

Outline of Technology Examined in Examination Departments

(2021.4.26)

Patent and Design Examination Department (Physics, Optics, Social Infrastructure and Design)

Division/Subdivision(Code)	IPC	
Measurement Division(2F)	G01F	
	G01G	
	G01K	
	G01L	
	G01P	
	G01D	
	G04BCDFGR	
	G06M	
	G08C	
	G12B	
	A99Z, B99Z, C99Z, D99Z, E99Z, F99Z, G99Z, H99Z	
	Distance and Electricity Measurement Sub-Division(2S)	G01B
		G01C(1/-15/, 19/)
G01S		
G01R(1/00-33/26, 35/)		
Physical Properties Measurement Sub-Division(2W)	G01JM(11/)N(21/-24/, 27/00-27/10, 27/14-27/24, 27/60-29/)R(33/28-33/64)	
Applied Physics Division(2G)	G21CD	
	G01T(1/00-1/16, 1/167-7/)	
	G21FGHJK	
	G21B	
	H05H	
	H01J(1/-21/, 29/00-29/34, 29/46-31/06, 31/10-31/24, 61/-99/)K	
	H01J(23/-27/, 29/36-29/45, 31/08, 31/26-49/)	
	G03B(27/)D	
	G03F(1/-5/, 7/20-7/24, 9/)	
	H01L(21/027-21/033, 21/30, 21/46)	
	B82BY	
	Display Apparatus Sub-Division(2I)	G03B21/-25/, 33/
		G09F(9/)
G09G		
Material Analysis and Medical Diagnosis Division(2J)	G01N(1/-19/, 25/, 35/-37/)	
	G01HM(1/-10/, 13/-99/)QVW	
	G01N(27/12, 27/26-27/49, 30/-33/)	
	C40B(20/-30/00, 30/04-30/10, 60/04, 60/10-60/12)	
	B01J(20/281-20/292)	
Medical Diagnosis Sub-Division(2Q)	A61B(1/-5/0538, 5/06-5/398, 7/, 9/-10/)	
Diagnostic Imaging Sub-Division(2U)	H05G	
	G01T(1/161-1/166)	
	A61B(5/055, 6/, 8/)	
Applied Optics Division(2H)	B41M(5/, 99/)	
	B44C(1/16-1/175)	
	G03F(7/00-7/18, 7/26-7/42)	
	G03C(1/, 3/00.301, 5/-11/)	
	G03G(5/-11/)	
	Optical Apparatus Sub-Division(2V)	G02B(7/-25/)
		G03B(1/-19/, 29/-31/, 35/-43/)C(3/00, 3/00.351-3/02)
Optical Elements and EL Devices Sub-Division(2O)	G02B(1/-5/)C	
	G03H	
	H05B(33/)	
	H01L(27/32, 51/50-51/56)	

Division/Subdivision(Code)	IPC	
Optical Devices Division(2K)	H01L (33/)	
	H01L (31/ , 51/42-51/48)	
	H02S (10/ , 30/-99/)	
	H01S	
	Optical Control Sub-Division(2L)	G02B (6/00-6/34, 6/36-6/54)
G02B (6/35, 26/-27/ , 30/)		
G02F (1/00-1/125, 1/21-7/)		
G02F (1/13-1/19)		
Business Machinery Division(2C)	G03G (13/- 15/00.303, 15/00.550-21/)	
	B42BCDF	
	B43KLM	
	G09DF (1/-7/ , 11/-27/)	
Printing Presses and Printers Sub-Division(2P)	B41BCDFGKLM (1/-3/ , 7/-9/)N	
	B41J (1/-9/ , 17/-35/)	
Agricultural and Civil Engineering, and Computerized Game Division(2B)	A01BCDF	
	B02B	
	A01K (1/-67/00.501 , 67/033 , 67/033.502-99/)L	
	B68BC	
	B27DHJKLMN	
	A01GM	
	A23K	
	E02D	
	E02F	
	E21BC	
	E01BCDFH	
	E21DF	
	E02BC	
	E03BF	
	Education and Computerized Game Sub-Division(2D)	A63BCD
A63GJK		
A63F (7/00, 7/04-7/40)		
A63F (9/-13/)		
A63H		
G09B		
Amusement Division(2T)	A63F7/02	
Amusement Machine Sub-Division(2X)	A63F7/02	
General Amusement Sub-Division(2N)	A63F (1/-5/)	
Construction Division(2E)	E04BC	
	F16S	
	E04G	
	E06C	
	H02S (20/00-20/32)	
	A45F	
	E04H	
	E04DF	
	Housing Equipment Sub-Division(2R)	A47H
		E05BCDFG
E06B		
A47B		
A47K		
E03CD		

Patent Examination Department (Mechanical Technology)

Division/Subdivision(Code)	IPC
Automatic Control Division(3H)	B60LM, B61L B60K(6/20-6/547)W(20/) H01M(8/04-8/0668) F16KT F02D(3/-7/)
Fluid Control Sub-Division(3O)	B67D F01DK F02CGK F23R F03BCD F04BCDF F15BCD
Dynamo-Electronic Machines and Control Sub-Division(3V)	B06B H02KN H02P
Motive Machinery Division(3G)	F01L F01BC F02B(53/-79/) F03G F01MP F02B(25/-51/)M(1/-35/)P(1/-5/14,5/16-23/) F02B(1/-23/)D(31/-39/)F F02D(9/-29/,41/-45/)P(5/145-5/155) F02N F02D(1/)M(37/-71/) B60K(35/-37/06) F01N
Autonomous Driving Sub-Division(3Z)	B60K(31/)W(10/-10/30,30/-60/) G08G G01C(17/,21/-25/)
Transportation Division(3D)	B60DR(19/) B62D(17/-39/) B60FPV B62BCD(41/-67/) B60K(1/-6/12,7/-16/,25/-28/) F16M B61BCDFGJK B62HJKM B63BCGHJ B64BCDFG F03H F41ABCFGHJ F42BCD
Vehicle Device Sub-Division(3Q)	A62BC B60BC(23/-99/) B60G B60JR(1/-17/) B60R(21/-99/)S B62D(1/-15/)

Division/Subdivision(Code)	IPC
General Machinery Division(3J)	B60K(17/-23/)
	F16H(61/26-61/36,63/-63/38)
	G05G
	F16CN
	F16D(1/-47/)
	F16G
Brakes and Engineering Elements Sub-Division(3W)	F16H(1/-57/)
	F16H(59/-61/24,61/38-61/64,63/40-63/)
	B60T
	B61H
	B62L
	F16D(49/-71/)
Production Machinery Division(3C)	F16B
	F16FP
	F16J
	B23BCDFGP(5/-17/,23/-25/)Q(1/-13/,16/-41/)
	B24BCD
	B25BCDFGH
Processing Machinery Sub-Division(3P)	B26B
	B21D(1/-45/)
	B21D(47/-55/)FGHJKL
	B30B
	B23H
	B23K(1/-25/,28-33/,37/)
	B23K(26/)
	B26DF
	B27BCFG
	B28D
	B44BC(1/-1/14,1/18-7/)DF
B81BC	
Robotics Sub-Division(3U)	B23Q(15/)
	G05B(19/18-19/416,19/42-19/46)
	B25J
	G05B(1/-19/16,21/-99/)D
	G05B(19/418)
Logistics Division(3F)	B23P(19/-21/)
	H05K(3/30,13/)
	B07C
	B65G(1/-69/)
	B66BCDF
Terminal Parts Sub-Division(3T)	H01R
	H01HT
	H02BG(5/)
	H05F
Textile Processing and Packaging Machinery Division(3B)	A41BCDFH
	A42BC
	A44B
	A61F(13/-17/)L(15/)
	B41J(11/-15/)
	B65H
	G03G(15/00.400-15/00.481)
	D01BCGH
	D02H
	D03CD(29/-51/)J
	D04B(3/-19/,23/-39/)
D05BC	
Containers and Packaging Sub-Division(3N)	B31BCDF
	B65BC
	B67BC
	B65D(1/-55/)
	B65D(57/-85/)
	B65D(88/-91/)
F17BC	

Division/Subdivision(Code)	IPC
Living Appliance Division(3K)	A45D(1/-7/,19/-20/)
	A47L(5/-9/,15/-21/)
	D06F(1/-51/,58/-105/)
	A47L(1/-4/,11/-13/,23/-25/)
	B08B
	B65F
	D06F(53/-57/)
	A47F
	A41G
	A43BCD
	A44C
	A45BCD(8/,24/-44/,97/)
	A45F(3/)
A46BD	
A47G	
A61C(17/)	
B29D(35/)	
Cookware, Food Machinery, and Checkina Device Sub-Division(3R)	G07BCDFG
	A21BC
	A22BC
	A23NP
	H05C
	A24BCDF
	A47J
F24BC	
H05B(1/-11/)	
Lighting Sub-Division(3X)	B60Q
	F21HKLSV
	H05B(31/,35/-47/)
Heating, Refrigerating and Air-conditioning Engineering Division(3L)	F16L
	F17D
	F22BDG
	F23BCDGHJKLMNQ
	F24DH
	F24F(6/-9/,12/-13/)
	F24STV
	F26B
	F28BCDFG
Refrigerating and Air-conditioning Engineering Sub-Division(3M)	B60H
	F24F(1/-5/,11/)
	F25B
	F25CD
Medical Device Division(3E)	A61F(7/)G(15/14-15/18)H(1/-31/,39/-99/)JM(11/-21/)
	A61F(2/82-2/97)M(3/-9/,25/-36/08,37/-39/28,99/)
Surgical and Therapeutic Device Sub-Division(3I)	A61B(13/-18/18,34/-90/)DF(2/01)N(7/)
	A61B(18/20-18/28)M(36/10-36/14)N(1/-5/)
Prosthesis and Assistive Device Sub-Division(3S)	A47CD
	B60N
	B68G
	A61F(5/-6/)G(1/-15/12,17/-99/)H(33/-37/)
	A61C(1/-17/,19/)
A61F(2/00,2/02-2/80,3/-4/,9/-11/),M(1/)	

Patent Examination Department (Chemistry, Life Science and Material Science)

Division/Subdivision(Code)	IPC
Inorganic Chemistry Division(4G)	C01BCDFG C40B(40/18) B01J(21/-38/)
Ceramics Sub-Division(4T)	C04B B28BC C03BC
Vapor Deposition and Single Crystal Growth Technology Sub-Division(4G)	C23C(14/-16/) C30B
Material Processing Division(4E)	B21B B21C B22CD B22F C23C(exclude 14/-16/)DFG C25BCDF C21BC C22B C22C(1/,3/,26/,29/,33/,47/-49/)
Resin Processing Sub-Division(4R)	B29B(7/-11/14,13/-15/06) B29C(31/-43/,45/-67/08,67/24,69/-71/02,73/) B29D(1/-29/,33/,99/) B33Y
Metals and Electrochemistry Division(4K)	B23K(35/) C21D C22C(5/-25/,27/-28/,30/,35/-45)F F27BD
Electrochemistry Sub-Division(4X)	H01M(50/)
Batteries Sub-Division(4X)	H01M(exclude 8/04-8/0668,10/42-10/667, 50/),H01G(9/20)
Medical Science Division(4C)	A61K(31/-33/)P
Pharmaceutical Preparations Sub-Division(4C)	A61K(6/,9/,47/),A61L(15/-33/)
Biopharmaceutical Sub-Division(4U)	A61K(35/-45/,48/-51/)
Biotechnology Division(4B)	C12N(15/) C40B(10/,40/02,40/06-40/10,50/06)
Cells and Microorganisms Sub-Division(4N)	C12MN(exclude 15/)PQ A01HK(67/02-67/027,67/033.501)
Protein Engineering Sub-Division(4B)	C07GK
Environmental Chemistry Division(4D)	C02F(1/00-1/42,1/46-11/20) B01D(21/) B01J(39/-49/) B01D(53/22,61/-71/) C02F(1/44) B02C A61K(8/)Q
Separation Sub-Division(4Q)	B01D(9/-19/,23/-51/,57/-59/) B03BCD B04BC B07B B01F(1/-15/) A62D A61L(9/) B01D(53/00-53/18,53/24-53/96) B01B B01D(1/-8/) B01J(2/-12/,14/-20/) F25J B01L

Division/Subdivision(Code)	IPC	
Organic Chemistry Division(4H)	C07BCF	
	C40B(40/00,40/04,40/16,50/00,50/04,50/08-60/02,60/06-60/08,60/14-99/00)	
	A01NP	
	Heterocyclic Compounds Sub-Division(4P)	C07D(201/-421/)
		C07D(451/-521/)
		C07HJ
		C08B
	Foods Sub-Division(4O)	C40B(40/12)
		A01J
		A21D
A23BCDFGJL		
C12CFGHJL		
Applied Organic Chemicals Division(4V)	C13BK	
	A61L(2/,11/-12/)	
	B01F(17/)	
	B01J(13/)	
	B09BC	
	B29B(17/)	
	C08J(11/)	
	C10BCFGHJKL	
	C06BCDF	
	C05BCDFG	
	C09FG	
	C10M	
	C11BCD	
	C09K	
	Coatings and Adhesives Sub-Division(4Z)	C09D(exclude 11/-17/)
		C09J
		C09CD(11/-17/)
		C09B
		D06P
	Polymer Division(4J)	C08F
C08G		
C08C		
C08H		
C09H		
C40B(40/14)		
Polymer Composition Sub-Division(4W)		C08KL
Plastic Engineering Division(4F)	B29B(11/16,15/08-15/14)C(71/04), C08J(3/-9/,99/)	
	B29C44/00-44/60, B29C67/20	
	B29D30/00-30/72,B60C(1/-19/)	
	Textiles and Layered Products Sub-Division(4S)	B05BCD
		B32B
		B68F
		C14BC
		D03D(1/-27/)
		D04B(1/,21/)CDGH
		D06N
		D01DF
		D02GJ
		D06BCGHJLMQ
D07B		
D21BCDFGHJ		

Patent Examination Department (Electronic Technology)

Division/Subdivision(Code)	IPC
Electronic Commerce Technology Division(5L)	G06Q(10/,30/,50/00-50/20,50/26-50/34,90/,99/) G06F(17/40),G16Z
Fintech Sub-Division(5L')	G06Q(20/,40/)
Healthcare Information System Sub-Division(5L'')	G06Q(50/22),G16H G16B G16C
Interface Division(5E)	G06F(3/01-3/0489,3/14-3/16) H03M(11/) G06F(1/,3/05,3/09-3/13) G06CDEGJ G06F(5/-7/)
Information Retrieval and Storage Management Sub-Division(5N)	G06K(1/-7/,11/-21/) G06F(12/00-12/128,12/16,13/16-13/18,16/,40/00-40/58) G11C
Data Processing Division(5B)	G06F(9/22-9/38,9/455.150-9/54,15/00-15/82,17/00-17/18) G06F(8/00-8/77,9/00-9/06,9/44-9/455.100) G06F(11/) G06N
Image Processing Sub-Division(5H)	G06K(9/)T(1/00.280-9/) G06F(17/50)
Information Security Sub-Division(5S)	G06F(12/14,21/00-21/88) G09C H04KL(9/) G06F(3/00,3/06-3/08,3/18,13/00,13/10-13/14,13/20-13/42)
Transmission Systems Division(5J)	H04M H04Q(1/-5/,11/) G08B
Mobile Communication Systems Sub-Division(5J')	H04B(7/24-7/26)W
Transmission Circuitry Sub-Division(5W)	H03B(1/-29/)/CJ(1/-7/)/L(1/-9/)/D(1/-99/)/H(1/-21/)/FG(1/-99/) K(3/-99/)/M(1/)
Electric Power Systems Division(5G)	H01B H02G(1/-3/,7/-15/) G05F H02M
Electric Power Distribution Sub-Division(5T)	H01M(10/42-10/667) H02HJ
Digital Communications Division(5K)	H03M(3/-9/,13/-99/) H04B(1/00-1/68,1/72-1/76,3/,5/,7/005-7/015,7/14-7/22,10/-17/) H04HJ(14/)/L(5/20,15/-23/) H01PQ
Data Networks Sub-Division(5X)	H04L(12/,13/,29/) G06F(13/00.351-13/00.680) H03J(9/) H04Q(9/)
Video Systems Division(5C)	H04N(5/38-5/46,5/76-5/956,7/10-7/173,7/20-7/56,9/79-9/898,19/,21/) G11B
Television Sub-Division(5P)	H04N(5/00,5/222-5/257,5/66-5/74,7/00-7/088,7/18,9/00,9/12-9/43,11/-17/)
Still Picture Sub-Division(5V)	H04N(1/,3/,5/04-5/217,5/262-5/378,5/50-5/655,9/04-9/11,9/44-9/78) G06T(1/00-1/00.200,11/-19/)

Division/Subdivision(Code)	IPC
Electronic Components Division(5D)	H01CFG(exclude 9/20)
	H05K(1/-3/28,3/32-3/46,5/-11/)
Acoustic Systems Sub-Division(5Z)	G10BCDFGHL
	H04RS
	G10K
Electronic Device Division(5F)	H01L(21/328-21/338,21/82-21/8228,21/8232-21/8238,21/8248-21/8258,27/00-27/098,27/118,27/13,27/18,27/28,29/00-29/38,29/66-29/76,29/772-29/786,29/80-29/812,29/86-29/96,39/,51/00-51/40)
	H01L(21/339,21/62,21/8229,21/8239-21/8246,27/10-27/11597,27/14-27/16,27/20-27/26,27/30,29/762-29/768,29/788-29/792,29/82-29/84,35/-37/,41/-49/)
Electronic Device Packaging Sub-Division(5F')	H01L(21/00-21/02,21/04-21/16,21/304.641-21/304.651,21/447-21/449,21/48-21/52,21/56-21/607,21/64-21/66,21/98)
	H01L(21/54,23/-25/)
Electronic Device Manufacturing Process Sub-Division(5O)	H01L(21/18-21/288,21/302,21/306-21/326,21/34-21/445,21/461,21/465-21/479,21/70-21/77,21/84-21/86,27/12,29/40-29/51)
	H01L(21/301,21/304-21/304.631,21/463,21/78-21/786)
	H01L(21/67-21/687)