

FI and F-term

- Japanese Classification Systems -

Japan Patent Office

1. Overview
2. File Index (FI)
3. File forming Term (F-term)
4. Utilization of FI and F-term
5. Classifying process

1. Overview

- Patent Applications to the JPO
- Overview of patent classification systems

2. File Index (FI)

3. File forming Term (F-term)

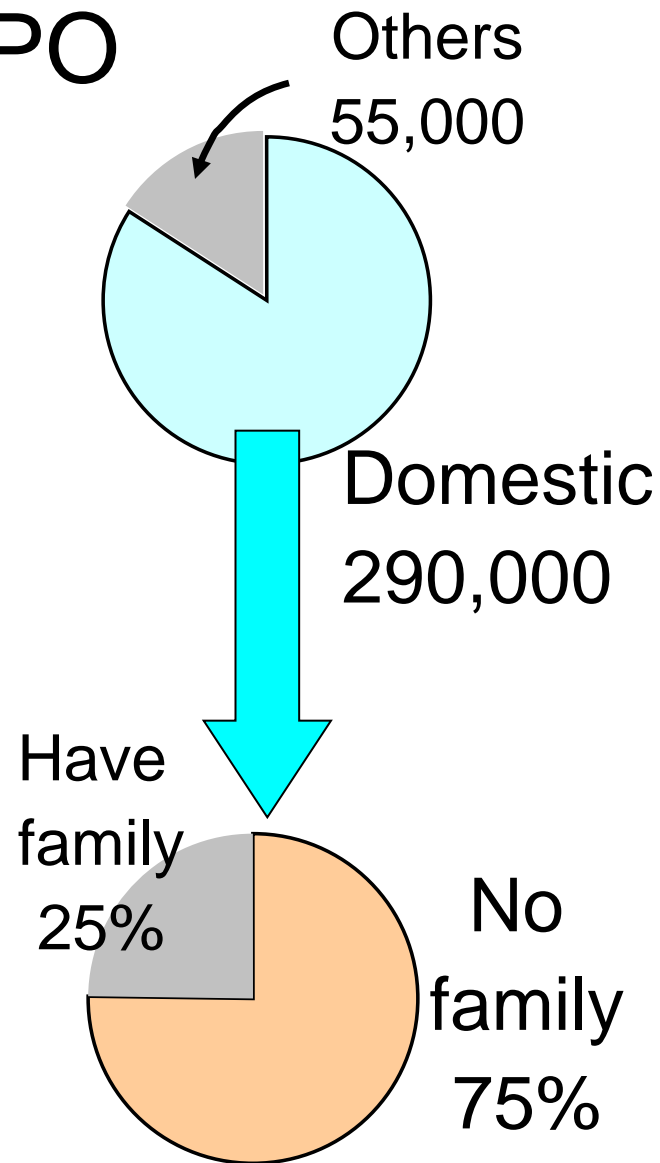
4. Utilization of FI and F-term

5. Classifying process

Patent applications to the JPO

- Over 300,000 applications / year (not including PCT applications)
- 36 million documents as total
- Most of them are domestic (originate in JP)
- 75% of domestic applications have **no** family application

Searching JP documents is important!



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/ 360K	- 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

1. Overview

2. File Index (FI)

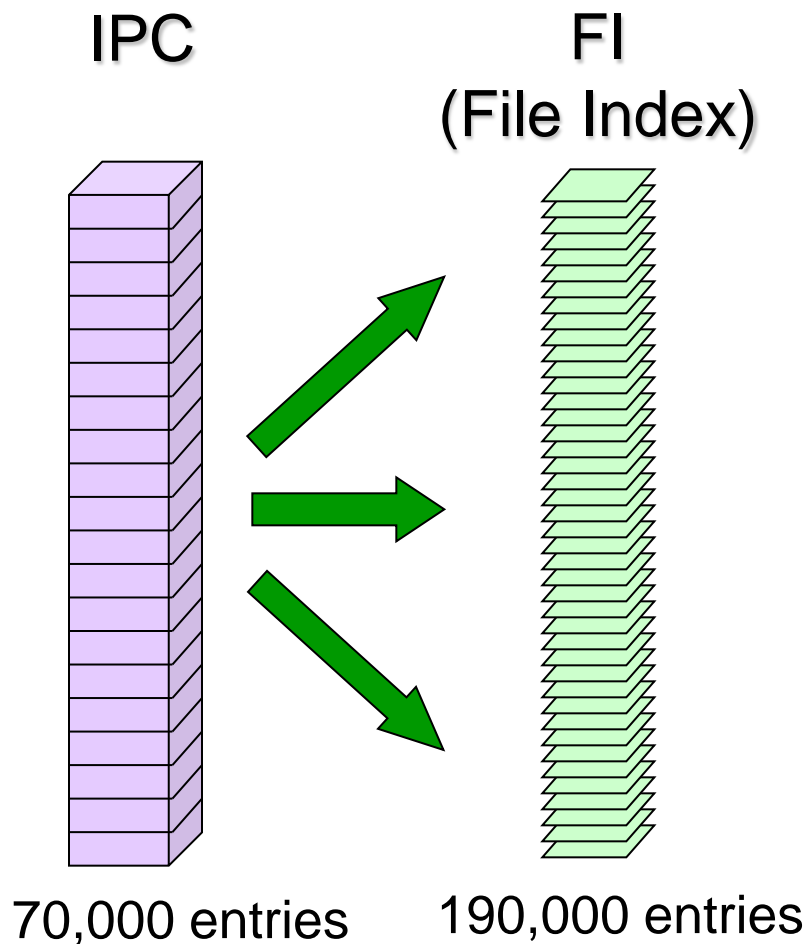
- About FI
- Scheme parallel viewer

3. File forming Term (F-term)

4. Utilization of FI and F-term

5. Classifying process

[Features]



- Subdivision of IPC
- Similar to CPC main trunk (160,000 entries)
- 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)
- 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 with 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

JP 2007-000000 A 2007.1.1

(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2007-000000

(P2007-000000A)

(43) 公開日 平成19年1月1日 (2007.1.1)

(51) Int. Cl.

G 0 1 B 12/345 (2006.01)
G 0 2 C 9/87 (2006.01)
G 0 1 B 67/89 (2006.04)
G 0 1 B 12/345 (2006.07)
G 0 1 B 34/56 (2007.01)

F I

G 0 1 B 12/34 1 0 1 B
 G 0 2 C 9/87 Z N A
 G 0 1 B 67/89 Z
 G 0 1 B 12/345 U
 G 0 1 B 34:56

テーマコード (参考)

2 E 1 1 0
 3 B 0 0 5

審査請求 有 請求項の数 2 Q L 外国語出願 公開請求 (全 7 頁) 最終頁に続く

**Front page of a Japanese
 patent application publication**

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.

JP EN Both non-display symbol
 FI EN Both non-display
 ECLA: EN JP Both non-display
 ICO: EN JP Both non-display
 CPC: EN JP Both non-display

display non-display
 pattern1 pattern2
 On Off
 On Off
 On Off

•Select scheme and input symbol

•IPC	•FI	•CPC
<p>H02B 1/04</p> <ul style="list-style-type: none"> Mounting thereon of switches or of other devices in general, the switch or device having, or being without, casing <p>8652docs</p>	<p>H02B 1/04</p> <ul style="list-style-type: none"> Mounting thereon of switches or of other devices in general, the switch or device having, or being without, casing <p>14docs</p> <p>5G016 HB</p>	<p>H02B1/04</p> <ul style="list-style-type: none"> Mounting thereon of switches or of other devices in general, the switch or device having, or being without, casing <p>1244docs</p>
	<p>H02B 1/04 A</p> <ul style="list-style-type: none"> related to mounting of members such as switches (including related metal pieces) (fuses or current transformers 1/18) <p>142docs</p> <p>5G016 HB</p>	<p>H02B1/041</p> <ul style="list-style-type: none"> { Mechanical coupling for side-by-side mounted apparatus } <p>358docs</p>
	<p>H02B 1/04 B</p> <ul style="list-style-type: none"> Mounted by penetrated into members <p>213docs</p> <p>5G016 HB</p>	<p>H02B1/042</p> <ul style="list-style-type: none"> { Mounting on perforated supports by means of screws or locking members } <p>260docs</p>
	<p>H02B 1/04 C</p> <ul style="list-style-type: none"> related to mounting bodies or units with multiple different switches <p>298docs</p> <p>5G016 HB</p>	<p>H02B1/043</p> <ul style="list-style-type: none"> { the perforated support having openings distributed according to a pattern } <p>135docs</p>
	<p>H02B 1/04 D</p> <ul style="list-style-type: none"> related to mounting on mosaic panels (H 02 B 15/04 take precedence.) <p>70docs</p> <p>5G016 HB</p>	
	<p>H02B 1/04 E</p> <ul style="list-style-type: none"> characterised by mounting metal pieces (A, C take precedence.) <p>247docs</p> <p>5G016 HB</p>	
	<p>H02B 1/04 Z</p> <ul style="list-style-type: none"> Others <p>145docs</p> <p>5G016 HB</p>	
<p>H02B</p> <ul style="list-style-type: none"> Mounting through openings <p>1631docs</p>		<p>H02B1/044</p> <ul style="list-style-type: none"> Mounting through openings <p>1465docs</p>

FI Hand book is Japanese only

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 ▾ H01B13/012 Sample: G

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 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

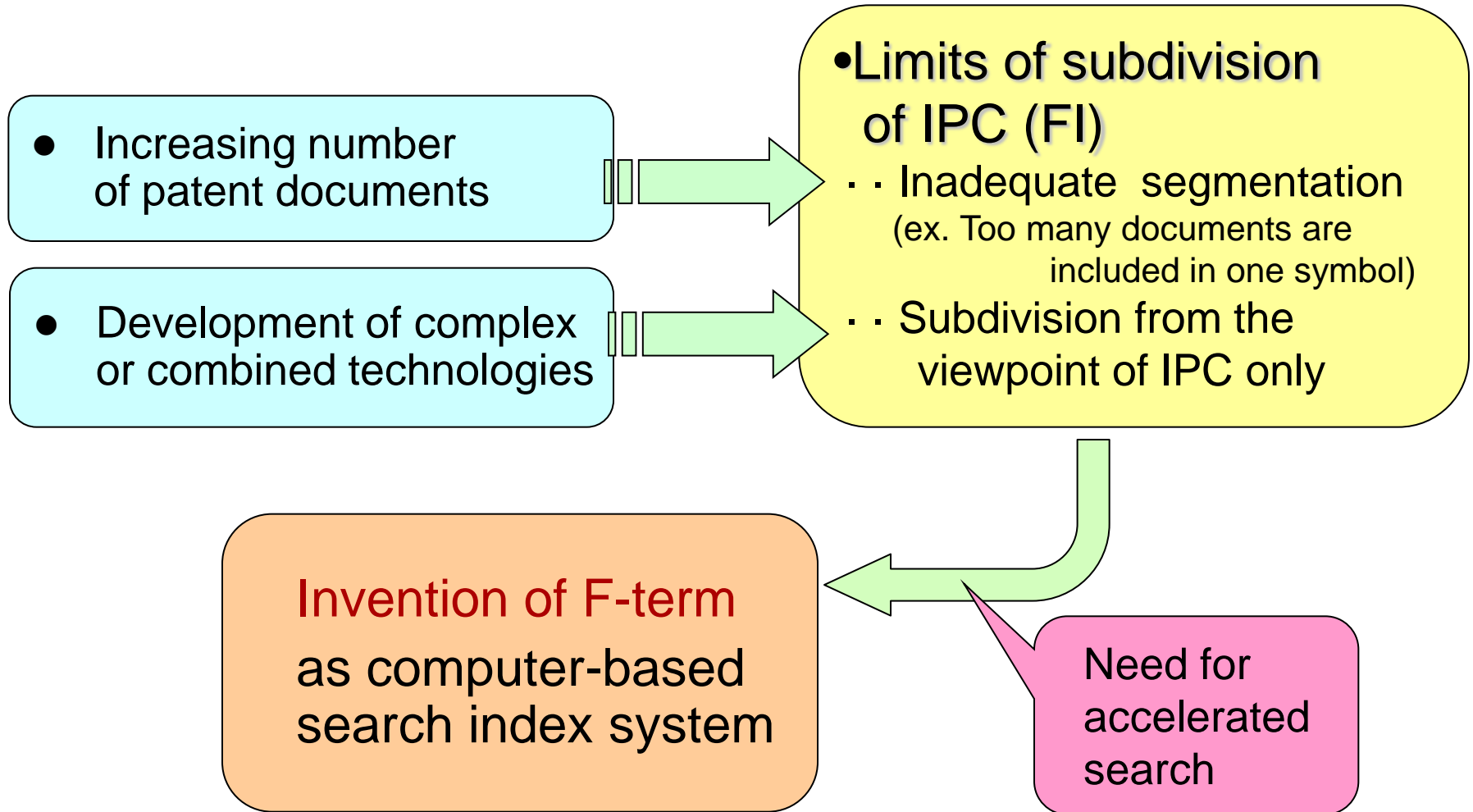
•CPC

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:HE	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:HE	H01B13/01209 ** [Details] 165docs
	H01B 13/00 513 B Characterised by Tying cables 241docs SG323:HE	H01B13/01218 ** [the wires being disposed by hand] 27docs
	H01B 13/00 513 C Characterised by wiring beads 50docs SG323:HE	H01B13/01227 *** [using a layout board] 130docs
	H01B 13/00 513 D Characterised by the use of wiring bases 402docs SG323:HE	H01B13/01236 ** [the wires being disposed by machine] 55docs
	H01B 13/00 513 Z Others 651docs SG323:HE	H01B13/01245 *** [using a layout board] 178docs
		H01B13/01254 * [Flat-harness manufacturing] 200docs
		H01B13/01263 ** [Tying, wrapping, binding, lacing, g. 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:HE	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:HE	H01B13/0162 ** [of the central conductor] 64docs

1. Overview
2. File Index (FI)
- 3. File forming Term (F-term)**
 - Background of F-term
 - Relationship between FI and F-term
 - Search by F-term
4. Utilization of FI and F-term
5. Classifying process

Background of F-term

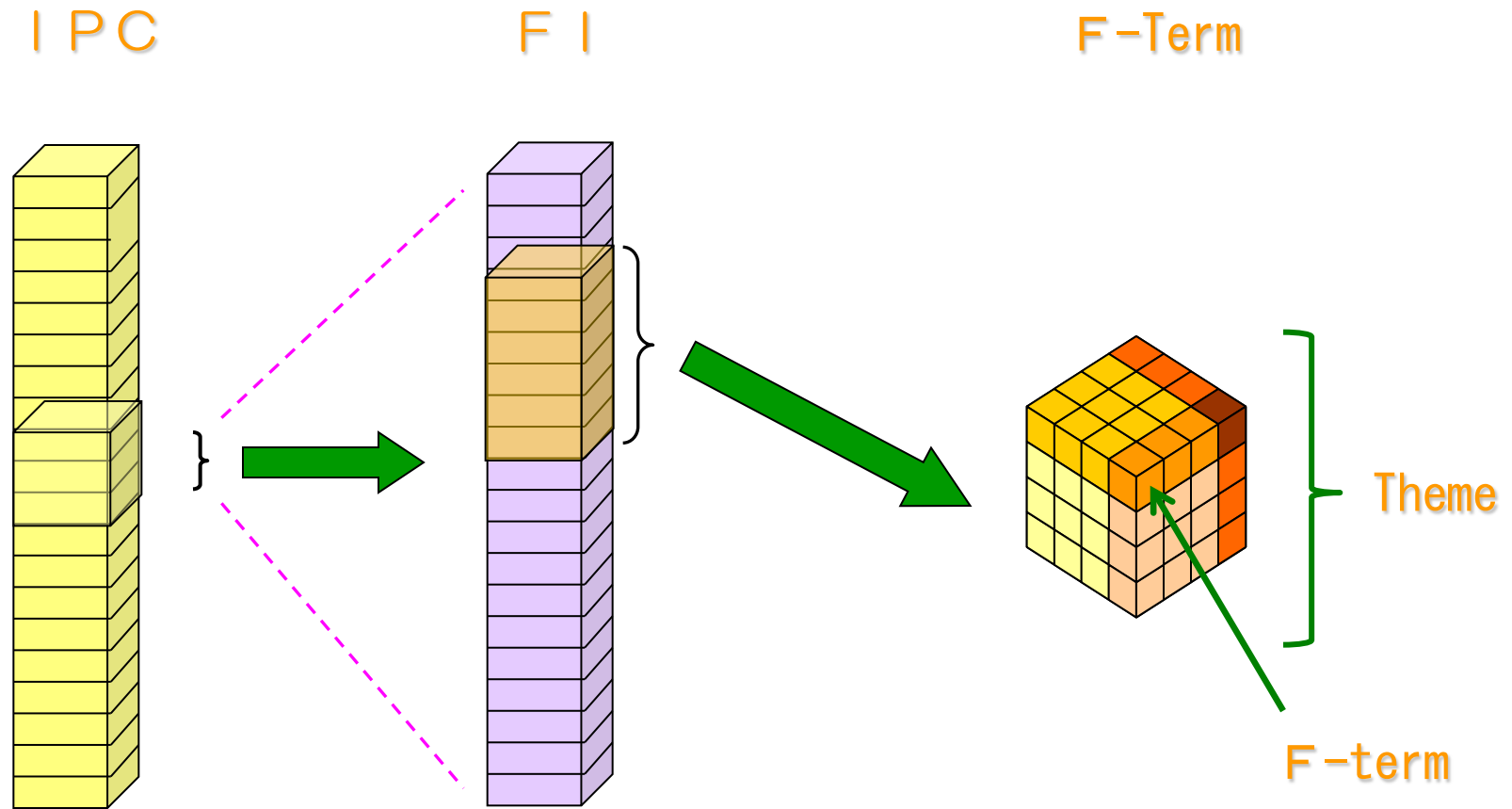


What is F-term indexing system?

F-term indexing system

- In the F-term indexing system, entire technical area is divided into small areas called “**theme**” and patent documents are analyzed in each “theme”.
- Each “theme” has “**F-terms**”, which are search keys.
- The F-term indexing system is based on **multiple viewpoints** differing from those in IPC.

Relationship among IPC, FI and F-term



Relationship among 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 (F-term theme)										Theme 2 (FI theme)					Theme 3 (F-term theme)						Theme				
1/00A — 1/08		AA00	AA01	AA02	AA03	AA04							2/04A	AA00	AA01	AA02	AA03								F-term
		BB00	BB01	BB02									2/04B	BB00	BB01	BB02									
		CC00	CC01	CC02	CC03								2/04C	CC00	CC01	CC02	CC03	CC04							
		DD00	DD01	DD02	DD03								—	—	—	—									

- **Theme** is based on FI
- 1,800 themes out of 2,600 have F-terms

Theme

Concept of “Theme”

- A certain technical area
(Total **2,600 Themes**)
- The range of a theme is defined by FIs (“**FI coverage**”)
- Around 1,800 themes out of 2,600 have F-terms
- A theme is specified by a **theme code** and a **theme name**
→ A theme code is comprised of **5-digits consisting of alphanumeric characters**

Example :

FI coverage : B65B 5/00-5/12

Theme code : 3E003

Theme name : Container packaging and wrapping operation

F-term

Concept of “F-term”

- Search keys which classify prior art documents according to some technical viewpoints under a certain “theme”
- Indications comprised of **2 letters selected from A to Z (called “Viewpoint”)** and **2 numerals selected from 00 to 99**
- Hierarchical structures with dots in the same viewpoint
- **Hierarchical search possible**
- Total; **22,000 Viewpoints & 360,000 F-terms**

Example 3B120

Theme code

AD04

Viewpoint Digit

Term code

Additional Codes

Concept of “additional codes”

- For selected themes only
- Add technical information
- “.(period) + one alphabet or number” at the end

Example 3B120 AD04.X

AD04.Y

AD04.Z

hydrate alumina was added
in intermediate layer
as the additives or filling agents

Theme code : 3B120 (Carpets)

Viewpoint : AD (Additives or filling agents for layers)

Term code : AD04 (Hydrated alumina)

Additional codes : X (Surface layers)

Y (Intermediate layers)

Z (Rear surface layers)

location of the layer in which
additives or filling agents
are added

What is F-term ?

Sample of F-term List

Theme Code

List	Description
4L002	KNITTING OF FABRIC
	D04B1/00-1/28;21/00-21/20@Z

Subject of theme

FI Coverage

Viewpoint	F-term											FI Cover Range	
AA	AA00	AA01	AA02	AA03	AA04	AA05	AA06	AA07	AA08				D04B
	MATERIALS USED IN YARN	. Natural fibers	. . Cotton	. . Wool	. . Silk	. Synthetic resins	. . Polyamides	. . Polyesters	. . Polyacrylics				1/00-1/28;21/00-21/20@Z
AB	AB00	AB01	AB02	AB03	AB04	AB05							
	FORMS OF YARN	. Short-fiber yarns (e.g., spun yarns)	. Long-fiber yarns	. Hard-twist yarns	. Processed yarns	. Conjugate fiber yarns							
AC	AC00	AC01	AC02	AC03	AC04	AC05	AC06	AC07					
	CHARACTERISTICS OF YARNS	. Elasticity (i.e., stretchability)	. Expandability	. Conductivity	. Fusibility	. Heat fusibility	. Colors	. Thickness of yarns or fibers					

View point

Search Target:
Heat resistant Cotton Knit Groves

Viewpoint

4L002		KNITTING OF FABRIC									
		D04B1/00-1/28;21/00-21/20@Z									
AA	AA00	AA01	AA02	AA03	AA04	AA05	AA06	AA07	AA08		D04B1/00-1/28;21/00-21/20@Z
	MATERIALS USED IN YARN	Materials	Wool	Wool	Synthetic fibers	Styrenes	Acrylates	Polycarbonate	Polyacrylates		
AB	AB00	AB01	AB02	AB03	AB04	AB05					
	FORMS OF YARN	. Short-fiber yarns (e.g., spun yarns)	. Long-fiber yarns	. Hard-twist yarns	. Processed yarns	. Conjugate fiber yarns					
AC	AC00	AC01	AC02	AC03	AC04	AC05	AC06	AC07			
	CHARACTERISTICS OF YARNS	. Elasticity (i.e., stretchability)	Expandability	. Conductivity	. Fusibility	. Heat fusibility	. Colors	. Thickness of yarns or fibers			
BA	BA00	BA01	BA02	BA03	BA04	BA05	BA06				
	WEFT KNITTING 1	. Plain stitching	. Rib stitching	. Garter stitching	. Tucking	. Welting	. Inlaying				
BB	BB00	BB01	BB02	BB03	BB04	BB05					
	OTHER WEFT KNITTING 2	. Multi-level stitching (e.g., interlock stitches)	. Braided stitching	. Openwork	. Pile stitching	. Removal of needles					
CA	CA00	CA01	CA02	CA03	CA04						
	WARP KNITTING 1	. Tricots or cords	. Atlas stitching (i.e., Van Dyke)	. Chain stitching (i.e., pillar)	. Inlay stitching (e.g., idle swing)						
CB	CB00	CB01	CB02	CB03	CB04	CB05					
	OTHER WARP KNITTING 2	. Multi-level stitching	. Openwork	. Pile stitching	. Sewing stitching	. Removal of needles					
DA	DA00	DA01	DA02	DA03	DA04	DA05					
	POST-KNITTING TREATMENTS	. Heat treatment	. Raising treatments	. Chemical treatments	. Dyeing	. Alkali treatments					
EA	EA00	EA01	EA02	EA03	EA04	EA05	EA06	EA07	EA08		
	CHARACTERISTICS OF KNIT FABRIC	. Heat resistance	. Permeability	. Hydroscopic characteristics	. Heat resistance	. Durability	. Stretching	. Anti-pilling properties	. Resilience to other fabrics		
FA	FA00	FA01	FA02	FA03	FA04	FA05	FA06		FA09	FA10	
	USES	. Clothes	. Outerwear	. Underwear	. Gloves	. Socks	. Industrial uses		. Tapes (i.e., narrow-width fabrics)	. Detailing (e.g., edgings)	

Viewpoint "AA": Materials Used in Yarn

Viewpoint "EA": Characteristic of Knit Fabric

Viewpoint "FA": Uses

Advantage of F-term ~ Multiple Viewpoint (1)

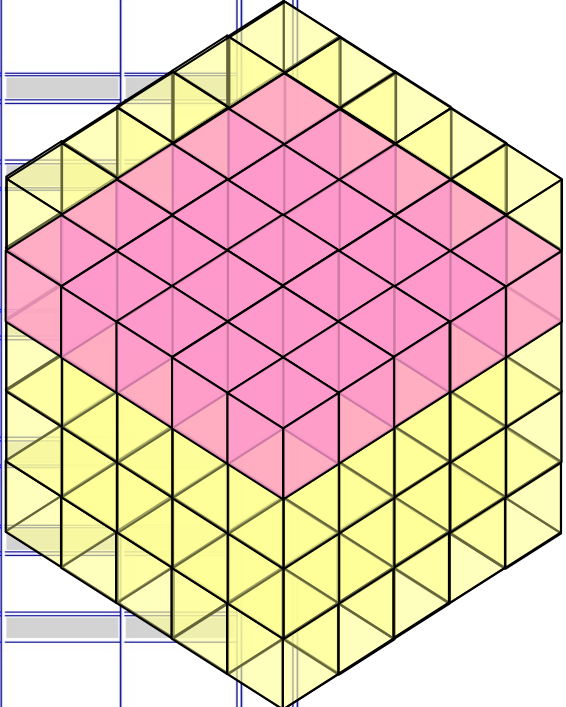
4L002		KNITTING OF FABRIC										FI Cover Range	
Viewpoint		F-term										D04B1/00-1/28;21/00-21/20@Z	
AA	AA00	AA01	AA02	AA03	AA04	AA05	AA06	AA07	AA08				
	MATERIALS USED IN YARN	. Natural fibers	. Cotton	. Wool	. Silk	. Synthetic resins	. Polyamides	. Polyesters	. Polyacrylics				
AB	AB00	AB01	AB02	AB03	AB04	AB05							
	FORMS OF YARN	. Short-fiber yarns (spun yarns)	. Cotton yarn	. Hand-knitted yarns	. Composites								
AC	AC00	AC01	AC02	AC03	AC04	AC05	AC06	AC07					
							. Thickness of yarns or fibers						
CA	CA00	CA01	CA02	CA03	CA04								
	WARP KNITTING 1	. Tricots or cords	. Atlas stitching (i.e., Van Dyke)	. Chain stitching (i.e., pillar)	. Inlay stitching (e.g., idle swing)								
CB	CB00	CB01	CB02	CB03	CB04	CB05							
	OTHER WARP KNITTING 2	. Multi-level stitching	. Openwork	. Pile stitching	. Sewing stitching	. Removal of needles							
DA	DA00	DA01	DA02	DA03	DA04	DA05							
	POST-KNITTING TREATMENTS	. Heat treatment	. Raising treatments	. Chemical treatments	. Dyeing	. Alkali treatments							
EA	EA00	EA01	EA02	EA03	EA04	EA05	EA06	EA07	EA08				
	CHARACTERISTICS OF KNIT FABRICS	. Heat retention	. Air permeability	. Hydroscopic characteristics	. Heat resistance	. Durability	. Stretchability	. Anti-pilling properties	. Resemblance to other fabrics				
FA	FA00	FA01	FA02	FA03	FA04	FA05	FA06						
	USES	. Clothes	. Outerwear	. Underwear	. Gloves	. Stockings	. Industrial uses				. Tapes (i.e., narrow-width fabrics)	. Detailing (e.g., edgings)	

4L002: AA02
 Search target:
 "Cotton knit fabric"

AA: Materials Used in Yarn

AA02: Cotton yarn

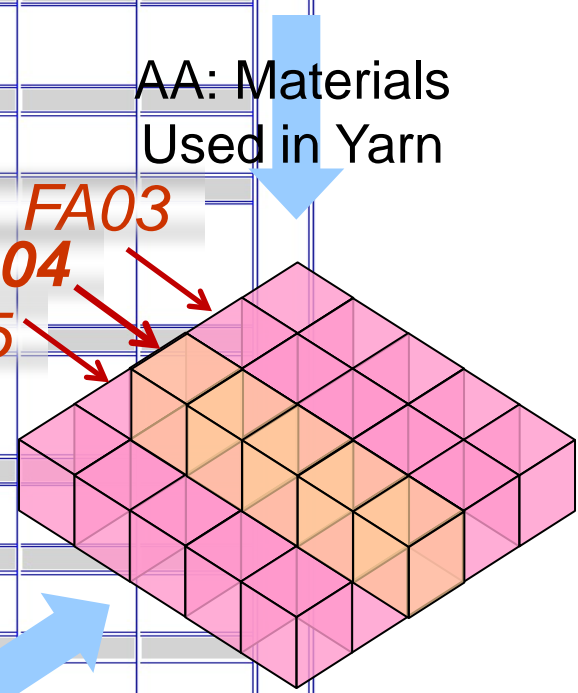
AA01
 AA02
 AA03



Advantage of F-term ~ Multiple Viewpoint (2)

4L002		KNITTING OF FABRIC										FI Cover Range
Viewpoint		F-term										
AA	AA00	AA01	AA02	AA03	AA04	AA05	AA06	AA07	AA08			D04B 1/00- 1/28: 21/00 -21/2 0@Z
	MATERIALS USED IN YARN	. Natural fibers	. Cotton	. Wool	. Silk	. Synthetic resins	. Polyamides	. Polyesters	. Polyacrylics			
AB	AB00	AB01	AB02	AB03	AB04	AB05						
							AC07					
							. Thickness of yarns or fibers					
BB	BB00	BB01	BB02	BB03	BB04	BB05						
	OTHER WEFT KNITTING 2	. Multi-level stitching (e.g., interlock stitches)	. Braided stitching	. Openwork	. Pile stitching	. Removal of needles						
CA	CA00	CA01	CA02	CA03	CA04							
	WARP KNITTING 1	. Tricots or cords	. Atlas stitching (i.e., Van Dyke)	. Chain stitching (i.e., pillar)	. Inlay stitching (e.g., idle swing)							
CB	CB00	CB01	CB02	CB03	CB04	CB05						
	OTHER WARP KNITTING 2	. Multi-level stitching	. Openwork	. Pile stitching	. Sewing stitching	. Removal of needles						
DA	DA00	DA01	DA02	DA03	DA04	DA05						
	POST-KNITTING TREATMENTS	. Heat treatment	. Raising treatments	. Chemical treatments	. Dyeing	. Alkali treatments						
EA	EA00	EA01	EA02	EA03	EA04	EA05	EA06	EA07	EA08			
	CHARACTERISTICS OF KNIT FABRICS	. Retention	. Permeability	. Characteristics	. Resistance	. Durability	. Stretchability	. Anti-pilling properties	. Resilience to other			
FA	FA00	FA01	FA02	FA03	FA04	FA05	FA06		FA09	FA10		
	USES	. Clothes	. Outerwear	. Underwear	. Gloves	. Stockings	. Industrial uses		. Tapes (i.e., narrow-width fabrics)	. Detailing (e.g., edgings)		

4L002: AA02 × FA04
Search target:
"Cotton knit groves"



FA04 .. Groves

FA: Uses

Advantage of F-term ~ Multiple Viewpoint (2)

4L002		KNITTING OF FABRIC										FI Cover Range	
Viewpoint		F-term										D04B1/00-1/28;21/00-21/20@Z	
AA	AA00	AA01	AA02	AA03	AA04	AA05	AA06	AA07	AA08			D04B1/00-1/28;21/00-21/20@Z	
	MATERIALS USED IN YARN	. Natural fibers	. Cotton	. Wool	. Silk	. Synthetic resins	. Polyamides	. Polyesters	. Polyacrylics				
AB	AB00	AB01	AB02	AB03	AB04	AB05							
							AC07						
							. Thickness of yarns or fibers						
BB	BB00	BB01	BB02	BB03	BB04	BB05							
	OTHER WEFT KNITTING 2	. Multi-level stitching (e.g., interlock stitches)	. Braided stitching	. Openwork	. Pile stitching	. Removal of needles							
CA	CA00	CA01	CA02	CA03	CA04								
	WARP KNITTING 1	. Tricots or cords	. Atlas stitching (i.e., Van Dyke)	. Chain stitching (i.e., pillar)	. Inlay stitching (e.g., idle swing)								
CB	CB00	CB01	CB02	CB03	CB04	CB05							
	OTHER WARP KNITTING 2	. Multi-level stitching	. Openwork	. Pile stitching	. Sewing stitching	. Removal of needles							
DA	DA00	DA01	DA02	DA03	DA04	DA05							
	POST-KNITTING TREATMENTS	. Heat treatment	. Raising treatments	. Chemical treatments	. Dyeing	. Alkali treatments							
EA	EA00	EA01	EA02	EA03	EA04	EA05	EA06	EA07	EA08				
	CHARACTERISTICS OF KNIT FABRICS	. Heat retention	. Air permeability	. Hydroscopic characteristics	. Heat resistance	. Durability	. Stretchability	. Antistatic properties	. Resemblance to other fabrics				
FA	FA00	FA01	FA02	FA03	FA04	FA05	FA06	FA07	FA08	FA09			
	USES	. Clothes	. Outerwear	. Underwear	. Gloves	. Stockings	. Industrial uses			. Tapes (i.e., narrow-width fabrics)	. Detailing (e.g., edgings)		

4L002: AA02 × FA04 × EA04
 Search target:
 “Heat resistant cotton knit grove”

AA: Materials Used in Yarn

EA03
EA04
EA05

EA04 .. Heat resistance

FA: Uses

EA: Characteristics of knit fabric

What is F-term ?

Indication of F-term in publication of patent application

(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

(43) 公開日

(51) Int. Cl. F I

HO 1 L 33/02 (2010.01)	HO 1 L 33/00 1 0 0	5 F 1 4 1
HO 1 L 33/56 (2010.01)	HO 1 L 33/00 4 2 4	5 F 1 4 2
HO 1 L 33/22 (2010.01)	HO 1 L 33/00 1 7 2	

テーマコード (参考)

審査請求項の数 8 0 L (全 12 頁)

(21) 出願番号 特願2013-1
(22) 出願日 平成25年6月

(74) 代理人 110000202
新機軸ロケットエンジン特許業務法人

(72) 発明者 梅 徳 日
徳島県南上市上中町岡491番地100

(72) 発明者 鈴木 徳島
徳島県南上市上中町岡491番地100
日亜化学工業株式会社内

F ターム (参考)

5F141	AA31	CA13	CA65	CA76	CB11
	CB36				
5F142	BA32	CA11	CA13	CB07	CD02
	CD16	CD17	CD18	CG03	CG04
	CG05	DB30			

Theme codes

Corresponding themes are assigned automatically

Assigned F-terms

The front page of the Japanese publication of a patent application

F-term Revision

(JPO examiners call F-term revision “F-term maintenance”)

Actuality of F-term Revision

- **Annual implementation** of “F-term revision” activity
- F-term revision in about **20 themes every year**
- **Examiners** who are in charge of the theme **determine the implementation** of F-term revision.

Back-file Reassignment with F-term revision

- Reassignment of revised F-terms to the Japanese patent documents.
- Reassignment takes about 1-5 years.

- Revised F-term list is **available for all documents regardless of publication date** in principal.
- In some F-term themes (about 6% of all F-term themes), revised F-term lists are **available for documents published after “start year in analysis”**.

What is F-term ?

Relationship among IPC, FI, and F-term

IPC: 70,000

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

Theme: 2,600
 F-term Theme: 1,800
 FI Theme : 800

IPC (M ~ Sub-
 FI: 190,000
 ECLA: 120,000
 USPC: 160,000

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

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	A	B	Z	A	B	A	B	Z	A	B	C	Z	A	B	Z

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

Viewpoint: 22,000
 F-term: 360,000

1/00A ~ 1/08	AA00	AA01	AA02	AA03	AA04
	BB00	BB01	BB02		
	CC00	CC01	CC02	CC03	
	DD00	DD01	DD02	DD03	

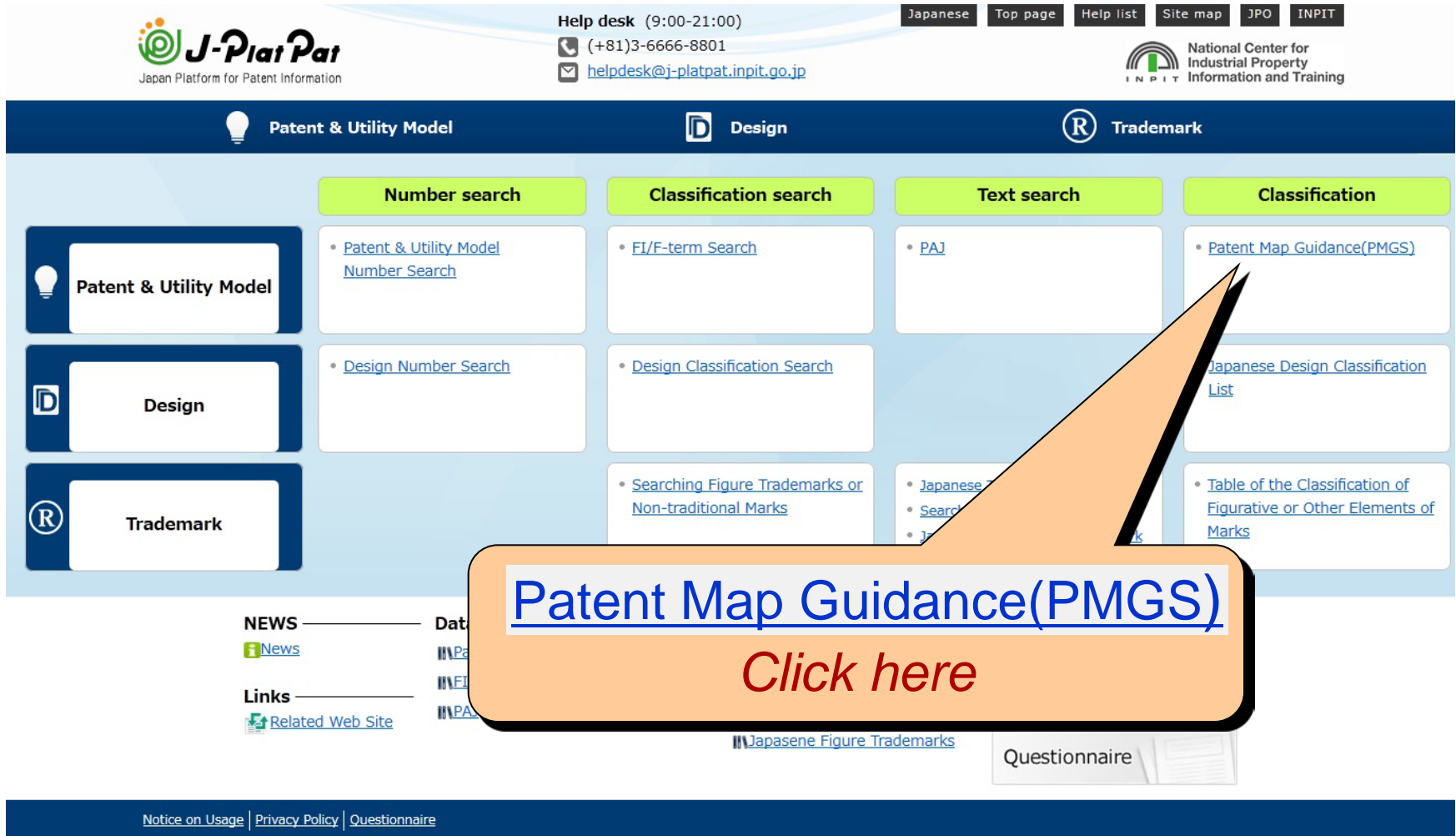
2/04A	AA00	AA01	AA02	AA03	AA04
2/04B	BB00	BB01	BB02		
2/04C	CC00	CC01	CC02	CC03	CC04
---	---	---			

F-Term

1. Overview
2. File Index (FI)
3. File forming Term (F-term)
- 4. Utilization of FI and F-term**
 - Access to FI/F-term Information
 - Searching with FI/F-term
5. Classifying process

J-PlatPat (Japan Platform for Patent information)

URL: <https://www.j-platpat.inpit.go.jp/web/all/top/BTmTopEnglishPage>



The screenshot shows the J-PlatPat website interface. At the top, there is a navigation bar with the J-PlatPat logo, contact information for the help desk (9:00-21:00, (+81)3-6666-8801, helpdesk@j-platpat.inpit.go.jp), and utility links (Japanese, Top page, Help list, Site map, JPO, INPIT). Below this is a main navigation bar with icons for Patent & Utility Model, Design, and Trademark. The main content area is divided into four columns: Number search, Classification search, Text search, and Classification. The Classification column contains a link for Patent Map Guidance (PMGS). A callout box with a pencil icon points to this link, containing the text "Patent Map Guidance(PMGS) Click here".

Help desk (9:00-21:00)
(+81)3-6666-8801
helpdesk@j-platpat.inpit.go.jp

Japanese Top page Help list Site map JPO INPIT

National Center for Industrial Property Information and Training

Patent & Utility Model Design Trademark

Number search Classification search Text search Classification

Patent & Utility Model
Design
Trademark

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

Design
• [Design Number Search](#)

Trademark
• [Searching Figure Trademarks or Non-traditional Marks](#)

Classification
• [FI/F-term Search](#)
• [Design Classification Search](#)
• [Japanese Search](#)

Text search
• [PAJ](#)

Classification
• [Patent Map Guidance\(PMGS\)](#)
• [Japanese Design Classification List](#)
• [Table of the Classification of Figurative or Other Elements of Marks](#)

NEWS
News

Links
Related Web Site

Questionnaire

Notice on Usage | Privacy Policy | Questionnaire

Access to FI/F-term Information

Patent Map Guidance

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

e.g. B22F B22F1 B22F1/00 B22F1/00@A

[Search](#)

F-term ([Classification](#))

Query Screen

F-term List F-term Description

Classification

e.g. 4K018

[Search](#)

Display Type

List Target The same Hierarchy

FI List

• 27/00	Layered products essentially comprising synthetic resin	4F100	HB
	A consisting of a resin having no sub-category, e.g. polybenzimidazol	4F100	HB
	B Only those whose physical property is limited	4F100	HB
	C characterized by adhesion between layers	4F100	HB
	D . characterized by the adhesive	4F100	HB
	E Ornamental or pattern plate	4F100	HB
	F Synthetic paper	4F100	HB
	G Card	4F100	HB
	H Container	4F100	HB
	J Cushion member	4F100	HB
	K Absorbing sheet	4F100	HB
	L Mould separating sheet	4F100	HB
	M Adhesive sheet	4F100	HB
	N Reflecting sheet	4F100	HB
	Z Others	4F100	HB
	101 . consisting of a silicon resin	4F100	HB
	102 . consisting of a petroleum resin	4F100	HB
	103 . consisting of a polyether resin	4F100	HB
	104 . consisting of a diene resin	4F100	HB
• 27/02	. in the form of fibres or filaments	4F100	HB
• 27/04	. as impregnant, bonding, or embedding substance	4F100	HB
	A for ornamental plates	4F100	HB
	Z Others	4F100	HB
• 27/06	. as the main or only constituent of a layer next to another layer of a specific substance	4F100	HB

**Corresponding
F-term Theme
(if no link, no F-term code)**

F-term List

F-term Description

FI Coverage of Each Viewpoint

List	Description
4F100	Laminated bodies (2)
	B32B1/00-43/00

Viewpoint	FI Coverage of This Theme										FI Cover Range	
AA	AA00	AA01	AA02	AA03	AA04	AA05	AA06	AA07	AA08	AA09	AA10	B32B1/00-43/00
	INORGANIC COMPOUNDS AND SIMPLE SUBSTANCES	. Inorganic compounds	. . Inorganic metallic compounds	. . . Silicates	. . . Phosphates	. . . Halides	. . . Alkaline-earth metal halides	. . . Sulfates	. . . Carbonates	. . . Sulfides Copper sulfide	
	AA11	AA12	AA13	AA14	AA15	AA16	AA17	AA18	AA19	AA20		
	. . . . Zinc sulfide	. . . Nitrides	. . . . Aluminium nitride	. . . . Boron nitride	. . . Carbides	. . . . Silicon carbide	. . . Metal oxides and hydroxides	. . . . Alkaline-earth metal oxides or hydroxides	. . . . Aluminium oxides or hydroxides	. . . . Silicon oxides or hydroxides
	AA21	AA22	AA23	AA24	AA25	AA26	AA27	AA28	AA29	AA30		
. . . . Titanium oxides or hydroxides	. . . . Chromium oxides or hydroxides	. . . . Iron oxides or hydroxides	. . . . Nickel oxides or hydroxides	. . . . Zinc oxides or hydroxides	. . . . Germanium oxides or hydroxides	. . . . Zirconium oxides or hydroxides	. . . . Tin oxides or hydroxides	. . . . Antimony oxides or hydroxides	. . . . Lead oxides or hydroxides	
AA31	AA32	AA33	AA34	AA35	AA36	AA37				AA40		
. . . Borides	. . . Silicides	. . . Double oxides or metallic acid salts	. . . Titanates		. Simple substances	. . Carbon				. Other inorganic compounds or simple substances		

Access to FI/F-term Information

F-term Description

■ Descriptions of F-terms

This screen displays a description of the F-term theme code "4F100", about the point of view "AK".

Term	Explanation
AK00	Macromolecular materials I This place covers the subject matters for inorganic or organic macromolecular materials other than natural macromolecular substances based on the aspect of structure and composition. F-terms AK01-57 do not cover copolymers. The subject matter for copolymers is classified in both AK01-57 and AL01-04 or in AK52-75. An additional code J for copolymers is assigned to the subject matter classified in both AK01-57 and AL01-04.
AK01	. Organic macromolecular materials
AK02	. . Polymers concerned with only carbon-carbon unsaturated bonds This place covers the subject matter for specific resin which are not covered by AK03-30. Example: Polyvinylpyrrolidone or acrolein resin are also covered by this place.
AK03	. . . Olefinic polymers
AK04	. . . . Ethylenic polymers
AK05	. . . . . High-density polyethylene HDPE: high-density polyethylene
AK06	. . . . . Low-density polyethylene Synonym: LDPE, high-pressure method polyethylene Linear low density polyethylene (LLDPE) AK63

The English version of F-term Description is partially in preparation.

Access to FI/F-term Information

F-term Description(2)

F-term Description

This screen shows the description of the F-term "5C159".

(Remarks)
(Not Translated)

List Description

-Theme code
-Technical arts

[5C159](#)

FI Coverage

[H04N7/12-7/12@Z](#):19/00-19/98

Gazettes issued in and after January 1988 are analysed within the above coverage under this theme. Gazettes issued in and after January 2001 are analysed and searched by the following F-terms.

KK51-KK59, KK62, MA16, MA42, NN12, NN13

PP03, TA26, TA29-TA33, TA59, TA66, TA78

TA79, TB12, TC26, TC28, TC30, TC35, TC51

General Coverage of Theme

This theme covers the arts for bandwidth reduction and coding of TV signals. Image 1)[Drawing](#)

-Relationship between FIs and viewpoints

Concordance List between Viewpoints and Corresponding FIs

Image 2)-Image 6)[Drawing](#)

-Structure of F-term list

F-term list table([data sheet](#))

Relationship between terms

(1) Relationship between F-terms

Note 1: When the subject matter is classified in an asterisked (*) F-term, a free word combined with F-term is assigned.

Note 2: Even when the subject matter is classified in an F-term without an asterisk (*), a word representing the feature of the invention is assigned as a free word combined with F-term.

Note 3: When the subject matter is classified in an F-term with a number sign (#), the designated viewpoint places and F-terms under the viewpoint places, or the designated F-terms and the subdivisional places are obligatorily analysed and classified in the relevant places if any.

Image 7)-Image 26)[Drawing](#)

Temporal Coverage of This Theme

F-term Additional Code List

List	Description
4F100	Laminated bodies (2)
	B32B1/00-43/00

Viewpoint	F-term											FI Cover Range
AA	AA00	AA01	AA02	AA03	AA04	AA05	AA06	AA07	AA08	AA09	AA10	B32B 1/00- 43/00
	COMPOUNDS	Inorganic	... Inorganic metallic	... Silicates	... Phosphates	... Halides	... Alkaline-earth	... Sulfates	... Carbonates	... Sulfides	... Copper sulfide	
								AA17	AA18	AA19	AA20	
								... Metal oxides and hydroxides	... Alkaline-earth metal oxides or hydroxides	... Aluminium oxides or hydroxides	... Silicon oxides or hydroxides	

Click here to see additional codes
•(if no link, then no code)

THEME CODE	THEME NAME
4F100	Laminated bodies (2)

VIEWPOINT	DESCRIPTION	ADDITIONAL CODE
AA-AT	MATERIAL	1: Previous process 2: Laminating process 3: Post-process
CA-CC	ADDITIVES AND FILTERS, ADHESIVE MATERIALS, COATING MATERIALS	A: First layer B: Second layer C: Third layer D: Fourth layer E: More than fifth layer
DA-DJ	SHAPE, STRUCTURE	
EA-EG	PROCESSES	
JA-JM	PROPERTIES, FUNCTIONS AND STATES	G: Adhesive materials H: Addition and filling agent materials J: Copolymers K: Further specifying by the lower term
YY	VARIANTS WITH DEFINED NUMERICAL VALUES	

1. Overview
2. File Index (FI)
3. File forming Term (F-term)
- 4. Utilization of FI and F-term**
 - Access to FI/F-term Information
 - Searching with FI/F-term
5. Classifying process

Search with FI/F-term on J-PlatPat



Patent & Utility M

Number search

Classification search



Patent & Utility Model

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

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



Design

- [Design Number Search](#)

- [Design Classification Search](#)

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

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

Theme code

2G061

FI/F-term

G01N3/02@A*[AA01+AA07]

Publication Date

from: e.g. 20150101

-to: e.g. 20150331

Priority of search result display

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

 Search

Search results: [37](#)

View list

Results

Display Type All Pages Front Page Claims Drawings

Results 37 records.

No.	Document Number
1	JP,2013-053908,A
2	JP,3161127,U
3	JP,11-258133,A(1999)
4	JP,11-201886,A(1999)
5	JP,9-292320,A(1997)
6	JP,9-210887,A(1997)
7	JP,7-017542,U(1993)
8	JP,6-060437,A(1992)
11	JP,02-203240,A(1990)
12	JP,01-242936,A(1989)
13	JP,01-142439,A(1989)
14	JP,01-023647,U1(1989)
15	JP,01-023646,U1(1989)
16	JP,01-021348,U1(1989)
17	JP,63-133037,A(1988)
18	JP,62-058739,U1(1987)
19	JP,62-001148,U1(1987)
20	JP,61-034457,U1(1986)
21	JP,61-040539,A(1986)
22	JP,61-026149,U1(1986)
23	JP,60-095543,U1(1985)



Click

Selected Gazette

JP,11-258133,A

PAJ Detail Image

[← Previous Document](#) 3/37

(11)Publication number : 11-258133
(43)Date of publication of application : 24.09.1999
(51)Int.Cl. : G01N 3/02

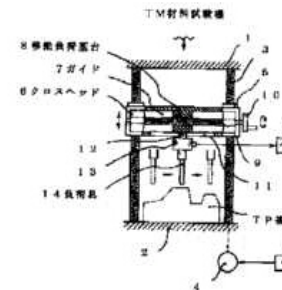
(21)Application number : 10-057940
(22)Date of filing : 10.03.1998
(71)Applicant : SHIMADZU CORP
(72)Inventor : KAWASAKI TAKESHI

(54)MATERIAL TESTING MACHINE

(57)Abstract

PROBLEM TO BE SOLVED: To obtain a material testing machine which can move the center of a load in accordance with a test position of a body to be tested which requires intensity measurement at a plurality of points.

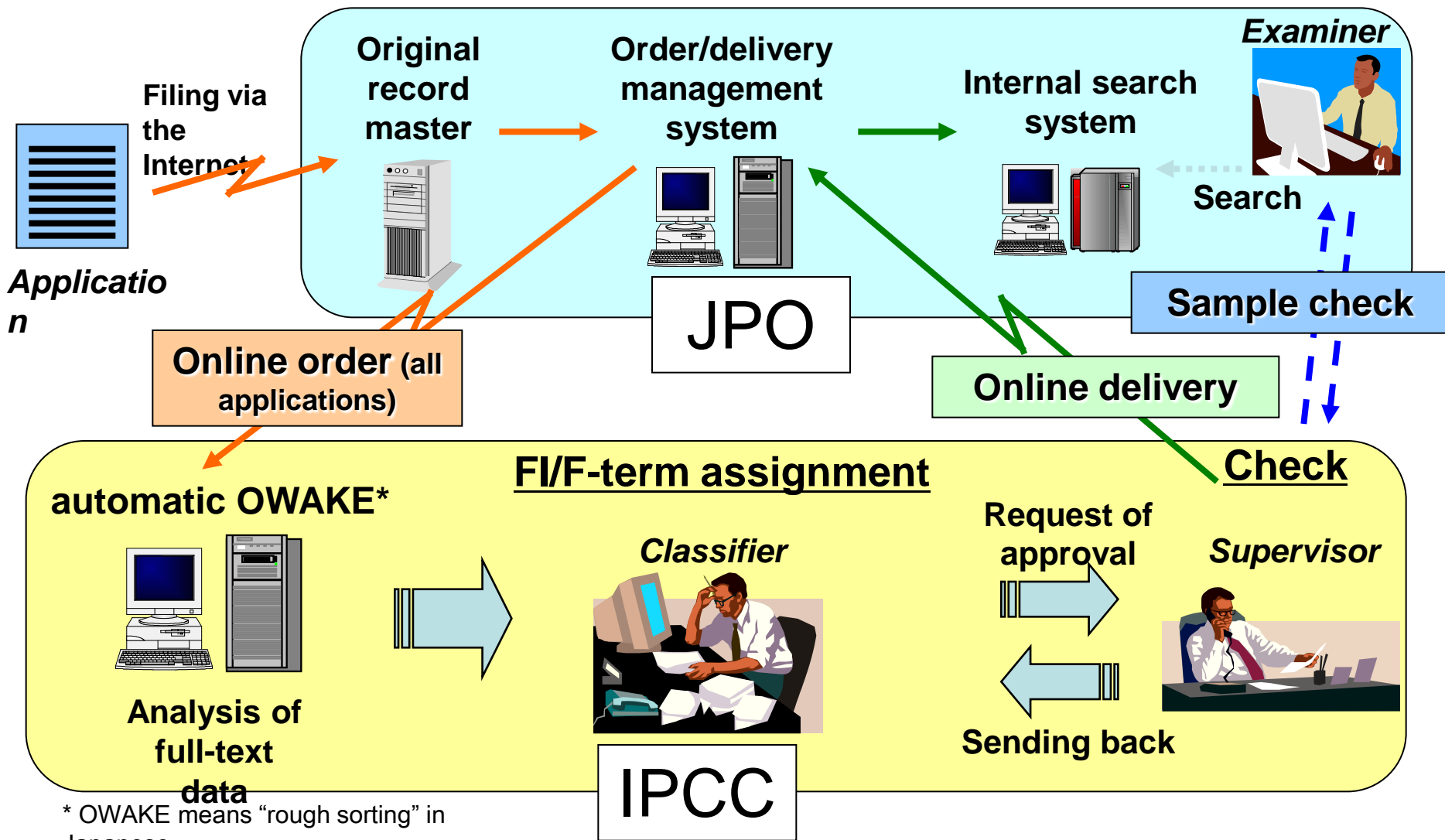
SOLUTION: A cross head 6 as a member constituting a material testing machine TM is provided with a guide 7, so that a moving load base 8 connected to a loading tool 14 such as a pressure board or a pressing rod for applying a load to a body TP to be tested is rendered slidable to allow the center of the load to move and moreover no gap is brought about in directions of tension and compression loads. A test position of the body TP to be tested and the load center of the material testing machine TM can be agreed in a wide range.



1. Overview
2. File Index (FI)
3. File forming Term (F-term)
4. Utilization of FI and F-term
- 5. Classifying process**

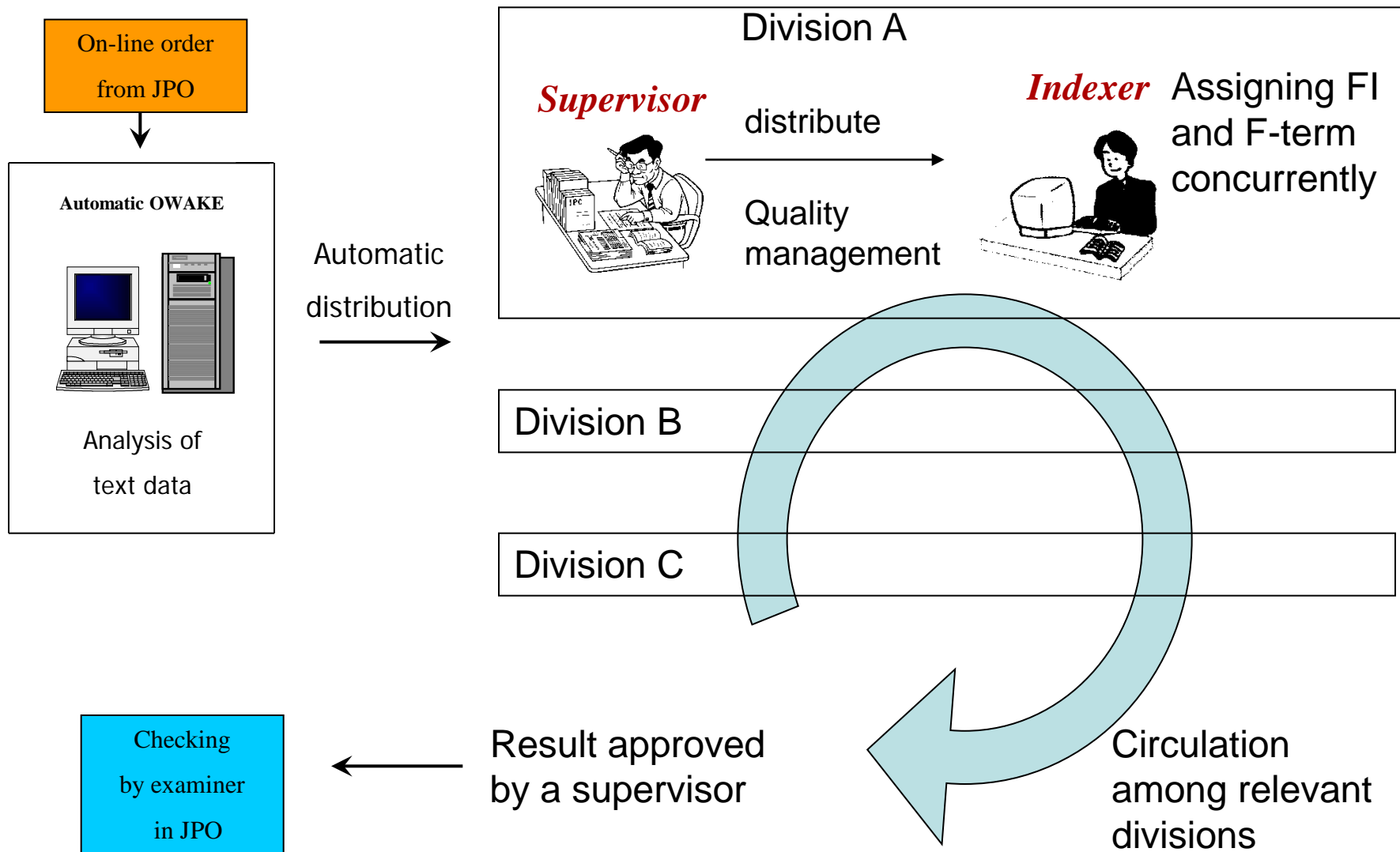
Assignment of FI/F-term(1)

-Flow of Assignment of Classification-

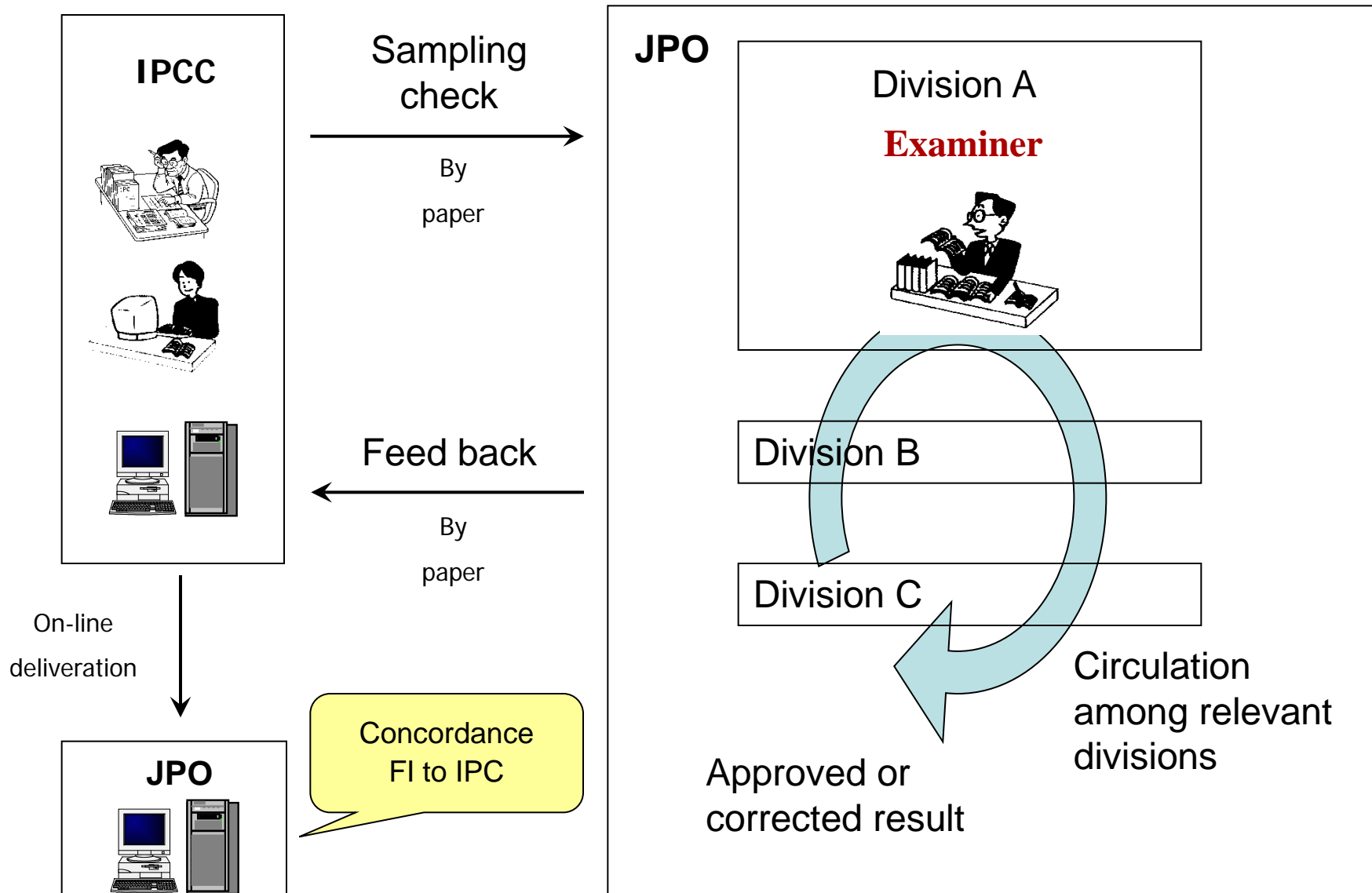


* OWAKE means "rough sorting" in Japanese.

(2) Classification assignment in IPCC

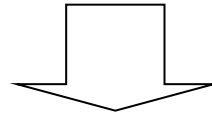


(3) Checking by Examiner in JPO

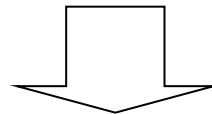


(4) Maintenance of classification assignment Data-base

Discover miss assignment of
classification (when searching, etc.)



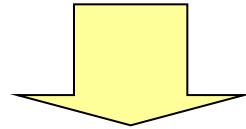
Correct FI/F-term with on-line
(by examiner)



Follow-up F-term classification
(by Outsourcing)

(5) Ways of Reclassification

Classification Revision



Classification Reassignment

1. By **Examiners**
2. By **Researchers**
3. By **Outsourcing**
4. **Mechanical reclassification by using FI, F-term and free-words**

Thank You