EUROPEAN PATENT OFFICE U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1650

DATE: AUGUST 1,2024

PROJECT MP12189

The following classification changes will be effected by this Notice of Changes:

Action	Subclass	Group(s)
SCHEME:		
Titles Changed:	D06N	2209/1664
	D06N	2211/08,2211/18
	D07B	2301/45
	E04F	2201/044
	E05B	2015/1692
	E05B	2047/0013,2047/0091
	E05B	2063/0026
	H01J	2217/04
	H01J	2237/002, 2237/024, 2237/0492,
		2237/141, 2237/1538, 2237/16, 2237/204,
		2237/2065, 2237/21, 2237/22,
		2237/24528, 2237/2608, 2237/2826,
		2237/30433, 2237/3045, 2237/31732,
		2237/31798
	H01L	2224/0383,2224/05187,2224/05287,
		2224/05387, 2224/05487, 2224/05687,
		2224/05787, 2224/05887, 2224/05987,
		2224/0912, 2224/1183, 2224/13187,
		2224/13287, 2224/13387, 2224/13487,
		2224/13687, 2224/13787, 2224/13887,
		2224/13987, 2224/1712, 2224/2783,
		2224/29021, 2224/29187, 2224/29287,
		2224/29387, 2224/29487, 2224/29687,
		2224/29787, 2224/29887, 2224/29987,
		2224/3312,2224/37187,2224/37287,
		2224/37387, 2224/37487, 2224/37687,
		2224/37787, 2224/37887, 2224/37987,
		2224/45187, 2224/45287, 2224/45387,
		2224/45487, 2224/45687, 2224/45787,
		2224/45887,2224/45987,2224/48687,
		2224/48787,2224/48887,2224/80379,
		2224/80487,2224/80587,2224/80687,
		2224/80787,2224/80901,2224/81379,
		2224/81487,2224/81587,2224/81687,
		2224/81787,2224/81901,2224/83379,
		2224/83487,2224/83587,2224/83687,
		2224/83787,2224/84487,2224/84587,
		2224/84687, 2224/84787, 2224/85487,
	11011	2224/85587, 2224/85687, 2224/85787
	H01L	2924/16174
	H03K	2217/96015
	H04M	2215/7886
	H04M	2250/12

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Action	<u>Subclass</u>	Group(s)
	HOAN	2201/0012 2201/0044 2201/0074
	H04N	2201/0013,2201/0044,2201/0074, 2201/0448,2201/04743
	H04Q	2213/13136,2213/13336,2213/13402,
	1104Q	2213/13130,2213/13330,2213/13402,
	H05K	2201/0133,2201/0233,2201/0236,
	110011	2201/0248,2201/0251,2201/0314,
		2201/0338,2201/0373,2201/066,
		2201/09036, 2201/09045, 2201/0919,
		2201/09245, 2201/09281, 2201/09381,
		2201/094, 2201/09463, 2201/09472,
		2201/09563, 2201/09609, 2201/09627,
		2201/09663,2201/09672,2201/09754,
		2201/09827, 2201/09872, 2201/10234,
		2201/10242, 2201/1025, 2201/10272,
		2201/1034,2201/10492,2201/105,
		2201/10575, 2201/10606, 2201/2036,
	110.517	2201/2072
	H05K	2203/025, 2203/0353, 2203/04,
		2203/0597, 2203/066, 2203/0709,
		2203/105, 2203/1163, 2203/122,
		2203/128, 2203/1372, 2203/1438
DEFINITIONS:		
Definitions Deleted:		
(no frozen (F) symbol definitions		
should be deleted)		
Definitions New:	D06N	2209/1664,2211/08,2211/18
	D07B	2301/45
	E04F	2201/044
	E05B	2015/1692,2047/0013,2047/0091,
		2063/0026
	H01J	2217/04,2237/1538,2237/31798

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<u>Action</u>	<u>Subclass</u>	Group(s)
	H01L	2224/0383,2224/05187,2224/05287,
		2224/05387, 2224/05487, 2224/05687,
		2224/05787, 2224/05887, 2224/05987,
		2224/0912, 2224/1183, 2224/13187,
		2224/13287,2224/13387,2224/13487,
		2224/13687,2224/13787,2224/13887,
		2224/13987, 2224/1712, 2224/2783,
		2224/29021, 2224/29187, 2224/29287,
		2224/29387, 2224/29487, 2224/29687,
		2224/29787, 2224/29887, 2224/29987,
		2224/3312, 2224/37187, 2224/37287,
		2224/37387,2224/37487,2224/37687, 2224/37787,2224/37887,2224/37987,
		2224/45187,2224/45287,2224/45387, 2224/45487,2224/45687,2224/45787,
		2224/45887,2224/45987,2224/48687,
		2224/43887,2224/43987,2224/48087,
		2224/80487,2224/80587,2224/80687,
		2224/80787,2224/80901,2224/81379,
		2224/81487, 2224/81587, 2224/81687,
		2224/81787, 2224/81901, 2224/83379,
		2224/83487, 2224/83587, 2224/83687,
		2224/83787,2224/84487,2224/84587,
		2224/84687,2224/84787,2224/85487,
		2224/85587, 2224/85687, 2224/85787,
		2924/16174
	H03K	2217/96015
	H04M	2215/7886,2250/12
	H04N	2201/0013,2201/0044,2201/0074,
		2201/0448,2201/04743
	H04Q	2213/13136,2213/13336,2213/13402,
		2213/13524
	H05K	2201/0133, 2201/0233, 2201/0236,
	l l	2201/0248, 2201/0251, 2201/0314,
		2201/0338,2201/0373,2201/066,
		2201/09036, 2201/09045, 2201/0919,
		2201/09245, 2201/09281, 2201/09381,
		2201/094,2201/09463,2201/09472,
		2201/09563, 2201/09609, 2201/09627,
		2201/09663,2201/09672,2201/09754,
		2201/09827, 2201/09872, 2201/10234,
		2201/10242,2201/1025,2201/10272,
		2201/1034, 2201/10492, 2201/105, 2201/10575, 2201/10606, 2201/2036,
		2201/103/3,2201/10606,2201/2036,
		2203/04, 2203/0597, 2203/066,
		2203/04, 2203/0397, 2203/066, 2203/0709, 2203/105, 2203/1163,
	l l	2203/109, 2203/103, 2203/1103, 2203/122, 2203/128, 2203/1372,
		2203/122,2203/128,2203/1372,
		2203/1 7 30

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Action	Subclass	Group(s)
Definitions Modified:	H01J	2237/002, 2237/024, 2237/0492, 2237/141, 2237/16, 2237/204, 2237/2065, 2237/21, 2237/22, 2237/2608, 2237/2826, 2237/30433, 2237/3045, 2237/31732

No other subclasses/groups are impacted by this Notice of Changes.

This Notice of Changes includes the following [Check the ones included]:

1. CL	ASSIF	FICATION SCHEME CHANGES
	\boxtimes	A. New, Modified or Deleted Group(s)
		B. New, Modified or Deleted Warning(s)
		C. New, Modified or Deleted Note(s)
		D. New, Modified or Deleted Guidance Heading(s)
2. DEI	FINIT	TONS
	\boxtimes	A. New or Modified Definitions (Full definition template)
		B. Modified or Deleted Definitions (Definitions Quick Fix)
3. 🗌	REV	ISION CONCORDANCE LIST (RCL)
4.	CHA	ANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)
5.	CHA	ANGES TO THE CROSS-REFERENCE LIST (CRL)

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1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS D06N - WALL, FLOOR, OR LIKE COVERING MATERIALS, e.g. LINOLEUM, OILCLOTH, ARTIFICIAL LEATHER, ROOFING FELT, CONSISTING OF A FIBROUS WEB COATED WITH A LAYER OF MACROMOLECULAR MATERIAL; FLEXIBLE SHEET MATERIAL NOT OTHERWISE PROVIDED FOR

Type*	<u>Symbol</u>	Indent Level Number of dots (e.g. 0, 1, 2)		Transferred to#
M	D06N2209/1664	2	Releasability	
M	D06N2211/08	1	Cleaningarticles	
M	D06N2211/18	2	Medical, e.g. bandage, prostheses or catheter	

SUBCLASS D07B - ROPES OR CABLES IN GENERAL

Type*		Indent Level Number of dots (e.g. 0, 1, 2)	· · · · · · · · · · · · · · · · · · ·	Transferred to#
M	D07B 2301/45	1	for dia gnosing	

SUBCLASS E04F - FINISHING WORK ON BUILDINGS, e.g. STAIRS, FLOORS

Type*	<u>Symbol</u>	Indent Level Number of dots (e.g. 0, 1, 2)		Transferred to#
M	E04F 2201/044	2	with tongues or grooves comprising elements which are not manufactured in one piece with the sheets, plates or panels but which are permanently fixedly connected to the sheets, plates or panels, e.g. at the factory	

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SUBCLASS E05B - LOCKS; ACCESSORIES THEREFOR; HANDCUFFS

Type*	<u>Symbol</u>	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	E05B 2015/1692	2	{Wires or straps}	
M	E05B 2047/0013	3	{more than one motor for the same function, e.g. for redundancy or increased power}	
M	E05B 2047/0091	1	{Retrofittable electric locks, e.g. an electric module can be attached to an existing manual lock}	
M	E05B 2063/0026	1	{Elongated, e.g. stud-like, striker entering into an opening in which movable detent means engage the elongated striker}	

SUBCLASS H01J - ELECTRIC DISCHARGE TUBES OR DISCHARGE LAMPS

Type*	<u>Symbol</u>	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	H01J2217/04	1	Electrodes	
M	H01J2237/002	1	Cooling arrangements	
M	H01J2237/024	2	Moving components not otherwise provided for	
M	H01J2237/0492	3	Lens systems	
M	H01J2237/141	4	Coils	
M	H01J2237/1538	2	Space charge (Boersch) effect compensation	
M	H01 J2237/16	1	Vessels	
M	H01J2237/204	2	Means for introducing and/or outputting objects	
M	H01J2237/2065	3	Temperature variations	
M	H01J2237/21	1	Focus a djustment	
M	H01J2237/22	1	Treatment of data	
M	H01J2237/24528	4	Direction of beam or parts thereof in view of the optical axis, e.g. beam angle, angular distribution, beam divergence, beam convergence or beam landing angle on sample or workpiece	
M	H01J2237/2608	4	with environmental specimen chamber	
M	H01J2237/2826	3	Calibration	
M	H01J2237/30433	3	System calibration	
M	H01J2237/3045	4	Deflection calibration	
M	H01J2237/31732	3	Depositing thin layers on selected microareas	
M	H01J2237/31798	5	detecting pattern defects	

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SUBCLASS H01L - SEMICONDUCTOR DEVICES NOT COVERED BY CLASS H10

Type*	<u>Symbol</u>	Indent Level Number of dots (e.g. 0, 1, 2)	Title "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
M	H01L2224/0383	5	Reworking, e.g. shaping	
M	H01L 2224/05187	8	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L 2224/05287	10	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L 2224/05387	11	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L2224/05487	11	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L 2224/05687	8	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L2224/05787	10	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L 2224/05887	11	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L 2224/05987	11	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L2224/0912	6	Layout	
M	H01L2224/1183	5	Reworking, e.g. shaping	
M	H01L 2224/13187	8	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L 2224/13287	10	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L 2224/13387	11	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L2224/13487	11	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L 2224/13687	8	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L 2224/13787	10	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L 2224/13887	11	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L 2224/13987	11	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L2224/1712	6	Layout	
M	H01L2224/2783	5	Reworking, e.g. shaping	
M	H01L2224/29021	7	the layer connector being disposed in a recess of the surface	
M	H01L 2224/29187	8	Ceramics, e.g. crystalline carbides, nitrides or oxides	

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M	H01L 2224/29287	10	Ceramics, e.g. crystalline carbides, nitrides or oxides
M	H01L2224/29387	11	Ceramics, e.g. crystalline carbides, nitrides or oxides
M	H01L2224/29487	11	Ceramics, e.g. crystalline carbides, nitrides or oxides
M	H01L2224/29687	8	Ceramics, e.g. crystalline carbides, nitrides or oxides
M	H01L2224/29787	10	Ceramics, e.g. crystalline carbides, nitrides or oxides
M	H01L2224/29887	11	Ceramics, e.g. crystalline carbides, nitrides or oxides
M	H01L2224/29987	11	Ceramics, e.g. crystalline carbides, nitrides or oxides
M	H01L2224/3312	6	Layout
M	H01L2224/37187	8	Ceramics, e.g. crystalline carbides, nitrides or oxides
M	H01L2224/37287	10	Ceramics, e.g. crystalline carbides, nitrides or oxides
M	H01L2224/37387	11	Ceramics, e.g. crystalline carbides, nitrides or oxides
M	H01L2224/37487	11	Ceramics, e.g. crystalline carbides, nitrides or oxides
M	H01L2224/37687	8	Ceramics, e.g. crystalline carbides, nitrides or oxides
M	H01L2224/37787	10	Ceramics, e.g. crystalline carbides, nitrides or oxides
M	H01L2224/37887	11	Ceramics, e.g. crystalline carbides, nitrides or oxides
M	H01L2224/37987	11	Ceramics, e.g. crystalline carbides, nitrides or oxides
M	H01L2224/45187	8	Ceramics, e.g. crystalline carbides, nitrides or oxides
M	H01L2224/45287	10	Ceramics, e.g. crystalline carbides, nitrides or oxides
M	H01L2224/45387	11	Ceramics, e.g. crystalline carbides, nitrides or oxides
M	H01L2224/45487	11	Ceramics, e.g. crystalline carbides, nitrides or oxides
M	H01L2224/45687	8	Ceramics, e.g. crystalline carbides, nitrides or oxides
M	H01L2224/45787	10	Ceramics, e.g. crystalline carbides, nitrides or oxides
M	H01L2224/45887	11	Ceramics, e.g. crystalline carbides, nitrides or oxides
M	H01L2224/45987	11	Ceramics, e.g. crystalline carbides, nitrides or oxides
M	H01L2224/48687	9	Ceramics, e.g. crystalline carbides, nitrides or oxides

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M	H01L2224/48787	9	Ceramics, e.g. crystalline carbides, nitrides or	
IVI		Э 	oxides	
M	H01L2224/48887	9	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L2224/80379	4	Material	
M	H01L2224/80487	6	Ceramics, e.g. crystalline carbides, nitrides or	
	XX0.1X 0.00 1/0.05 05		oxides	
M	H01L 2224/80587	8	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L 2224/80687	9	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L2224/80787	9	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L 2224/80901	4	Pressing a bonding a rea against another bonding area by means of a further bonding a rea or connector	
M	H01L2224/81379	4	Material	
M	H01L 2224/81487	6	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L 2224/81587	8	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L 2224/81687	9	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L 2224/81787	9	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L 2224/81901	4	Pressing the bump connector against the bonding areas by means of another connector	
M	H01L2224/83379	4	Material	
M	H01L 2224/83487	6	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L 2224/83587	8	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L 2224/83687	9	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L 2224/83787	9	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L 2224/84487	6	Cera mics, e.g. crystalline carbides, nitrides or oxides	
M	H01L2224/84587	8	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L2224/84687	9	Cera mics, e.g. crystalline carbides, nitrides or oxides	
M	H01L2224/84787	9	Cera mics, e.g. crystalline carbides, nitrides or oxides	
M	H01L2224/85487	6	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L2224/85587	8	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L 2224/85687	9	Ceramics, e.g. crystalline carbides, nitrides or oxides	

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M	H01L 2224/85787	9	Ceramics, e.g. crystalline carbides, nitrides or oxides	
M	H01L 2924/16174	8	Ceramics, e.g. crystalline carbides, nitrides or oxides	

SUBCLASS H03K-PULSE TECHNIQUE

Type*	<u>Symbol</u>	<u>Indent</u>	<u>Title</u>	Transferred to#
		<u>Level</u>	"CPC only" text should normally be	
		Number of	enclosed in {curly brackets}**	
		dots (e.g. 0,		
		<u>1,2)</u>		
M	H03K 2217/96015	3	Constructional details for touch switches	

SUBCLASS H04M-TELEPHONIC COMMUNICATION

Type*	<u>Symbol</u>	Indent Level Number of dots (e.g. 0,		Transferred to#
M	H04M 2215/7886	2	Apply cheapest or best package, e.g. selection a mong a vaila ble tariffs or packages	
M	H04M 2250/12	1	including a sensor for measuring a physical value, e.g. temperature or motion	

SUBCLASS H04N - PICTORIAL COMMUNICATION, e.g. TELEVISION

Type*	<u>Symbol</u>	Indent Level Number of dots (e.g. 0, 1, 2)		Transferred to#
M	H04N 2201/0013	2	Arrangements for the control of the connected apparatus by the still picture apparatus	
M	H04N 2201/0044	3	Connecting to a plurality of different apparatus; Using a plurality of different connectors	
M	H04N 2201/0074	2	Arrangements for the control of a still picture apparatus by the connected apparatus	
M	H04N 2201/0448	3	for positioning scanning elements not otherwise provided for; Aligning, e.g. using an a lignment calibration pattern	

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M H04N 2201/04743 4 by detecting the image directly	ſ	M		4	by detecting the image directly
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SUBCLASS H04Q - SELECTING

Type*	<u>Symbol</u>	Indent Level Number of dots (e.g. 0, 1, 2)		Transferred to#
M	H04Q2213/13136	1	Collect call	
M	H04Q2213/13336	1	Store & forward, messaging systems	
M	H04Q2213/13402	1	Data transmission out of voice frequency band	
M	H04Q2213/13524	1	cost management	
M	H04Q2213/407	1	Push-button dialling	

SUBCLASS H05K - PRINTED CIRCUITS; CASINGS OR CONSTRUCTIONAL DETAILS OF ELECTRIC APPARATUS; MANUFACTURE OF ASSEMBLAGES OF ELECTRICAL COMPONENTS

Type*	<u>Symbol</u>	<u>Indent</u>	<u>Title</u>	Transferred to#
		Level	"CPC only" text should normally be	
		Number of dots (e.g. 0,	enclosed in {curly brackets}**	
		1,2)		
		<u> </u>		
M	H05K 2201/0133	3	Ela stomeric or compliant polymer	
M	H05K2201/0233	4	Deformable particles	
M	H05K2201/0236	4	Plating catalyst as filler in insulating material	
M	H05K 2201/0248	4	Needles or elongated particles; Elongated cluster of chemically bonded particles	
M	H05K2201/0251	4	Non-conductive microfibers	
M	H05K 2201/0314	3	Ela stomeric connector or conductor, e.g. rubber with metallic filler	
M	H05K 2201/0338	4	La yered conductor, e.g. la yered metal substrate, la yered finish la yer or la yered thin film adhesion la yer	
M	H05K 2201/0373	4	Conductors having a fine structure, e.g. providing a plurality of contact points with a structured tool	
M	H05K 2201/066	2	Heatsink mounted on the surface of the printed circuit board [PCB]	
M	H05K2201/09036	3	Recesses or grooves in insulating substrate	
M	H05K2201/09045	3	Locally raised area or protrusion of insulating substrate	
M	H05K 2201/0919	3	Exposing inner circuit layers or metal planes at the side edge of the printed circuit board [PCB] or at the walls of large holes	
M	H05K 2201/09245	4	Crossing layout	

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M	H05K 2201/09281	4	Layout details of a single conductor	
M	H05K2201/09381	4	Shape of non-curved single flat metallic pad, land	
			or exposed part thereof; Shape of electrode of	
			lea dless component	
M	H05K2201/094	4	Array of pads or lands differing from one another,	
			e.g. in size, pitch or thickness; Using different	
			connections on the pads	
M	H05K 2201/09463	4	Partial lands, i.e. lands or conductive rings not	
			completely surrounding the hole	
M	H05K 2201/09472	4	Recessed pad for surface mounting; Recessed	
	H051/ 2201/005/2	4	electrode of component Metal filled via	
M	H05K 2201/09563	4		
M	H05K 2201/09609	4	Via grid, i.e. two-dimensional array of vias or holes in a single plane	
M	H05K 2201/09627	4	Special connections between adjacent vias, not for grounding vias	
M	H05K 2201/09663	4	Divided la yout, i.e. conductors divided in two or	
141	1103182201/07003	7	more parts	
M	H05K 2201/09672	4	Superposed la yout, i.e. in different planes	
M	H05K 2201/09754	4	Connector integrally incorporated in the printed	
1.1	1100112201709701		circuit board [PCB] or in housing	
M	H05K2201/09827	3	Tapered, e.g. tapered hole, via or groove	
M	H05K2201/09872	3	Insulating conformal coating	
M	H05K 2201/10234	3	Metallic balls	
M	H05K 2201/10242	3	Metallic cylinders	
M	H05K 2201/1025	3	Metallic discs	
M	H05K 2201/10272	3	Busbars, i.e. thick metal bars mounted on the	
			printed circuit board [PCB] as high-current	
			conductors	
M	H05K 2201/1034	3	Edge terminals, i.e. separate pieces of metal	
			attached to the edge of the printed circuit board [PCB]	
M	H05K 2201/10492	4	Electrically connected to another device	
M	H05K 2201/105	4	Mechanically attached to another device	
M	H05K 2201/10575	3	Insulating foil under component	
M	H05K 2201/10606	3	Permanent holder for component or auxiliary	
			printed circuits mounted on a printed circuit board	
3.4	11051/2201/2026		[PCB]	
M	H05K 2201/2036	2	Permanent spacer or stand-off in a printed circuit or printed circuit assembly	
M	H05K 2201/2072	2	Anchoring, i.e. one structure gripping into a nother	
M	H05K2203/025	2	Abrading, e.g. grinding or sand blasting	
M	H05K 2203/0353	2	Making conductive layer thin, e.g. by etching	
M	H05K 2203/04	1	Soldering or other types of metallurgic bonding	
M	H05K 2203/0597	3	Resist applied over the edges or sides of	
			conductors, e.g. for protection during etching or	
N #	11051/2202/066		plating Transfer la minetia a of in sulpting material a g	
M	H05K 2203/066	2	Transfer la minating of insulating material, e.g. resist as a whole layer, not as a pattern	
			resist as a whole tayer, not as a pattern	

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M	H05K2203/0709	3	Catalytic ink or adhesive for electroless plating
M	H05K 2203/105	2	Using an electrical field; Special methods of applying an electric potential
M	H05K 2203/1163	2	Chemical reaction, e.g. heating solder by exothermic reaction
M	H05K 2203/122	2	Organic non-polymeric compounds, e.g. oil, wax or thiol
M	H05K 2203/128	2	Molten metals, e.g. casting thereof, or melting by heating and excluding molten solder
M	H05K 2203/1372	3	Coating by using a liquid wave
M	H05K 2203/1438	2	Treating holes a fter a nother process, e.g. coating holes a fter coating the substrate

*N = new entries where reclassification into entries is involved; C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; T = existing entries with enlarged file scope, which receive documents from C or D entries, e.g. when a limiting reference is removed from the entry title; M = entries with no change to the file scope (no reclassification); D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed; U = entries that are unchanged.

NOTES:

- **No {curly brackets} are used for titles in CPC only <u>subclasses</u>, e.g. C12Y, A23Y; 2000 series symbol titles of groups found at the end of schemes (orthogonal codes); or the Y section titles. The {curly brackets} <u>are</u> used for 2000 series symbol titles found interspersed throughout the main trunk schemes (breakdown codes).
- U groups: it is obligatory to display the required "anchor" symbol (U group), i.e. the entry immediately preceding a new group or an array of new groups to be created (in case new groups are not clearly subgroups of C-type groups). Always include the symbol, indent level and title of the U group in the table above.
- All entry types should be included in the scheme changes table above for better understanding of the overall scheme change picture. Symbol, indent level, and title are required for all types.
- "Transferred to" column <u>must</u> be completed for all C, D, F, and Q type entries. F groups will be deleted once reclassification is completed.
- When multiple symbols are included in the "Transferred to" column, avoid using ranges of symbols in order to be as precise as possible.
- For administrative transfer of documents, the following text should be used: "<administrative transfer to XX>", "<administrative transfer to XX and YY simultaneously>", or "<administrative transfer to XX, YY, ...and ZZ simultaneously>" when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise
 indicated.
- Administrative transfer to 2000/Y series groups is assumed to be "additional information".
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations "ADD" or "INV": <administrative transfer to XX ADD>, <administrative transfer to XX INV>, or <administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the "D" entries of 2000-series or Y-series groups may not require a destination ("Transferred to") symbol, however it is required to specify "<no transfer>" in the "Transferred to" column for such cases.
- For finalization projects, the deleted "F" symbols should have <no transfer> in the "Transferred to" column.or more details about the types of scheme change, see CPC Guide.

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2. A. DEFINITIONS (new)

D06N 2209/1664

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Adhesive allowing removal of the whole carpet	D06N 2213/066
Releasability between at least two of the layers of the	D06N 2213/068
backing in carpets, rugs or synthetic lawn	

D06N 2211/08

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

- 1		
	Personal care	D06N 2211/24

D06N 2211/18

References

Informative references

Patches, e.g. medical patches or repair patches	D06N 2211/22
Packaging for decorative or sun protection articles	D06N 2211/20

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D07B 2301/45

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Signals indicating failure or excessive conditions,	D07B 2301/30
e.g. overheating	

E04F 2201/044

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Separate tongues or interlocking keys, e.g. joining	E04F 2201/0523
mouldings of circular, square or rectangular shape	

E05B 2015/1692

References

Informative references

Wound springs arrangements in locks	E05B 2015/0403
1 vvodila opringo arrangomento in locito	_00D _0100

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E05B 2047/0013

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Electric spare devices, e.g. auxiliary batteries or	E05B 2047/0087
capacitors for back up	

E05B 2047/0091

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Devices of electrically driving keys, e.g. to	E05B 2047/0083
facilitate opening	

E05B 2063/0026

References

Informative references

Stud-like keepers	E05B 2015/0235

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H01J 2217/04

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Electrodes for display panels, e.g. not making use of alternating current	H01J 2217/49207
Electrodes common to discharge tubes	H01J 2201/00

H01J 2237/1538

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Neutralising arrangements	H01J 2237/0041

H01J 2237/31798

References

Informative references

Pattern inspection	H01J 2237/2817
Direct-write microstructures	H01J 2237/31735
Etching microareas	H01J 2237/3174

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H01L 2224/0383

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Thermal post-treatment of the bonding area, e.g.	H01L 2224/03849
reflowing	

H01L 2224/05187

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Material with principal constituent being glasses,	H01L 2224/05188
e.g. amorphous oxides, nitrides or fluorides	

H01L 2224/05287

References

Informative references

Glass ceramics, e.g. amorphous oxides, nitrides	H01L 2224/05288
or fluorides	

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H01L 2224/05387

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides	H01L 2224/05388
or fluorides	

H01L 2224/05487

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides	H01L 2224/05488
or fluorides	

H01L 2224/05687

References

Informative references

Glass ceramics, e.g. amorphous oxides, nitrides	H01L 2224/05688
or fluorides	

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H01L 2224/05787

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides	H01L 2224/05788
or fluorides	

H01L 2224/05887

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides	H01L 2224/05888
or fluorides	

H01L 2224/05987

References

Informative references

Glass ceramics, e.g. amorphous oxides, nitrides	H01L 2224/05988
or fluorides	

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H01L 2224/0912

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Layout of bonding are	as prior to the connecting process	H011 2224/0612
Layout or bonding are	as prior to the connecting process	TUIL 2224/0012

H01L 2224/1183

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Thermal post-treatment of the bump connector,	H01L 2224/11849
e.g. reflowing	

H01L 2224/13187

References

Informative references

Glass ceramics, e.g. amorphous oxides, nitrides or	H01L 2224/13188
fluorides	

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H01L 2224/13287

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides or	H01L 2224/13288
fluorides	

H01L 2224/13387

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides or	H01L 2224/13388
fluorides	

H01L 2224/13487

References

Informative references

Glass ceramics, e.g. amorphous oxides, nitrides or	H01L 2224/13488
fluorides	

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H01L 2224/13687

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides or	H01L 2224/13688
fluorides	

H01L 2224/13787

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides or	H01L 2224/13788
fluorides	

H01L 2224/13887

References

Informative references

Glass ceramics, e.g. amorphous oxides, nitrides or	H01L 2224/13888
fluorides	

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H01L 2224/13987

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides or	H01L 2224/13988
fluorides	

H01L 2224/1712

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Layout of bump connectors prior to the connecting	H01L 2224/1412
process	

H01L 2224/2783

References

Informative references

Thermal post-treatment of the layer connector, e.g.	H01L 2224/27849
reflowing	

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H01L 2224/29021

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Layer connector being at least partially embedded in the	H01L 2224/29022
surface	

H01L 2224/29187

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides or	H01L 2224/29188
fluorides	

H01L 2224/29287

References

Informative references

Glass ceramics, e.g. amorphous oxides, nitrides or	H01L 2224/29288
fluorides	

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H01L 2224/29387

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides or	H01L 2224/29388
fluorides	

H01L 2224/29487

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides or	H01L 2224/29488
fluorides	

H01L 2224/29687

References

Informative references

Glass ceramics, e.g. amorphous oxides, nitrides or	H01L 2224/29688
fluorides	

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H01L 2224/29787

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides or	H01L 2224/29788
fluorides	

H01L 2224/29887

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides or	H01L 2224/29888
fluorides	

H01L 2224/29987

References

Informative references

Glass ceramics, e.g. amorphous oxides, nitrides or	H01L 2224/29988
fluorides	

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H01L 2224/3312

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Layout of layer connectors prior to the connecting process H01L 2224/3012

H01L 2224/37187

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides or	H01L 2224/37188
fluorides	

H01L 2224/37287

References

Informative references

Glass ceramics, e.g. amorphous oxides, nitrides or	H01L 2224/37288
fluorides	

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H01L 2224/37387

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides or	H01L 2224/37388
fluorides	

H01L 2224/37487

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides or	H01L 2224/37488
fluorides	

H01L 2224/37687

References

Informative references

Glass ceramics, e.g. amorphous oxides, nitrides or	H01L 2224/37688
fluorides	

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H01L 2224/37787

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides or	H01L 2224/37788
fluorides	

H01L 2224/37887

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides or	H01L 2224/37888
fluorides	

H01L 2224/37987

References

Informative references

Glass ceramics, e.g. amorphous oxides, nitrides or	H01L 2224/37988
fluorides	

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H01L 2224/45187

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides	H01L 2224/45188
or fluorides	

H01L 2224/45287

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides	H01L 2224/45288
or fluorides	

H01L 2224/45387

References

Informative references

Glass ceramics, e.g. amorphous oxides, nitrides	H01L 2224/45388
or fluorides	

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H01L 2224/45487

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides	H01L 2224/45488
or fluorides	

H01L 2224/45687

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides	H01L 2224/45688
or fluorides	

H01L 2224/45787

References

Informative references

Glass ceramics, e.g. amorphous oxides, nitrides	H01L 2224/45788
or fluorides	

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H01L 2224/45887

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides	H01L 2224/45888
or fluorides	

H01L 2224/45987

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides	H01L 2224/45988
or fluorides	

H01L 2224/48687

References

Informative references

Glass ceramics, e.g. amorphous oxides, nitrides	H01L 2224/48688
or fluorides	

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H01L 2224/48787

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides	H01L 2224/48788
or fluorides	

H01L 2224/48887

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides	H01L 2224/48888
or fluorides	

H01L 2224/80379

References

Informative references

Material of the bonding area prior to the connecting	H01L 2224/05099,
process	H01L 2224/05599

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H01L 2224/80487

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics e.g. amorphous oxides, nitrides	H01L 2224/80488
or fluorides	

H01L 2224/80587

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides	H01L 2224/80588
or fluorides	

H01L 2224/80687

References

Informative references

Glass ceramics, e.g. amorphous oxides, nitrides	H01L 2224/80688
or fluorides	

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H01L 2224/80787

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides	H01L 2224/80788
or fluorides	

H01L 2224/80901

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Detachable connecting means consisting of	H01L 2224/72
mechanical auxiliary parts connecting the device, e.g.	
pressure contacts using springs or clips	

H01L 2224/81379

References

Informative references

Material of the bump connector prior to the connecting	H01L 2224/13099,
process	H01L 2224/13599

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H01L 2224/81487

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides	H01L 2224/81488
or fluorides	

H01L 2224/81587

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides	H01L 2224/81588
or fluorides	

H01L 2224/81687

References

Informative references

Glass ceramics, e.g. amorphous oxides, nitrides	H01L 2224/81688
or fluorides	

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H01L 2224/81787

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides, nitrides	H01L 2224/81788
or fluorides	

H01L 2224/81901

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Detachable connecting means consisting of	H01L 2224/72
mechanical auxiliary parts connecting the device,	
e.g. pressure contacts using springs or clips	

H01L 2224/83379

References

Informative references

Core member material of the layer connector prior to	H01L 2224/29099
the connecting process	
Coating material of the layer connector prior to the	H01L 2224/29599
connecting process	

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H01L 2224/83487

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides,	H01L 2224/83488
nitrides or fluorides	

H01L 2224/83587

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides,	H01L 2224/83588
nitrides or fluorides	

H01L 2224/83687

References

Informative references

Glass ceramics, e.g. amorphous oxides,	H01L 2224/83688
nitrides or fluorides	

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PROJECT MP12189

H01L 2224/83787

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides,	H01L 2224/83788
nitrides or fluorides	

H01L 2224/84487

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides,	H01L 2224/84488
· ·	
nitrides or fluorides	

H01L 2224/84587

References

Informative references

Glass ceramics, e.g. amorphous oxides,	H01L 2224/84588
nitrides or fluorides	

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PROJECT MP12189

H01L 2224/84687

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides,	H01L 2224/84688
nitrides or fluorides	

H01L 2224/84787

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides,	H01L 2224/84788
nitrides or fluorides	

H01L 2224/85487

References

Informative references

Glass ceramics, e.g. amorphous oxides,	H01L 2224/85488
nitrides or fluorides	

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PROJECT MP12189

H01L 2224/85587

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides,	H01L 2224/85588
nitrides or fluorides	

H01L 2224/85687

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass ceramics, e.g. amorphous oxides,	H01L 2224/85688
nitrides or fluorides	

H01L 2224/85787

References

Informative references

Glass ceramics, e.g. amorphous oxides,	H01L 2224/85788
nitrides or fluorides	

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H01L 2924/16174

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

The bump connector connecting between a	H01L 2224/16175
semiconductor or solid-state body and an	
item not being a semiconductor or solid-state	
body, the item being metallic	

H03K 2217/96015

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Capacitive touch switches	H03K 2217/9607

H04M 2215/7886

References

Informative references

Least cost routing, i.e. provision for selecting the	H04M 2215/42
lowest cost tariff	

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H04M 2250/12

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Telephonic subscriber devices including a GPS signal	H04M 2250/10
receiver	

H04N 2201/0013

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Arrangements for the control of a still picture apparatus by	H04N2201/0074
the connected apparatus	
Control of image communication with the connected	H04N 2201/0015
apparatus, e.g. signalling capability	

H04N 2201/0044

References

Informative references

Connection via a network	H04N 2201/0039

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H04N 2201/0074

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Arrangements for the control of the connected apparatus by the still picture apparatus	H04N 2201/0013
Control of image communication with the connected	H04N 2201/0015
apparatus, e.g. signalling capability	

H04N 2201/0448

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

ĺ	Arrangements for positioning elements within a	H04N 2201/02406
	scanning head	

H04N 2201/04743

References

Informative references

Detection of scanning velocity or position on the	H04N 2201/04717
scanned sheet, e.g. a reference sheet	

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H04Q 2213/13136

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Information service, downloading of	H04Q 2213/13376
information or 0800/0900 services	

H04Q 2213/13336

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Electronic mail	H04Q 2213/13375

H04Q 2213/13402

References

Informative references

Asymmetrical two-way transmission, e.g.	H04Q 2213/13039
ADSL or HDSL	

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H04Q 2213/13524

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Least cost routing or LCR	H04Q 2213/13138

H05K 2201/0133

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Elastomeric connector or conductor, e.g.	H05K 2201/0314
rubber with metallic filler	

H05K 2201/0233

References

Informative references

Insulating particles having an electrically	H05K 2201/0221
conductive coating	

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H05K 2201/0236

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Catalytic ink or adhesive for electroless plating	H05K 2203/0709
dataly to link of dancoive for electroless plating	110011 2200/0100

H05K 2201/0248

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Non-conductive microfibers	H05K 2201/0251
Stacked conductors	H05K 2201/0379

H05K 2201/0251

References

Informative references

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H05K 2201/0314

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Elastomeric or compliant polymer	H05K 2201/0133

H05K 2201/0338

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Etched tri-metal structure, i.e. metal layers or	H05K 2201/0361
metal patterns on both sides of a different	
central metal layer which is later at least	
partly etched	

H05K 2201/0373

References

Informative references

Providing micro- or nanometer scale roughness	H05K 2203/0307
on a metal surface, e.g. by plating of nodules or	
dendrites	

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H05K 2201/066

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Metallic blocks or heatsinks completely inserted in	H05K 2201/10416
a printed circuit board [PCB]	

H05K 2201/09036

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Recess in conductor, e.g. in pad or in metallic	H05K 2201/09745
substrate	

H05K 2201/09045

References

Informative references

B: : :	11051/ 0004/00040
Rigid curved substrate	H05K 2201/09018

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PROJECT MP12189

H05K 2201/0919

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Shielding provided by an inner layer of printed circuit	H05K 2201/0723
board [PCB]	

H05K 2201/09245

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Alternating conductors, e.g. alternating different	H05K 2201/097
shaped pads, twisted pairs or alternating components	

H05K 2201/09281

References

Informative references

Meander	H05K 2201/09263
Layout details of angles or corners	H05K 2201/09272

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H05K 2201/09381

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Notches in edge pads	H05K 2201/09181

H05K 2201/094

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Using different types of conductors	H05K 2201/0391
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H05K 2201/09463

References

Informative references

F	Plated through-holes	or blind vias without lands	H05K 2201/09545

DATE: AUGUST 1,2024

PROJECT MP12189

H05K 2201/09472

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Recess in conductor, e.g. in pad or in metallic	H05K 2201/09745
substrate	

H05K 2201/09563

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Plated through-holes or plated blind vias filled with	H05K 2201/0959
insulating material	

H05K 2201/09609

References

Informative references

Interposers attached to or integrated in a printed	H05K 2201/10378
circuit board [PCB]	

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H05K 2201/09627

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Redundant conductors or connections, i.e. more	H05K 2201/0979
than one current path between two points	

H05K 2201/09663

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Branched layout	H05K 2201/09254
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H05K 2201/09672

References

Informative references

Parallel layout	H05K 2201/09236

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H05K 2201/09754

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Non-printed connector	H05K 2201/10189
Non-printed Connector	11031 2201/10103

H05K 2201/09827

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Bevelled, chamfered or tapered edge	H05K 2201/09154
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H05K 2201/09872

References

Informative references

Foil encapsulation	, e.g. of mounted components	H05K 2203/1311
i oli cilcapsulation	, e.g. or mounted components	11001 2200/1011

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H05K 2201/10234

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Solder performs in the shape of solder balls	H05K 2203/041
	110011 2200/071

H05K 2201/10242

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Small performs other than balls, e.g. discs, cylinders	H05K 2203/0415
or pillars	

H05K 2201/1025

References

Informative references

Small performs other than balls, e.g. discs, cylinders	H05K 2203/0415
or pillars	

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H05K 2201/10272

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

H05K 2201/1034

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Structure of the conductor or tab	H05K 2201/0397
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H05K 2201/10492

References

Informative references

Mounted components directly electrically	H05K 2201/1053
connected to each other, i.e. not via the printed	
circuit board [PCB]	

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H05K 2201/105

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Attached components	H05K 2201/10537

H05K 2201/10575

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Permanent spacer or stand-off in a printed	H05K 2201/2036
circuit or printed circuit assembly	

H05K 2201/10606

References

Informative references

Clamping a component by an element or a set of	H05K 2201/10393
elements	

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H05K 2201/2036

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Pattern for applying drops or paste or applying a	H05K 2203/0545
pattern made of drops or paste	

H05K 2201/2072

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Providing micro- or nanometer scale roughness on	H05K 2203/0307
a metal surface, e.g. by plating of nodules or	
dendrites	

H05K 2203/025

References

Informative references

Deburring, rounding,	bevelling or smoothing conductor	H05K 2203/0346
edges	-	

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H05K 2203/0353

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Etching selective parts of metal substrate through	H05K 2203/0369
part of its thickness, e.g. using etch resist	

H05K 2203/04

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Molten metals, e.g. casting thereof, or melting by	H05K 2203/128
heating and excluding molten solder	

H05K 2203/0597

References

Informative references

Shape or layout details	H05K 2201/09818

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H05K 2203/066

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Transfer of pre-fabricated insulating pattern	H05K 2203/0537
---	----------------

H05K 2203/0709

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Plating catalyst as filler in insulating material	H05K 2201/0236
---	----------------

H05K 2203/105

References

Informative references

Electroplating, e.g. finish plating	H05K 2203/0723
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PROJECT MP12189

H05K 2203/1163

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Oxidising metal	H05K 2203/0315

H05K 2203/122

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Using solvent, e.g. for cleaning or regulating solvent	H05K 2203/0783
content of pastes or coatings for adjusting the	
viscosity	

H05K 2203/128

References

Informative references

Spraying small metal particles or droplets	H05K 2203/1344
of molten metal	

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H05K 2203/1372

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Soldering or other types of metallurgic bonding	H05K 2203/04
Coldering of other types of inclandigic boriding	110311 2203/07

H05K 2203/1438

References

Informative references

Γ	Metal used as mask for etching vias, e.g. by	H05K 2203/0554
	laser ablation	

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PROJECT MP12189

2. A. DEFINITIONS (modified)

H01J 2237/002

References

Delete: The Limiting references section.

Insert: The following new Informative references section:

Informative references

Attention is drawn to the following places, which may be of interest for search:

Maintaining constant desired temperature of	H01J 2237/2001
objects being observed or treated	

H01J 2237/024

References

<u>Delete</u>: The Limiting references section.

<u>Insert</u>: The following new Informative references section:

Informative references

Movable supports of diaphragms, i.e. for changing between differently sized apertures	H01J 2237/0458
Movement of the objects being observed or	H01J 2237/202
treated	

DATE: AUGUST 1,2024

PROJECT MP12189

H01J 2237/0492

References

<u>Delete</u>: The Limiting references section.

<u>Insert</u>: The following new Informative references section:

Informative references

Attention is drawn to the following places, which may be of interest for search:

H01J 2237/141

References

<u>Delete</u>: The Limiting references section.

Insert: The following new Informative references section:

Informative references

Magnetic lenges with superconducting soils	H01J 2237/142
Magnetic lenses with superconducting coils	TUIJ 2231/142

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PROJECT MP12189

H01J 2237/16

References

<u>Delete</u>: The Limiting references section.

<u>Insert</u>: The following new Informative references section:

Informative references

Attention is drawn to the following places, which may be of interest for search:

H01J 2237/0268

H01J 2237/204

References

Delete: The Limiting references section.

<u>Insert</u>: The following new Informative references section:

Informative references

Vacuum locks	H01J 2237/184

DATE: AUGUST 1,2024

PROJECT MP12189

H01J 2237/2065

References

<u>Delete</u>: The Limiting references section.

<u>Insert</u>: The following new Informative references section:

Informative references

Attention is drawn to the following places, which may be of interest for search:

Maintaining constant desired temperature of the objects	H01J 2237/2001
being observed or treated	

H01J 2237/21

References

Delete: The Limiting references section.

Insert: The following new Informative references section:

Informative references

Individual lenses	H01J 2237/10

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H01J 2237/22

References

<u>Delete</u>: The Limiting references section.

<u>Insert</u>: The following new Informative references section:

Informative references

Attention is drawn to the following places, which may be of interest for search:

Signal processing, e.g. mixing of two or more signals	H01J 2237/24495
Image data processing or generation	G06T

H01J 2237/2608

References

<u>Delete</u>: The Limiting references section.

Insert: The following new Informative references section:

Informative references

Environmental cells	H01J 2237/2003

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H01J 2237/2826

References

<u>Delete</u>: The Limiting references section.

<u>Insert</u>: The following new Informative references section:

Informative references

Attention is drawn to the following places, which may be of interest for search:

System calibration of electron or ion beam tubes for	H01J 2237/30433
processing objects	

H01J 2237/30433

References

Delete: The Limiting references section.

Insert: The following new Informative references section:

Informative references

Calibration of electron or ion microscopes	H01J 2237/2826

DATE: AUGUST 1,2024

PROJECT MP12189

H01J 2237/3045

References

<u>Delete</u>: The Limiting references section.

Informative references

Replace: The Informative references table with the following revised table:

Means for deflecting or directing discharge	H01J 2237/15
Scanning the beam	H01J 2237/30483

H01J 2237/31732

References

Delete: The Limiting references section.

<u>Insert</u>: The following new Informative references section:

Informative references

	-
lon plating	H01J 2237/3142