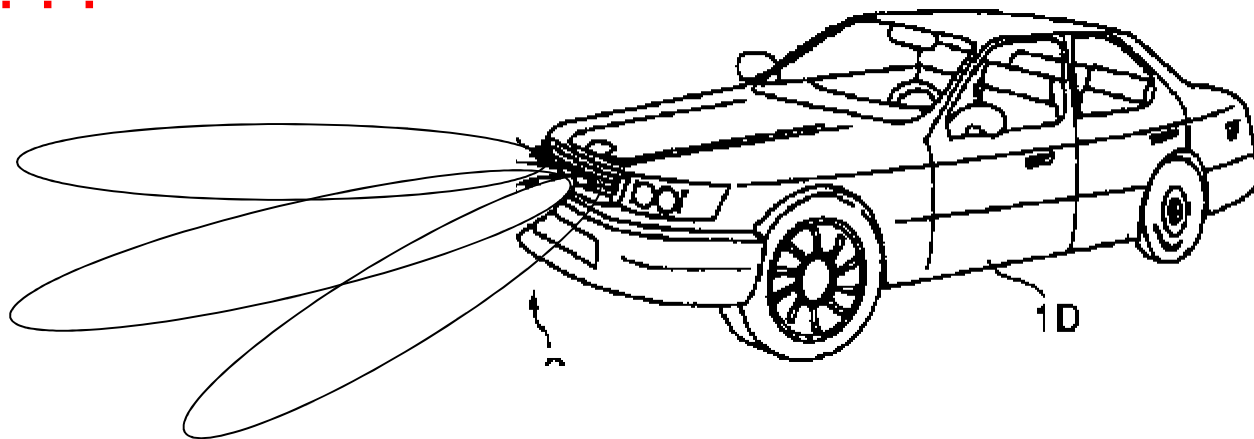
Radar or analogous systems, designed for anti-collision purposes

FI:

Theme:

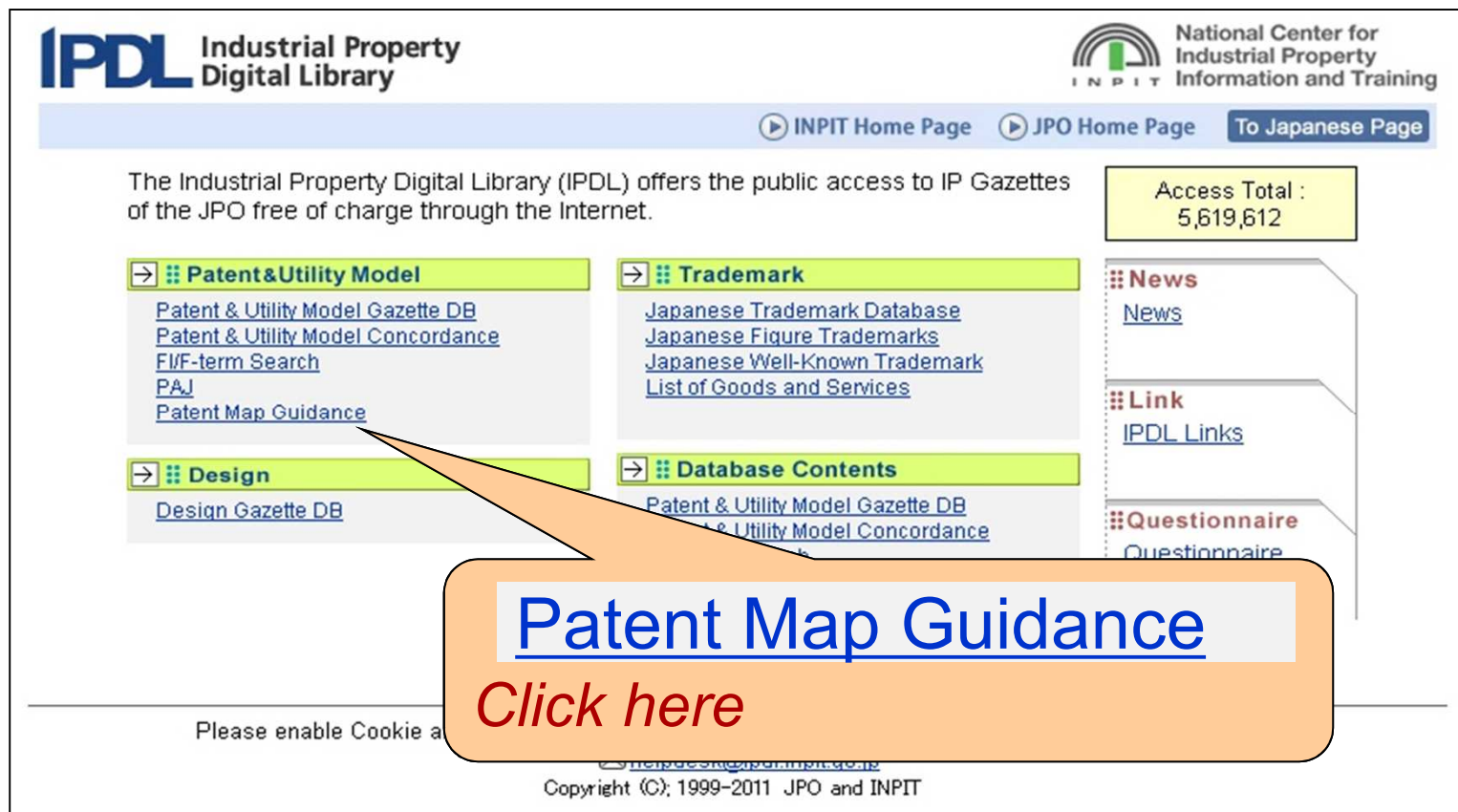
F-term :

???



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- [PAJ](#)
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Patent Map Guidance

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• Inquiry

Click "FI" or "F-term". Or input FI / F-term code to the query box and click Search button.

Query

Search Object

• [FI](#)

e.g. : A61K A61K6 C08L27/06 A61K7/46@A A61K7/46@A

• [F-term](#)

e.g. : 2B 2B396

Indication type selection is effective in the lower hierarchies than

Indication Type ☒ List ☐ Target ☐ The same hierarchy

• IPC-FI Concordance Search

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

Query

IPC code

e.g. : A61K A61K6 A61K6/02 A01N25+B01B

G01S13/93:

Radar or analogous systems, designed for anti-collision purposes

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* * IPC-FI Concordance Search * *

If you want to search again, input IPC code to the query box and click Search button.
Refer to HELP for a detailed input method.

IPC code

e.g. : A61K A61K6 A61K6/02 A01N25+B01B

Search Results 4

Click on a subgroup after you select Indication Type.
Refer to HELP for the details of the Indication Type.

Indication Type ☒ List ☐ Target ☐ The same hierarchy

IPC-FI Search Results 4

IPC	FI
G01S13/93	G01S13/93
G01S13/93	G01S13/93@P
G01S13/93	G01S13/93@S
G01S13/93	G01S13/93@Z

G01S13/93 of IPC has 3 FI subdivisions

Identifying relevant FI/F-terms [example]

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[Following main group](#) [Main group selection](#)
[Revision Information](#) (Japanese only)

* * FI (List Indication) * *

This screen shows all FIs contained in the main group "G01S13/00".

Click on a subgroup after you select Indication Type.
Refer to HELP for the details of the Indication Type.

Indication Type ☒ List ☐ Target ☐ The same hierarchy

- [13/89](#) .. for mapping or imaging [3]
- [13/90](#) .. using synthetic aperture
- [13/91](#) .. for traffic control (G01S 1
P For aircraft e.g. methods
S For boats e.g. navigating
Z Others
- [13/92](#) .. for velocity measurement [3]
- [13/93](#) .. for anti-collision purposes [3]
P For aircraft
S For boats
Z Others
- [13/94](#) .. for terrain-avoidance [3]
- [13/95](#) .. for meteorological use [3]

The relevant FI:
G01S13/93@Z

The relevant F-term
theme code: 5J070

[5J070](#)
[5J070](#)
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[5J070](#)

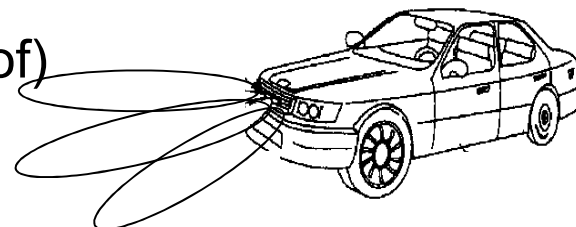
Theme: 5J070 (Radar systems and details thereof)

F-term: AD00 Antennas and polarized waves

└ AD13 . Fixed Antenna

BF00 Collision prevention

└ BF19 . Curved roadway



Subject of theme

Theme Code

5J070

Radar systems and details thereof

G01S7/00-7/42;13/00-13/95

View-points

Theme Code		Radar systems and details thereof									
		G01S7/00-7/42;13/00-13/95									
View-points	AA	AA00 RADAR SYSTEMS IN GENERAL	...	...	FI Coverage			...	...	...	...
	.										
	.										
	AD	AD00 ANTENNAS AND POLARIZED WAVES	...	...	...	...	...	AD13 . Fixed Antenna	...	...	...
	.										
	.										
	BF	BF00 COLLISION PREVENTION	...	...	...	...	...	...	BF19 . Curved roadway	...	...

Advantage of FI/F-term search

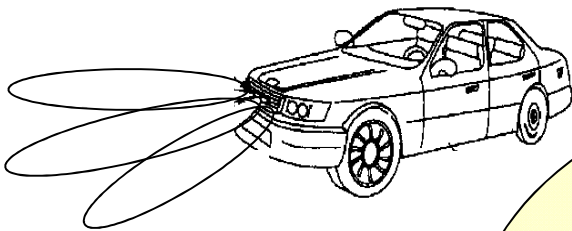
[Example]

Automobile collision avoidance radar with fixed antenna when curving

G01S 13/93@Z

AD13

BF19



G01S 13/93@Z Anti-collision systems
for automobile

BF19

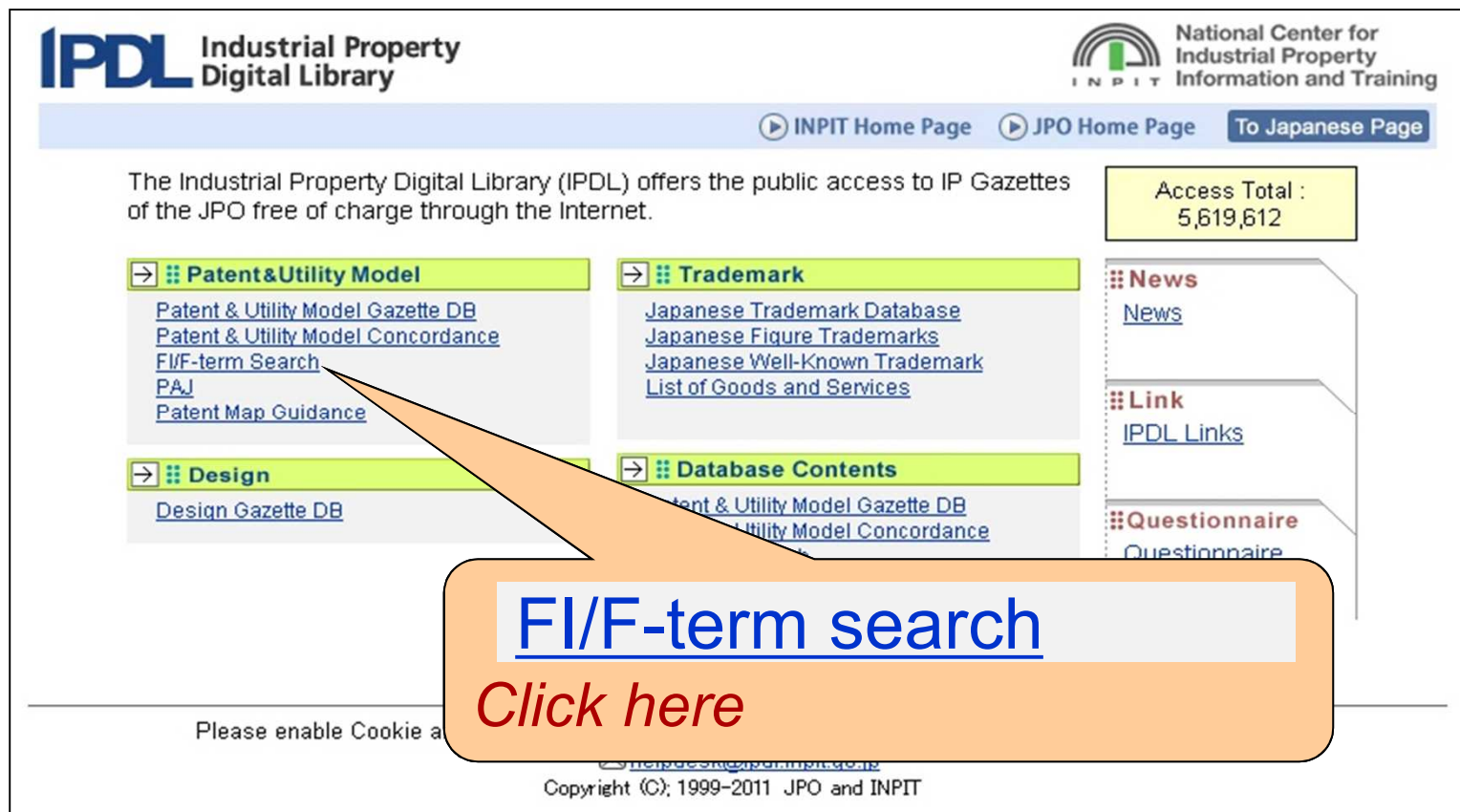
Curved roadway

AD13

Fixed Antenna

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Data Type

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

☒ Patent ☐ Examined utility model registration ☐ Patent specification ☐ Examined utility model specification

Theme --- e.g. 2C001

Enter a F-term Theme in the box below.

5J070

Theme: 5J070

Publication Date --- e.g. 20010101-20031231

You can specify a range of Publication Date to narrow your search.

This choice can be omitted.

From: - To:

Publication Date

FI/F-term/facet --- e.g. AA01+[A63F9/22-ZAA]

Enter the query into the box below, up to 500 letters (essential requirement for searching)

Boolean operators : "+" means 'OR', "*" means 'AND', "-" means 'NOT'.

G01S13/93@Z*AD13*BF19

G01S13/93@Z*AD13*BF19

Display Type

All Pages

Priority of search result display

Check the kind of document, which you want to indicate the Search Result ()

☒ unexamined applications ☐ examined applications

Hit list can be displayed when the search results are within 500.

Search Results 25

Click on "List"

Search List

Boolean Operators:

+ (OR)

* (AND)

- (NOT)

Clear

Details are on

«http://www.ipdl.inpit.go.jp/HELP/tokujitu/fterm_en/1_1frame.html»

DOCUMENT 7/25
DOCUMENT NUMBER
Publication date order

DETAIL

JAPANESE

LEGAL STATUS

6. [JP,07-110900,A\(1995\)](#)
7. [JP,07-072245,A\(1995\)](#)
8. [JP,06-131596,A\(1994\)](#)
9. [JP,06-109836,A\(1994\)](#)
10. [JP,06-083446,A\(1994\)](#)
11. [JP,05-087923,A\(1993\)](#)
12. [JP,04-344487,A\(1992\)](#)
13. [JP,03-111785,A\(1991\)](#)
14. [JP,02-227689,A\(1990\)](#)
15. [JP,02-140682,A\(1990\)](#)
16. [JP,62-130500,A\(1987\)](#)
17. [JP,62-019781,A\(1987\)](#)
18. [JP,61-278775,A\(1986\)](#)
19. [JP,61-162776,A\(1986\)](#)
20. [JP,61-145474,A\(1986\)](#)
21. [JP,61-091581,A\(1986\)](#)
22. [JP,61-023985,A\(1986\)](#)
23. [JP,58-081840,A\(1983\)](#)
24. [JP,55-138670,A\(1980\)](#)
25. [JP,53-020789,A\(1978\)](#)

BACK

NEXT

(11)Publication number : 07-072245

(43)Date of publication of application : 17.03.1995

(51)Int.Cl. G01S 13/93

B60R 21/00

(21)Application number : 05-220108

(71)Applicant : TOYOTA AUTOM LOOM WORKS LTD

(22)Date of filing : 03.09.1993

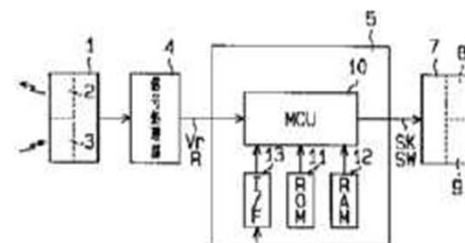
(72)Inventor :
SUZUKI ISAO
YOKOTA KAZUNORI
OGAMI SHINGO

(54) **CAR-MOUNTED COLLISION-PREVENTION WARNING DEVICE**

(57)Abstract:

PURPOSE: To generate a warning at the relative distance matching the driver's sensation.

CONSTITUTION: An antenna part 1 is provided with a transmitting part 2 for transmitting electromagnetic waves and a receiving parts 3 for receiving the electromagnetic waves reflected from forward obstacles. The received signal is outputted into a signal processing part 4. In the signal processing part 4, a relative distance R to a preceding vehicle and a relative speed Vr between own vehicle and the preceding vehicle are operated on the basis of the input signals. The results are outputted into an MCU 10. A vehicle speed sensor 6 measures the vehicle speed V1 and outputs the speed into the MCU 10. A ROM 11 stores a two-dimensional map, the deceleration in response to the relative distance R and the free running time are



result list of
publication numbers

FI/F-term search via IPDL

DOCUMENT 7/25
DOCUMENT NUMBER
Publication date order

7. JP,07-072245,A(1995)
8. JP,06-131596,A(1994)
9. JP,06-109836,A(1994)
10. JP,06-083446,A(1994)
11. JP,05-087923,A(1993)
12. JP,04-344487,A(1992)
13. JP,03-111785,A(1991)
14. JP,02-227689,A(1990)
15. JP,02-140682,A(1990)
16. JP,62-130500,A(1987)
17. JP,62-019781,A(1987)
18. JP,61-278775,A(1986)
19. JP,61-162776,A(1986)
20. JP,61-145474,A(1986)
21. JP,61-091581,A(1986)
22. JP,61-023985,A(1986)
23. JP,58-081840,A(1983)
24. JP,55-138670,A(1980)
25. JP,53-020789,A(1978)

BACK NEXT
MENU SEARCH
HELP

JAPANESE [JP,07-072245,A]

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

* NOTICES *

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1.This document has been translated by computer. So the translation may not reflect the original precisely.
2.**** shows the word which can not be translated.
3.In the drawings, any words are not translated.

CLAIMS

[Claim(s)]
[Claim 1]A speed detection means which detects a and a relative-distance detection means to detect distance with an obstacle which is ahead, A travel s relative velocity which were detected [aforementioned detection means to detect relative velocity with an distance calculating means which calculates safe di running time and deceleration, In an Alert & Collision System for mount which provided a comparison me the aforementioned safe distance with a relative di alarm signal output means which output an alarm si comparison result of the aforementioned compariso

Drawing selection Representative drawing ▾

[Translation done.]

DOCUMENT 7/25
DOCUMENT NUMBER
Publication date order

1. JP,11-344550,A(1999)
2. JP,11-344559,A(1999)
3. JP,11-094943,A(1999)
4. JP,07-234277,A(1995)
5. JP,07-129900,A(1995)
6. JP,07-110900,A(1995)
7. JP,07-072245,A(1995)
8. JP,06-131596,A(1994)
9. JP,06-109836,A(1994)
10. JP,06-083446,A(1994)
11. JP,05-087923,A(1993)
12. JP,04-344487,A(1992)
13. JP,03-111785,A(1991)
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15. JP,02-140682,A(1990)
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17. JP,62-019781,A(1987)
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19. JP,61-162776,A(1986)
20. JP,61-145474,A(1986)
21. JP,61-091581,A(1986)
22. JP,61-023985,A(1986)
23. JP,58-081840,A(1983)
24. JP,55-138670,A(1980)
25. JP,53-020789,A(1978)

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HELP

(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7-72245
(49) 公開日 平成7年(1995)3月17日

(51) Int. Cl.⁶ 識別記号 片内整理番号 F I 技術表示番号
G 0 1 S 13/85 C 9B4-3D G 0 1 S 13/ 93 Z
B 6 0 R 21/00

(21) 出願番号 特願平5-220106 (27) 出願人 000003218
株式会社豊田自動機製作所
豊田自動機製作所内
(72) 発明者 鈴木 功
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豊田自動機製作所内
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豊田自動機製作所内
(71) 発明人 鈴木 功 鈴木 和彦 大上 新吾

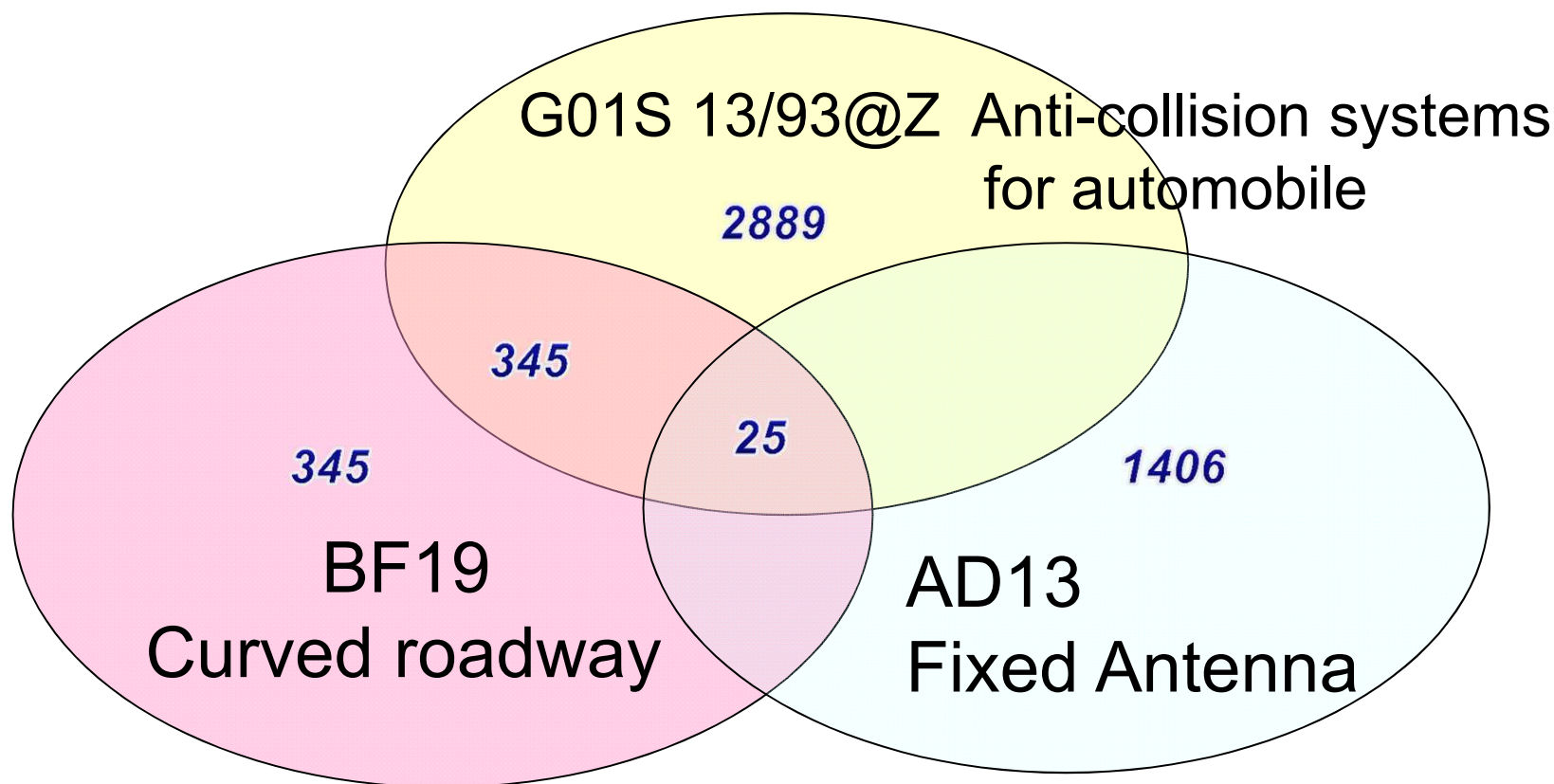
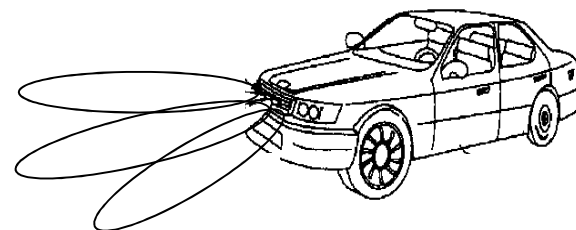
JP,07-072245,A STANDARD ZOOM-UP ROTATION No Rotation REVERSAL
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[Search query]

G01S13/93@Z and ~~AD13~~ and BF19

FI

F-term



Thank you !
