

FI/F-term Updates

February 2025

Japan Patent Office



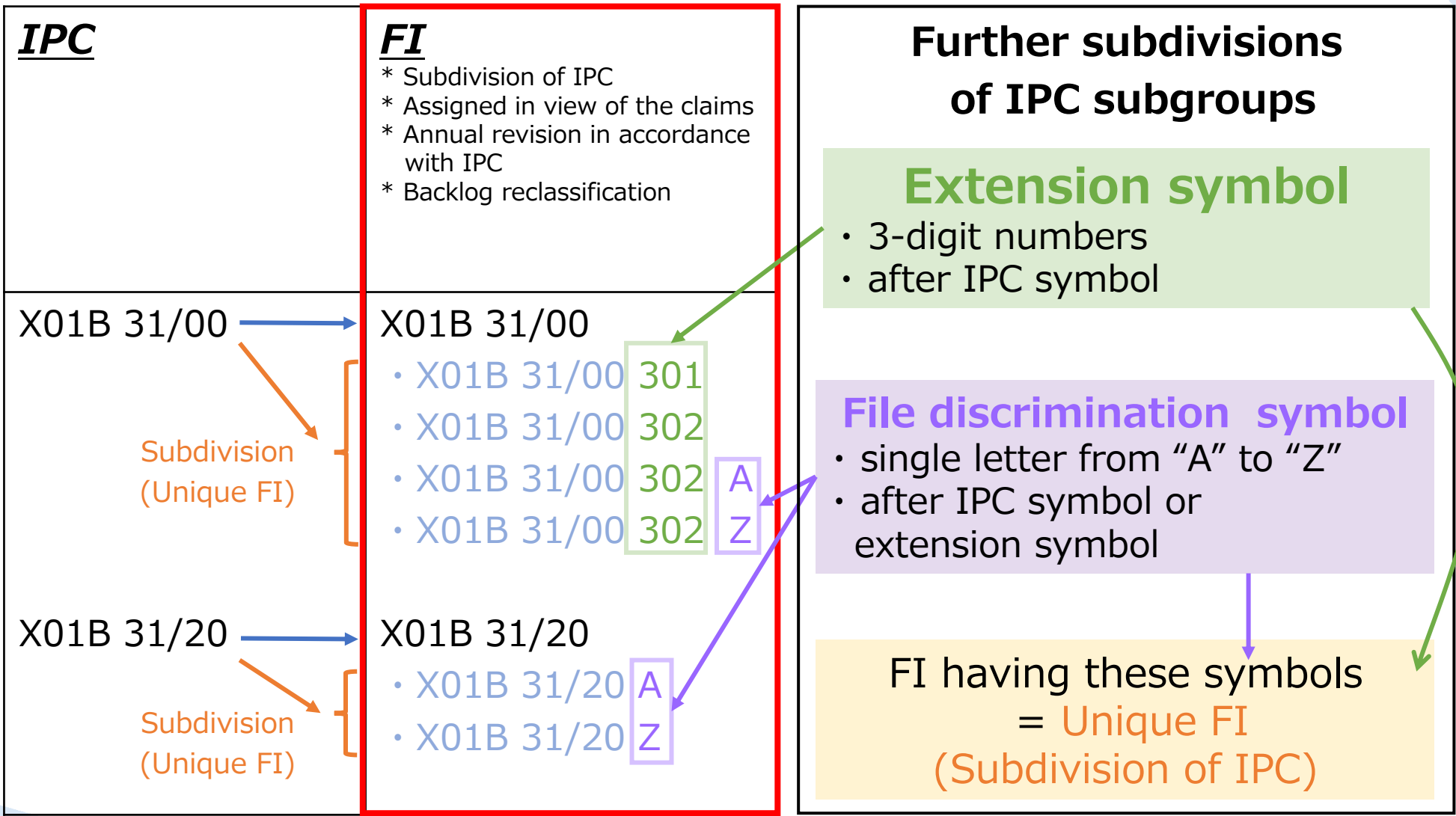
Outline

- Basics of FI/F-term
- Current status of FI/F-term
- FI candidate areas

Outline

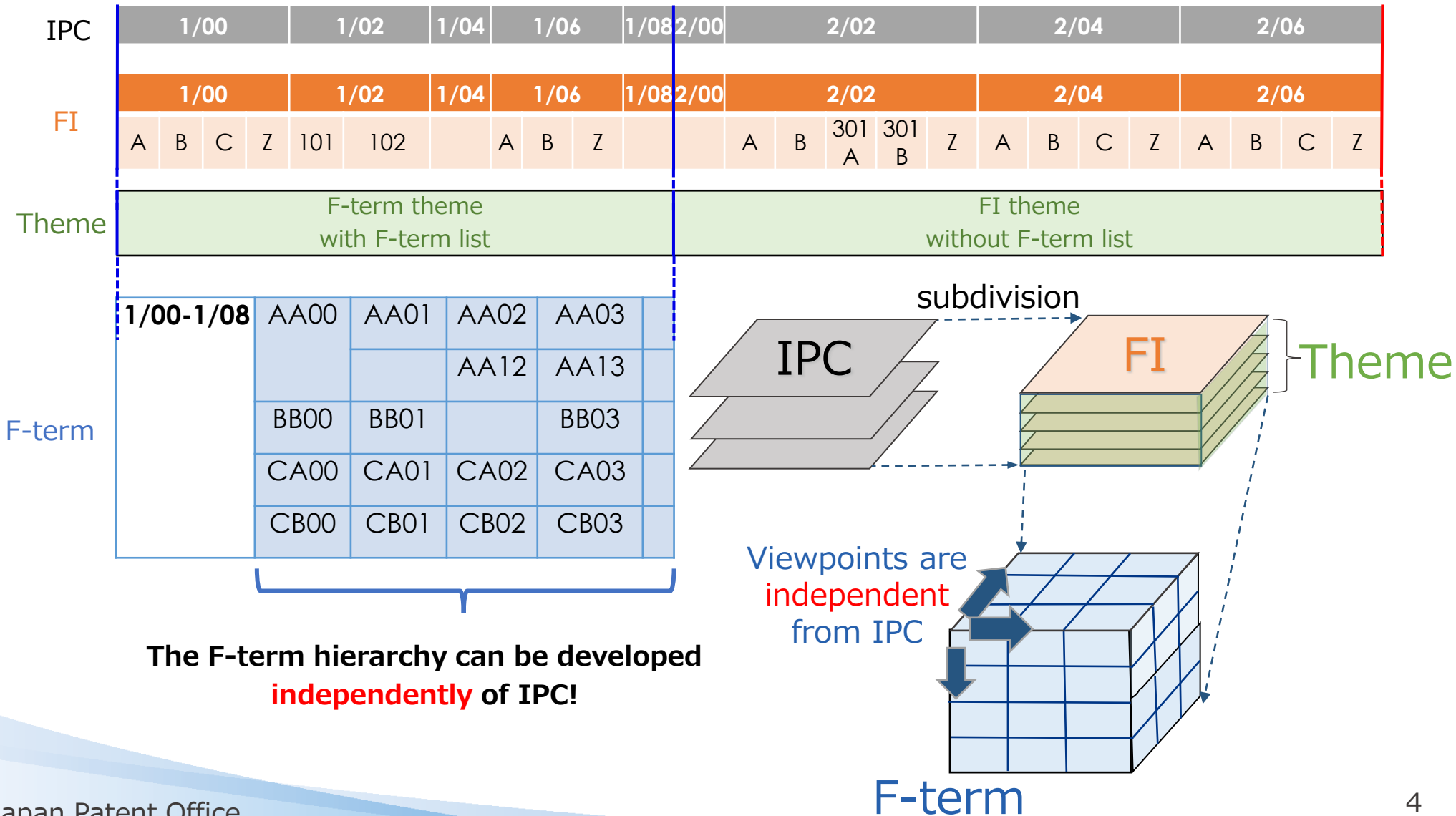
- Basics of FI/F-term
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What is FI?



What is F-term?

Relationship among IPC, FI, Theme and F-term



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FI/F-term Revision in FY2024

JPO carries out FI/F-term revision every year.

- New FI and F-terms are created
- Unused FI and F-terms are deleted

➤ FI revision: **300 main groups**(2025.01)

➤ F-term revision: **18 themes**(2024.04)

FI: https://www.jpo.go.jp/e/system/patent/gaiyo/seido-bunrui/f_i_kaisei.html

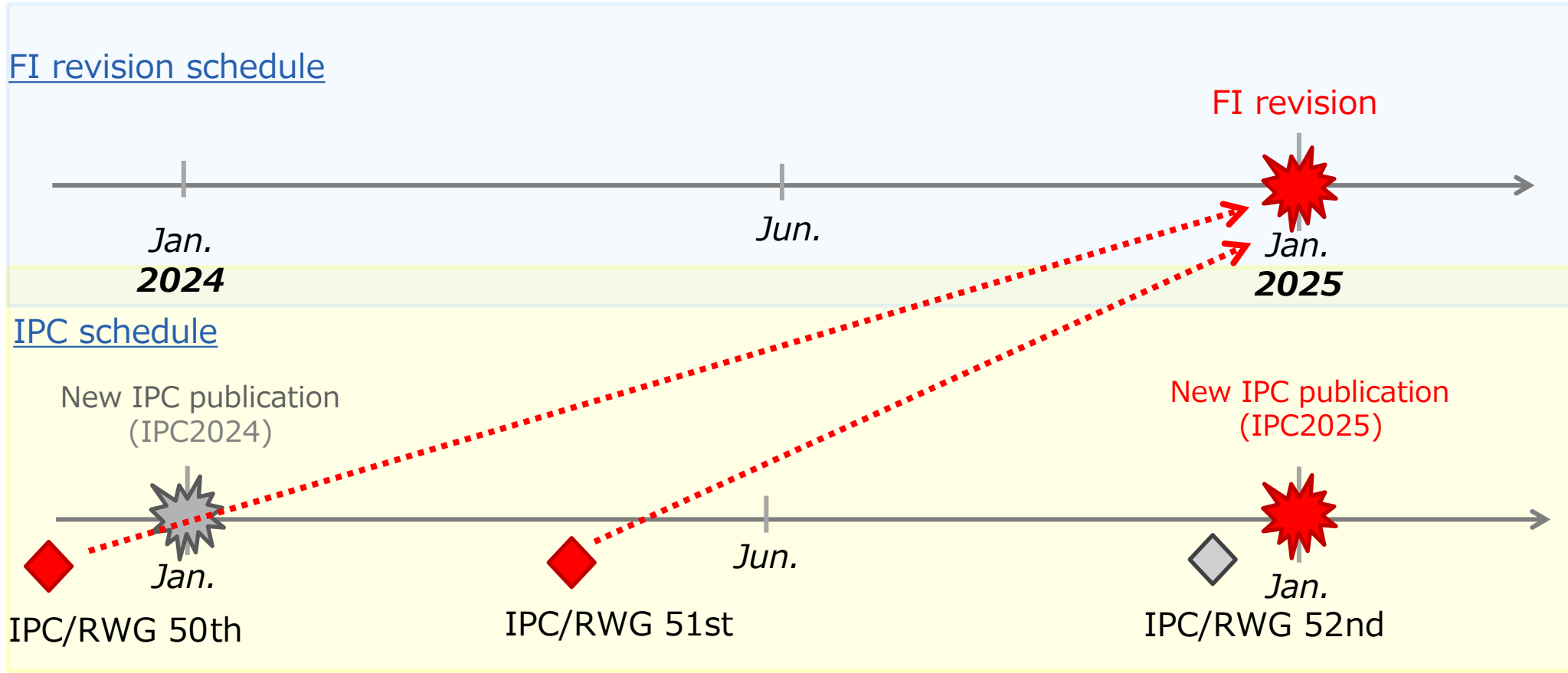
F-term: https://www.jpo.go.jp/e/system/patent/gaiyo/seido-bunrui/theme_kaihai.html

FI Reclassification Methods

- Reclassification using **search logical expression**
→ Queries combining classification symbols and text
- Reclassification **by humans**
- Reclassification **by Machine learning**

FI Revision Schedule

FI revision and new IPC publication **at the same time.**



IPC-FI-CPC Scheme Parallel Viewer

IPC

Sample : G06F or G06F3 or G06F3/ or G06F3/00 or G06F3/02 etc. [help](#)

Link to HTML Test Version [HTML Test Version](#)

IPC JP EN Both non-display symbol only
 IPC doc number On Off
 Display IPC level only Off On
 FI JP EN Both non-display
 FI doc number On Off
 FI dot pattern pattern1 pattern2
 CPC EN JP Both non-display
 CPC doc number On Off

Keyword Search IPC FI CPC

IPC

FI

CPC

G03F 7/004	·	Photosensitive materials(G03F7/12, G03F7/14 take precedence)	47660 docs

G03F 7/004	·	Photosensitive materials (G03F 7/12, G03F 7/14 take precedence) [5]	278 docs: 2H225 ; HB
G03F 7/004 501	· ·	Additives (7/075 and 7/085 take precedence)	5116 docs: 2H225 ; HB
G03F 7/004 502	· · ·	Stabilisers or polymerisation inhibitors	270 docs: 2H225 ; HB
G03F 7/004 503	· · ·	Sensitisers (7/028 takes precedence)	601 docs: 2H225 ; HB
G03F 7/004 503 A	· · · ·	Acid generators for chemically-amplified resists	1086 docs: 2H225 ; HB

G03F7/004	·	Photosensitive materials (G03F 7/12, G03F7/14 take precedence)	10393 docs
G03F7/0041	· ·	{providing an etching agent upon exposure (G03F7/075 takes precedence; photolytic halogen compounds G03F7/0295)}	244 docs
G03F7/0042	· ·	{with inorganic or organometallic light-sensitive compounds not otherwise provided for, e.g. inorganic resists (G03F7/075 takes precedence)}	989 docs
G03F7/0043	· · ·	{Chalcogenides; Silicon, germanium, arsenic or derivatives thereof; Metals, oxides or alloys thereof (G03F7/0044 takes precedence)}	624 docs
G03F7/0044	· · ·	{involving an interaction between the metallic and non-metallic component, e.g. photodope systems}	109 docs

Already Updated: IPC Ver.2025.01, FI Ver.2025.01, CPC Ver.2025.01

New IPC-FI-CPC Scheme Parallel Viewer

Scheme Parallel Viewer Menu screen

In the near future, Scheme Parallel Viewer must be static content. This menu screen and linked contents are test versions. If any problem arises, contact us and report [here](#) what kind of problems occurs and your IT environment, for example, OS, browser. New Scheme Parallel Viewer supports Microsoft Edge, Chrome, Fire Fox. But, Internet Explore is not supported.

In order to make static contents, HTML files include scheme data. HTML files, which include all sections, make loading time long and use large memory, for examples, 1.5GB(loading) and 0.8GB(loading completed). As a countermeasure, small HTML files, which include only one section data (A - H, Y) are provided for light IT environments. On the other hand, word search function are not provided in section HTML(A - H, Y), because search range is restricted in only one section.

Link to Current Scheme Parallel Viewer ==> [Normal version](#)

Normal Version	Concordance Version
All Section	All Section
A	A
B	B
C	C
D	D
E	E
F	F
G	G
H	H
Y	Y

Already Updated: IPC Ver.2025.01, FI Ver.2025.01, CPC Ver.2025.01

New IPC-FI-CPC Scheme Parallel Viewer

Scheme parallel viewer --normal version--

[concordance ver.](#)

[rawdata download](#)

[contact Us](#)

Link to Current Scheme Parallel Viewer

[Normal version](#)

IPC

Sample: G06F or G06F3 or G06F3/ or G06F3/00 or G06F3/02 etc.

[help](#)

IPC JP EN Both symbol only

IPC doc number On Off

Display IPC level only Off On

FI JP EN Both non-display

FI doc number On Off

FI dot pattern pattern1 pattern2

CPC EN JP Both non-display

CPC doc number On Off

KEYWORD SEARCH

IPC FI CPC

IPC			
G03F7/004	·	Photosensitive materials(G03F7/12, G03F7/14 take precedence)	47660

FI			
G03F7/004 ¥	·	Photosensitive materials (G03F7/12, G03F7/14 take precedence) [5]	278 2H225 HB
G03F7/004 501 ¥	· ·	Additives (7/075 and 7/085 take precedence)	5116 2H225 HB
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G03F7/004 503 ¥	· · ·	Sensitisers (7/028 takes precedence)	601 2H225 HB
G03F7/004 503 A	· · · ·	Acid generators for chemically-amplified resists	1086 2H225 HB

CPC		
G03F7/004	· Photosensitive materials (G03F7/12, G03F7/14 take precedence)	10393
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List of Candidate Areas for FI

Ranking in 2018-2023	Main group	Number of FI-assigned docs	Number of FI	Number of Unique FI	Number of FI-assigned docs per FI	Revision Projects	IPC version	IP5 Projects	Ranking in 2018-2023 by WIPO
1	A61P35	30192	3	0	10064				
2	A61K48	9776	1	0	9776				
3	C07K19	6836	1	0	6836				
4	A61K45	20368	4	1	5092				16
5	B33Y10	5050	1	0	5050				
6	B60W60	4538	1	0	4538	F131	2020.01		
7	A61P29	13014	3	1	4338				
8	H10K77	7481	2	0	3741	C512	2024.01		
9	A01P3	3592	1	0	3592				
10	B33Y30	3578	1	0	3578				
11	A61P37	16372	5	0	3274				
12	A61P43	37843	16	15	2365				
13	C08L69	2115	1	0	2115				
14	G06N20	10440	5	2	2088	F093	2019.01		5
15	B33Y80	1988	1	0	1988				
16	B82Y40	1869	1	0	1869				
17	H10B80	1860	1	0	1860	C511	2024.01		
18	C09J11	9294	5	0	1859				
19	C08L101	15815	9	0	1757				
20	H10K85	12213	7	0	1745	C512	2024.01		
21	G06Q50	50574	29	9	1744	A032 F008 C522	2012.01 2018.01 2024.01		9
22	A61Q19	10334	6	0	1722				
23	A01P1	1701	1	0	1701				
24	A61P21	6217	4	0	1554				

WIPO's List of Candidate Areas

CE 456
Annex 49, page 1

Ranking in 2018-2023-1 (file size per group)*	IPC**	Ranking in 2017-2022-1 (file size per group)	Ranking in 2017-2022-2 (file size per group)	File size (2018-2023-1)	Growth (2018-2023-1)	Number of IPC groups	File size per group	Revision Projects	IPC version	IP5 Projects
1	B08B 13	1	1	36482	65%	1	36482			
2	B25J 11	2	2	23377	35%	1	23377	F148, F186		
3	G01D 21	4	4	41857	89%	2	20929			
4	H02J 13	6	6	20329	248%	1	20329	F140		
5	G06N 20	8	7	53850	1767%	3	17950	F093	2019.01	
6	G06N 3	14	13	530101	1360%	40	13253	F141	2023.01	
7	G06T 19	11	11	24953	187%	2	12477	A012, P202	2011.01	P312
8	B24B 41	9	9	72368	15%	6	12061	A033	2012.01	
9	G06Q 50	7	8	268608	160%	23	11679	A032 F008 C522	2012.01 2018.01 2024.01	
10	G06Q 10	15	15	347582	231%	34	10223	A032 C508 F190	2012.01 2023.01	
11	B25B 11	13	14	18742	52%	2	9371			
12	G06Q 40	18	18	69404	169%	8	8676	A032 F164	2012.01 2023.01	
13	B23K 37	16	16	57125	51%	7	8161	F185	2025.01	
14	B08B 3	17	17	63008	9%	8	7876			
15	G16H 50	26	26	46777	446%	6	7796	F008	2018.01	
16	A61K 45	20	20	23259	99%	3	7753			
17	G06T 17	31	32	45849	392%	6	7642	A012	2011.01	
18	B08B 5	21	21	22441	112%	3	7480			
19	H04W 24	24	24	39953	131%	6	6659	C435, A005, P092	2009.01	
20	H05K 5	27	27	33016	115%	5	6603	F187	2025.01	P294
21	H04L 9	34	31	124176	321%	19	6536	F071	2022.01	
22	G06V 10	72	56	350244	3494%	54	6486	F143	2022.01	
23	B05B 13	25	25	24573	7%	4	6143	RQ056		
24	B25J 19	28	28	23520	36%	4	5880	F148, F186		
25	B08B 15	29	29	16924	35%	3	5641			

Thank you!

If you have any question,
please email me at PA0L10@jpo.go.jp
or ask JPO colleagues!

