EUROPEAN PATENT OFFICE U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1412

DATE: FEBRUARY 1, 2023

PROJECT RP11761

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

Action	Subclass	Group(s)
SCHEME:		
Symbols Deleted:	H01L	27/16, 27/18, 27/20, 27/26, 27/265
	H01L	35/00, 35/02, 35/04, 35/06, 35/08, 35/10,
		35/12, 35/14, 35/16, 35/18, 35/20, 35/22,
		35/225, 35/24, 35/26, 35/28, 35/30, 35/32,
		35/325, 35/34
	H01L	37/00, 37/02, 37/025, 37/04
	H01L	39/00, 39/005, 39/02, 39/025, 39/04,
		39/045, 39/06, 39/08, 39/10, 39/12,
		39/121, 39/123, 39/125, 39/126, 39/128,
		39/14, 39/141, 39/143, 39/145, 39/146,
		39/148, 39/16, 39/18, 39/20, 39/22,
		39/221, 39/223, 39/225, 39/226, 39/228,
		39/24, 39/2403, 39/2406, 39/2409,
		39/2412, 39/2416, 39/2419, 39/2422,
		39/2425, 39/2429, 39/2432, 39/2435,
		39/2438, 39/2441, 39/2445, 39/2448,
		39/2451, 39/2454, 39/2458, 39/2461,
		39/2464, 39/2467, 39/247, 39/2474,
		39/2477, 39/248, 39/2483, 39/2487, 39/249, 39/2493, 39/2496
	H01L	41/00, 41/02, 41/04, 41/042, 41/044,
	HOIL	41/047, 41/0471, 41/0472, 41/0474,
		41/0475, 41/0477, 41/0478, 41/053,
		41/0533, 41/0536, 41/06, 41/08, 41/0805,
		41/081, 41/0815, 41/082, 41/0825,
		41/083, 41/0831, 41/0833, 41/0835,
		41/0836, 41/0838, 41/087, 41/09,
		41/0906, 41/0913, 41/092, 41/0926,
		41/0933, 41/094, 41/0946, 41/0953,
		41/096, 41/0966, 41/0973, 41/098,
		41/0986, 41/0993, 41/107, 41/113,
		41/1132, 41/1134, 41/1136, 41/1138,
		41/12, 41/125, 41/16, 41/18, 41/183,
		41/187, 41/1871, 41/1873, 41/1875,
		41/1876, 41/1878, 41/193, 41/20, 41/22,
		41/23, 41/25, 41/253, 41/257, 41/27,
		41/273, 41/277, 41/29, 41/293, 41/297,
		41/31, 41/311, 41/312, 41/313, 41/314,
		41/316, 41/317, 41/318, 41/319, 41/33,
		41/331, 41/332, 41/333, 41/335, 41/337,
		41/338, 41/339, 41/35, 41/37, 41/39,
		41/41, 41/43, 41/45, 41/47

DATE: FEBRUARY 1, 2023

Action	Subclass	Group(s)
	H01L	43/00, 43/02, 43/04, 43/06, 43/065, 43/08, 43/10, 43/12, 43/14
	H01L	45/00, 45/005, 45/02, 45/04, 45/06, 45/065, 45/08, 45/085, 45/10, 45/12, 45/1206, 45/1213, 45/122, 45/1226, 45/1233, 45/124, 45/1246, 45/1253, 45/126, 45/1266, 45/1273, 45/128, 45/1286, 45/1293, 45/14, 45/141, 45/142, 45/143, 45/144, 45/145, 45/146, 45/147, 45/148, 45/149, 45/16, 45/1608, 45/1616, 45/1625, 45/1633, 45/1641, 45/165, 45/1658, 45/1666, 45/1675, 45/1683, 45/1691 47/00, 47/005, 47/02, 47/023, 47/026
	H01L	49/00, 49/003, 49/006, 49/02
Symbols New:	H10N H10N	SUBCLASS 10/00, 10/01, 10/10, 10/13, 10/17, 10/80, 10/81, 10/813, 10/817, 10/82, 10/85, 10/851, 10/852, 10/853, 10/854, 10/855, 10/8552, 10/8556, 10/856, 10/857
	H10N	15/00, 15/10, 15/15, 15/20
	H10N	19/00, 19/101
	H10N	30/00, 30/01, 30/02, 30/03, 30/04, 30/045, 30/05, 30/053, 30/057, 30/06, 30/063, 30/067, 30/07, 30/071, 30/072, 30/073, 30/074, 30/076, 30/077, 30/078, 30/079, 30/08, 30/081, 30/082, 30/084, 30/085, 30/086, 30/088, 30/089, 30/09, 30/092, 30/093, 30/095, 30/097, 30/098, 30/1051, 30/10513, 30/10516, 30/1061, 30/1071, 30/20, 30/202, 30/2023, 30/2027, 30/204, 30/2041, 30/2042, 30/2043, 30/2044, 30/2045, 30/2046, 30/2047, 30/2048, 30/206, 30/208, 30/30, 30/302, 30/304, 30/306, 30/308, 30/40, 30/50, 30/501, 30/503, 30/505, 30/506, 30/508, 30/60, 30/80, 30/802, 30/804, 30/8542, 30/8548, 30/8554, 30/8561, 30/857, 30/877, 30/878, 30/88, 30/883, 30/886
	H10N	35/00, 35/01, 35/101, 35/80, 35/85
	H10N	39/00
		#0/00 #0/04 #0/40 #0/50 #0/00 F5
	H10N H10N	50/00, 50/01, 50/10, 50/20, 50/80, 50/85 52/00, 52/01, 52/101, 52/80, 52/85

DATE: FEBRUARY 1, 2023

<u>Action</u>	Subclass	Group(s)
	H10N	60/00, 60/01, 60/0128, 60/0156, 60/0184, 60/0212, 60/0241, 60/0268, 60/0296, 60/0324, 60/0352, 60/0381, 60/0408, 60/0436, 60/0464, 60/0492, 60/0521, 60/0548, 60/0576, 60/0604, 60/0632, 60/0661, 60/0688, 60/0716, 60/0744, 60/0772, 60/0801, 60/0828, 60/0856, 60/0884, 60/0912, 60/0941, 60/10, 60/11, 60/12, 60/124, 60/126, 60/128, 60/20, 60/202, 60/203, 60/205, 60/207, 60/208, 60/30, 60/35, 60/355, 60/80, 60/805, 60/81, 60/815, 60/82, 60/83, 60/857, 60/858, 60/99
_	H10N	69/00
	H10N	70/00, 70/011, 70/021, 70/023, 70/026, 70/028, 70/041, 70/043, 70/046, 70/061, 70/063, 70/066, 70/068, 70/10, 70/151, 70/20, 70/231, 70/235, 70/24, 70/245, 70/25, 70/253, 70/257, 70/801, 70/821, 70/823, 70/826, 70/8265, 70/828, 70/841, 70/8413, 70/8416, 70/8418, 70/861, 70/8613, 70/8616, 70/881, 70/882, 70/8822, 70/8825, 70/8828, 70/883, 70/8833, 70/8836, 70/884, 70/8845
	H10N	79/00
	H10N	80/00, 80/01, 80/10, 80/103, 80/107
	H10N	89/00, 89/02
	H10N	97/00
	H10N	99/00, 99/03, 99/05
Warnings Deleted:	H01L	41/00
Warnings New:	H10N	10/855,10/8556
warmings ivew.	H10N	19/00
	H10N	30/00, 30/80, 30/85
	H10N	35/00, 35/80, 35/85
	H10N	39/00
	H10N	50/00, 50/20, 50/85
	H10N	52/85
	H10N	59/00
	H10N	69/00
	H10N	79/00
	H10N	89/00
Notes Deleted:	H01L	39/00
1.5005 Deleted.	H01L	41/293, 41/297
Guidance Headings New:	H10N	10/00
	H10N	30/00
	H10N	50/00
	H10N	60/00

DATE: FEBRUARY 1, 2023

PROJECT RP11761

Action	Subclass	Group(s)
	H10N	70/00
DEFINITIONS:		
Definitions Deleted:	H01L	27/16, 27/18, 27/20, 27/26
(no frozen (F) symbol definitions		
should be deleted)		
	H01L	35/00, 35/04, 35/06, 35/08, 35/10, 35/12,
		35/16, 35/18, 35/20, 35/22, 35/24, 35/26,
		35/30, 35/32, 35/325, 35/34
	H01L	37/00, 37/02, 37/025, 37/04
	H01L	39/00, 39/02, 39/10, 39/12, 39/128, 39/16,
		39/20, 39/2403, 39/2451, 39/2477, 39/248
	H01L	41/00, 41/04, 41/06, 41/16, 41/18, 41/183,
		41/20, 41/22, 41/23, 41/27, 41/29, 41/293,
		41/297, 41/31, 41/311, 41/39, 41/47
	H01L	43/00, 43/02, 43/10
	H01L	45/00, 45/04
	H01L	47/00
	H01L	49/00

The following subclasses/groups are also impacted by this Notice of Changes (indicate subclasses/groups outside of the project scope, such as those listed in the CRL):

A45D, A61B, A61H, B06B, B22F, B23Q, B25J, B60C, B60H, B81B, B81C, C01G, C04B, C09K, D06F, E05B, F01N, F02D, F02M, F03G, F16F, F16K, F23Q, F24F, F25B, F28D, G01C, G01H, G01J, G01K, G01L, G01N, G01R, G04C, G06F, G06N, G08G, G09G, G10K, G11B, G11C, G21D, G21H, H01B, H01C, H01F, H01G, H01H, H01J, H01L, H01M, H02H, H02M, H02N, H02S, H03B, H03F, H03H, H04N, H04R, H05K

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

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

DATE: FEBRUARY 1, 2023

PROJECT RP11761

1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS H01L - SEMICONDUCTOR DEVICES; ELECTRIC SOLID STATE DEVICES NOT OTHERWISE PROVIDED FOR

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}**	<u>Transferred to</u> #
D	H01L27/16	1	including thermoelectric components with or without a junction of dissimilar materials; including thermomagnetic components (using the Peltier effect only for cooling of semiconductor or other solid state devices H01L 23/38)	<administrative transfer<br="">to H10N19/00></administrative>
D	H01L27/18	1	including components exhibiting superconductivity	<administrative 00="" h10n69="" to="" transfer=""></administrative>
D	H01L27/20	1	including piezo-electric components; including electrostrictive components; including magnetostrictive components	<administrative transfer<br="">to H10N39/00></administrative>
D	H01L27/26	1	including bulk negative resistance effect components	<administrative 00="" h10n89="" to="" transfer=""></administrative>
D	H01L27/265	2	{Gunn effect devices}	<administrative 02="" h10n89="" to="" transfer=""></administrative>
D	H01L35/00	0	Thermoelectric devices comprising a junction of dissimilar materials, i.e. exhibiting Seebeck or Peltier effect with or without other thermoelectric effects or thermomagnetic effects; Processes or apparatus peculiar to the manufacture or treatment thereof or of parts thereof; Details thereof (devices consisting of a plurality of solid state components formed in or on a common substrate H01L 27/00)	<administrative transfer<br="">to H10N10/00></administrative>
D	H01L35/02	1	Details	<administrative 80="" h10n10="" to="" transfer=""></administrative>
D	H01L35/04	2	Structural details of the junction; Connections of leads	<administrative transfer<br="">to H10N10/81></administrative>
D	H01L35/06	3	detachable, e.g. using a spring	<administrative 813="" h10n10="" to="" transfer=""></administrative>
D	H01L35/08	3	non-detachable, e.g. cemented, sintered, soldered {, e.g. thin films}	<administrative 817="" h10n10="" to="" transfer=""></administrative>
D	H01L35/10	3	Connections of leads	<administrative 82="" h10n10="" to="" transfer=""></administrative>

DATE: FEBRUARY 1, 2023

D	H01L35/12	1	Selection of the material for the legs of the	<administrative th="" transfer<=""></administrative>
		_	junction	to H10N10/85>
D	H01L35/14	2	using inorganic compositions	<administrative 851="" h10n10="" to="" transfer=""></administrative>
D	H01L35/16	3	comprising tellurium or selenium or sulfur	<administrative 852="" h10n10="" to="" transfer=""></administrative>
D	H01L35/18	3	comprising arsenic or antimony or bismuth (H01L35/16 takes precedence), {e.g. $A_{III}B_V$ compounds}	<administrative transfer<br="">to H10N10/853></administrative>
D	H01L35/20	3	comprising metals only (H01L35/16, H01L35/18 take precedence)	<administrative 854="" h10n10="" to="" transfer=""></administrative>
D	H01L35/22	3	comprising compounds containing boron, carbon, oxygen or nitrogen {or germanium or silicon, e.g. superconductors}	<administrative transfer<br="">to H10N10/855></administrative>
D	H01L35/225	4	{Superconducting materials}	<administrative 8552="" h10n10="" to="" transfer=""></administrative>
D	H01L35/24	2	using organic compositions	<administrative 856="" h10n10="" to="" transfer=""></administrative>
D	H01L35/26	2	using compositions changing continuously or discontinuously inside the material	<administrative 857="" h10n10="" to="" transfer=""></administrative>
D	H01L35/28	1	operating with Peltier or Seebeck effect only	<administrative 10="" h10n10="" to="" transfer=""></administrative>
D	H01L35/30	2	characterised by the heat-exchanging means at the junction	<administrative 13="" h10n10="" to="" transfer=""></administrative>
D	H01L35/32	2	characterised by the structure or configuration of the cell or thermocouple forming the device {including details about housing, insulation, geometry or module}	<administrative transfer<br="">to H10N10/17></administrative>
D	H01L35/325	3	{Cascades of thermocouples}	<administrative 101="" h10n19="" to="" transfer=""></administrative>
D	H01L35/34	1	Processes or apparatus specially adapted for peculiar to the manufacture or treatment of these devices or of parts thereof	<administrative transfer<br="">to H10N10/01></administrative>
D	H01L37/00	0	Thermoelectric devices without a junction of dissimilar materials; Thermomagnetic devices, e.g. using Nernst-Ettinghausen effect; Processes or apparatus peculiar to the manufacture or treatment thereof or of parts thereof (devices consisting of a plurality of solid state components formed in or on a common substrate H01L 27/00)	<administrative transfer<br="">to H10N15/00></administrative>
D	H01L37/02	1	using thermal change of dielectric constant, e.g. working above and below Curie point {, e.g. pyroelectric devices}	<administrative transfer<br="">to H10N15/10></administrative>
D	H01L37/025	2	{Selection of materials}	<administrative 15="" h10n15="" to="" transfer=""></administrative>
D	H01L37/04	1	using thermal change of magnetic permeability, e.g. working above and below the Curie point {, e.g. pyromagnetic devices}	<administrative transfer<br="">to H10N15/20></administrative>

DATE: FEBRUARY 1, 2023

D	H01L39/00	0	Devices using superconductivity; Processes or apparatus peculiar to the manufacture or treatment thereof or of parts thereof (devices consisting of a plurality of solid state components formed in or on a common substrate H01L 27/00; {light detection G01J, G02F 2/00; application to memories G11C 11/44, G11C 15/00, G11C 19/32}; superconducting conductors cables or transmission lines H01B 12/00; {microwaves H01P 7/00, H01P 11/00}; superconductive coils or windings H01F; amplifiers using superconductivity H03F 19/00; {impulse generators and logic circuits H03K 3/38, H03K 17/92, H03K 19/195; lasers H01S 3/00, H01S 5/00})	<administrative 00="" h10n60="" to="" transfer=""></administrative>
D	H01L39/005	1	{Alleged superconductivity}	<administrative 99="" h10n60="" to="" transfer=""></administrative>
D	H01L39/02	1	Details	<administrative 80="" h10n60="" to="" transfer=""></administrative>
D	H01L39/025	2	{for Josephson devices}	<administrative 805="" h10n60="" to="" transfer=""></administrative>
D	H01L39/04	2	Containers; Mountings	<administrative 81="" h10n60="" to="" transfer=""></administrative>
D	H01L39/045	3	{for Josephson devices}	<administrative 815="" h10n60="" to="" transfer=""></administrative>
D	H01L39/06	2	characterised by the current path	<administrative 82="" h10n60="" to="" transfer=""></administrative>
D	H01L39/08	2	characterised by the shape of the element	<administrative 83="" h10n60="" to="" transfer=""></administrative>
D	H01L39/10	2	characterised by the means for switching {between superconductive and normal states}	<administrative 84="" h10n60="" to="" transfer=""></administrative>
D	H01L39/12	2	characterised by the material	<administrative 85="" h10n60="" to="" transfer=""></administrative>
D	H01L39/121	3	{Organic materials}	<administrative 851="" h10n60="" to="" transfer=""></administrative>
D	H01L39/123	4	{Fullerene superconductors, e.g. soccerball-shaped allotrope of carbon, e.g. C ₆₀ , C ₉₄ (fullerenes in general C07C 13/00)}	<administrative 853="" h10n60="" to="" transfer=""></administrative>
D	H01L39/125	3	{Ceramic materials}	<administrative 855="" h10n60="" to="" transfer=""></administrative>
D	H01L39/126	4	{comprising copper oxide}	<administrative 857="" h10n60="" to="" transfer=""></administrative>
D	H01L39/128	5	{Multi-layered structures, e.g. super lattices}	<administrative 858="" h10n60="" to="" transfer=""></administrative>
D	H01L39/14	1	Permanent superconductor devices	<administrative 20="" h10n60="" to="" transfer=""></administrative>
D	H01L39/141	2	{comprising metal borides, e.g. MgB ₂ }	<administrative 202="" h10n60="" to="" transfer=""></administrative>

DATE: FEBRUARY 1, 2023

	_		
H01L39/143	2	{comprising high Tc ceramic materials}	<administrative 203="" h10n60="" to="" transfer=""></administrative>
H01L39/145	2	{Three or more electrode devices (H01L39/228 takes precedence)}	<administrative 205="" h10n60="" to="" transfer=""></administrative>
H01L39/146	3	{Field effect devices}	<administrative 207="" h10n60="" to="" transfer=""></administrative>
H01L39/148	2	{Abrikosov vortex devices}	<administrative 208="" h10n60="" to="" transfer=""></administrative>
H01L39/16	1	Devices switchable between superconductive and normal states {, e.g. switches, current limiters (circuits for current limitation using superconductor elements H02H9/023)}	<administrative transfer<br="">to H10N60/30></administrative>
H01L39/18	2	Cryotrons	<administrative 35="" h10n60="" to="" transfer=""></administrative>
H01L39/20	3	Power cryotrons	<administrative 355="" h10n60="" to="" transfer=""></administrative>
H01L39/22	1	Devices comprising a junction of dissimilar materials, e.g. Josephson-effect devices	<administrative 10="" h10n60="" to="" transfer=""></administrative>
H01L39/221	2	{Single electron tunnelling devices}	<administrative 11="" h10n60="" to="" transfer=""></administrative>
H01L39/223	2	{Josephson-effect devices}	<administrative 12="" h10n60="" to="" transfer=""></administrative>
H01L39/225	3	{comprising high Tc ceramic materials}	<administrative 124="" h10n60="" to="" transfer=""></administrative>
H01L39/226	3	{comprising metal borides, e.g. MgB ₂ }	<administrative 126="" h10n60="" to="" transfer=""></administrative>
H01L39/228	2	{three or more electrode devices, e.g. transistor-like structures}	<administrative 128="" h10n60="" to="" transfer=""></administrative>
H01L39/24	1	Processes or apparatus peculiar to the manufacture or treatment of devices provided for in H01L39/00 or of parts thereof	<administrative 01="" h10n60="" to="" transfer=""></administrative>
H01L39/2403	2	{Processes peculiar to the manufacture or treatment of composite superconductor filaments (comprising copper oxide H01L39/2419)}	<administrative transfer<br="">to H10N60/0128></administrative>
H01L39/2406	2	{of devices comprising Nb or an alloy of Nb with one or more of the elements of group 4, e.g. Ti, Zr, Hf}	<administrative 0156="" h10n60="" to="" transfer=""></administrative>
H01L39/2409	2	{of devices comprising an intermetallic compound of type A-15, e.g. Nb ₃ Sn}	<administrative transfer<br="">to H10N60/0184></administrative>
H01L39/2412	2	{of devices comprising molybdenum chalcogenides}	<administrative 0212="" h10n60="" to="" transfer=""></administrative>
H01L39/2416	2	{of devices comprising nitrides or carbonitrides}	<administrative 0241="" h10n60="" to="" transfer=""></administrative>
H01L39/2419	2	{the superconducting material comprising copper oxide}	<administrative 0268="" h10n60="" to="" transfer=""></administrative>
H01L39/2422	3	{Processes for depositing or forming superconductor layers}	<administrative 0296="" h10n60="" to="" transfer=""></administrative>
	H01L39/146 H01L39/148 H01L39/16 H01L39/18 H01L39/20 H01L39/22 H01L39/221 H01L39/223 H01L39/225 H01L39/226 H01L39/226 H01L39/240 H01L39/2403 H01L39/2403 H01L39/2409 H01L39/2416 H01L39/2416 H01L39/2416	H01L39/145 2 H01L39/146 3 H01L39/148 2 H01L39/16 1 H01L39/18 2 H01L39/20 3 H01L39/22 1 H01L39/221 2 H01L39/223 2 H01L39/225 3 H01L39/226 3 H01L39/228 2 H01L39/2403 2 H01L39/2406 2 H01L39/2409 2 H01L39/2412 2 H01L39/2416 2 H01L39/2419 2	H01L39/145 2 {Three or more electrode devices (H01L39/146 3 {Field effect devices}} H01L39/148 2 {Abrikosov vortex devices} H01L39/16 1 Devices switchable between superconductive and normal states {, e.g. switches, current limiters (circuits for current limitation using superconductor elements H02H9/023)} H01L39/18 2 Cryotrons H01L39/20 3 Power cryotrons H01L39/22 1 Devices comprising a junction of dissimilar materials, e.g. Josephson-effect devices {Single electron tunnelling devices}} H01L39/221 2 {Josephson-effect devices} H01L39/223 2 {Josephson-effect devices} H01L39/225 3 {comprising metal borides, e.g. MgB2} H01L39/226 3 {comprising metal borides, e.g. MgB2} H01L39/228 2 {three or more electrode devices, e.g. transistor-like structures} H01L39/240 1 Processes or apparatus peculiar to the manufacture or treatment of devices provided for in H01L39/00 or of parts thereof H01L39/2403 2 {Processes peculiar to the manufacture or treatment of composite superconductor filaments (comprising copper oxide H01L39/2419)} H01L39/2409 2 {of devices comprising Nb or an alloy of Nb with one or more of the elements of group 4, e.g. Ti, Zr, Hf} H01L39/2412 2 {of devices comprising an intermetallic compound of type A-15, e.g. NbsSn} H01L39/2410 2 {of devices comprising nolybdenum chalcogenides} H01L39/2419 2 {the superconducting material comprising copper oxide} H01L39/2419 2 {the superconducting material comprising copper oxide} H01L39/2420 3 {Processes for depositing or forming}

DATE: FEBRUARY 1, 2023

D	H01L39/2425	4	{from a solution}	<administrative 0324="" h10n60="" to="" transfer=""></administrative>
D	H01L39/2429	4	{from a suspension or slurry, e.g. screen printing; doctor blade casting}	<administrative 0352="" h10n60="" to="" transfer=""></administrative>
D	H01L39/2432	4	{by evaporation independent of heat source, e.g. MBE}	<administrative 0381="" h10n60="" to="" transfer=""></administrative>
D	H01L39/2435	4	{by sputtering}	<administrative 0408="" h10n60="" to="" transfer=""></administrative>
D	H01L39/2438	4	{by chemical vapour deposition [CVD]}	<administrative 0436="" h10n60="" to="" transfer=""></administrative>
D	H01L39/2441	5	{by metalloorganic chemical vapour deposition [MOCVD]}	<administrative transfer<br="">to H10N60/0464></administrative>
D	H01L39/2445	4	{by thermal spraying, e.g. plasma deposition}	<administrative 0492="" h10n60="" to="" transfer=""></administrative>
D	H01L39/2448	4	{Pulsed laser deposition, e.g. laser sputtering; laser ablation}	<administrative transfer<br="">to H10N60/0521></administrative>
D	H01L39/2451	4	{Precursor deposition followed by after- treatment, e.g. oxidation}	<administrative transfer<br="">to H10N60/0548></administrative>
D	H01L39/2454	4	{characterised by the substrate}	<administrative 0576="" h10n60="" to="" transfer=""></administrative>
D	H01L39/2458	5	{Monocrystalline substrates, e.g. epitaxial growth}	<administrative 0604="" h10n60="" to="" transfer=""></administrative>
D	H01L39/2461	5	{Intermediate layers, e.g. for growth control}	<administrative 0632="" h10n60="" to="" transfer=""></administrative>
D	H01L39/2464	3	{After-treatment, e.g. patterning}	<administrative transfer<br="">to H10N60/0661></administrative>
D	H01L39/2467	4	{Etching}	<administrative 0688="" h10n60="" to="" transfer=""></administrative>
D	H01L39/247	4	{Passivation}	<administrative transfer<br="">to H10N60/0716></administrative>
D	H01L39/2474	3	{Manufacture or deposition of contacts or electrodes}	<administrative transfer<br="">to H10N60/0744></administrative>
D	H01L39/2477	3	{Processes including the use of precursors}	<administrative transfer<br="">to H10N60/0772></administrative>
D	H01L39/248	3	{Processes peculiar to the manufacture or treatment of filaments or composite wires}	<administrative 0801="" h10n60="" to="" transfer=""></administrative>
D	H01L39/2483	3	{Introducing flux pinning centres}	<administrative 0828="" h10n60="" to="" transfer=""></administrative>
D	H01L39/2487	2	$\label{eq:comprising} \begin{tabular}{ll} \{of\ devices\ comprising\ metal\ borides,\ e.g. \\ MgB_2\} \end{tabular}$	<administrative 0856="" h10n60="" to="" transfer=""></administrative>
D	H01L39/249	2	{Treatment of superconductive layers by irradiation, e.g. ion-beam, electron-beam, laser beam, X-rays (irradiation devices G21K, H01J)}	<administrative transfer<br="">to H10N60/0884></administrative>
D	H01L39/2493	2	{for Josephson devices}	<administrative 0912="" h10n60="" to="" transfer=""></administrative>
D	H01L39/2496	3	{comprising high Tc ceramic materials}	<administrative 0941="" h10n60="" to="" transfer=""></administrative>

DATE: FEBRUARY 1, 2023

D	H01L41/00	0	Piezo-electric devices in general;	<administrative th="" transfer<=""></administrative>
			Electrostrictive devices in general;	to H10N30/00>
			Magnetostrictive devices in general; Processes or apparatus specially adapted for the	
			manufacture or treatment thereof or of parts	
			thereof; Details thereof (devices consisting of	
			a plurality of solid-state components formed in	
			or on a common substrate H01L 27/00)	
D	H01L41/02	1	Details	<administrative transfer<br="">to H10N30/80></administrative>
D	H01L41/04	2	of piezo-electric or electrostrictive devices	<administrative transfer<br="">to H10N30/80></administrative>
D	H01L41/042	3	{Drive or control circuitry or methods for piezo-electric or electrostrictive devices not	<administrative 802="" h10n30="" to="" transfer=""></administrative>
			otherwise provided for}	
D	H01L41/044	4	{for piezoelectric transformers (conversion of	<administrative td="" transfer<=""></administrative>
			DC or AC power H02M; for operating	to H10N30/804>
	11011 41/047	3	discharge lamps H05B41/282)}	
D	H01L41/047	3	Electrodes {or electrical connection arrangements}	<administrative 87="" h10n30="" to="" transfer=""></administrative>
D	H01L41/0471	4	{Individual layer electrodes of multilayer	<administrative td="" transfer<=""></administrative>
			piezo-electric or electrostrictive devices, e.g.	to H10N30/871>
	11011 41/0470	4	internal electrodes}	. 1
D	H01L41/0472	4	{Connection electrodes of multilayer piezo- electric or electrostrictive devices, e.g. external	<administrative 872="" h10n30="" to="" transfer=""></administrative>
			electrodes}	10 11101130/0722
D	H01L41/0474	5	{embedded within piezo-electric or	<administrative td="" transfer<=""></administrative>
			electrostrictive material, e.g. via connections}	to H10N30/874>
D	H01L41/0475	4	{Further connection or lead arrangements, e.g.	<administrative td="" transfer<=""></administrative>
	11011 41/0455	4	flexible wiring boards, terminal pins}	to H10N30/875>
D	H01L41/0477	4	{Conductive materials (in general H01B1/00)}	<administrative transfer<br="">to H10N30/877></administrative>
D	H01L41/0478	5	{the principal material being non-metallic, e.g.	<administrative td="" transfer<=""></administrative>
D	H01L41/053	3	oxide or carbon based}	to H10N30/878>
D			Mounts, supports, enclosures or casings	<administrative transfer<br="">to H10N30/88></administrative>
D	H01L41/0533	4	{Further insulation means against electrical,	<administrative td="" transfer<=""></administrative>
			physical or chemical damage, e.g. protective	to H10N30/883>
D	H01L41/0536	4	coatings} {Mechanical prestressing means, e.g. springs	<administrative td="" transfer<=""></administrative>
D	11011241/0550	+	(in general F16F1/00)}	to H10N30/886>
D	H01L41/06	2	of magnetostrictive devices	<administrative 80="" h10n35="" to="" transfer=""></administrative>
D	H01L41/08	1	Piezo-electric or electrostrictive devices	<administrative 00="" h10n30="" to="" transfer=""></administrative>
D	H01L41/0805	2	{based on piezo-electric or electrostrictive	<administrative td="" transfer<=""></administrative>
			films or coatings}	to H10N 30/1051>
D	H01L41/081	3	{characterised by the underlying base, e.g.	<administrative td="" transfer<=""></administrative>
			substrates}	to H10N 30/10513>

DATE: FEBRUARY 1, 2023

01L41/0815	4	(T , 1' , 1	
J1L41/0613		{Intermediate layers, e.g. barrier, adhesion or growth control buffer layers}	<administrative transfer<br="">to H10N 30/10516></administrative>
01L41/082	2	{based on piezo-electric or electrostrictive fibres}	<administrative 1061="" 30="" h10n="" to="" transfer=""></administrative>
01L41/0825			<administrative transfer<br="">to H10N 30/1071></administrative>
01L41/083	2	having a stacked or multilayer structure	<administrative 50="" h10n30="" to="" transfer=""></administrative>
01L41/0831	3	{with non-rectangular cross-section in stacking direction, e.g. polygonal, trapezoidal}	<administrative 501="" h10n30="" to="" transfer=""></administrative>
01L41/0833			<administrative transfer<br="">to H10N30/503></administrative>
01L41/0835	4	{Annular cross-section}	<administrative 505="" h10n30="" to="" transfer=""></administrative>
01L41/0836	3	{of cylindrical shape with stacking in radial direction, e.g. coaxial or spiral type rolls}	<administrative 506="" h10n30="" to="" transfer=""></administrative>
01L41/0838	3	{adapted for alleviating internal stress, e.g. cracking control layers ("Sollbruchstellen")}	<administrative 508="" h10n30="" to="" transfer=""></administrative>
01L41/087	2	formed as coaxial cables	<administrative 60="" h10n30="" to="" transfer=""></administrative>
I01L41/09		e.g. actuators, vibrators (in frequency selective	<administrative 20="" h10n30="" to="" transfer=""></administrative>
01L41/0906			<administrative transfer<br="">to H10N30/202></administrative>
01L41/0913	4	{with polygonal or rectangular shape}	<administrative transfer<br="">to H10N30/2023></administrative>
01L41/092	4	{with cylindrical or annular shape}	<administrative transfer<br="">to H10N30/2027></administrative>
01L41/0926			<administrative transfer<br="">to H10N30/204></administrative>
01L41/0933	4	{Beam type}	<administrative 2041="" h10n30="" to="" transfer=""></administrative>
01L41/094	5	{Cantilevers, i.e. having one fixed end}	<administrative 2042="" h10n30="" to="" transfer=""></administrative>
01L41/0946			<administrative 2043="" h10n30="" to="" transfer=""></administrative>
01L41/0953			<administrative 2044="" h10n30="" to="" transfer=""></administrative>
01L41/096	6	{adapted for in-plane bending displacement}	<administrative 2045="" h10n30="" to="" transfer=""></administrative>
01L41/0966	6	{adapted for multi-directional bending displacement}	<administrative 2046="" h10n30="" to="" transfer=""></administrative>
	01L41/0825 01L41/0825 01L41/0831 01L41/0833 01L41/0835 01L41/0836 01L41/0838 01L41/087 101L41/0906 01L41/0906 01L41/0906 01L41/0913 01L41/0926 01L41/0926 01L41/0933 01L41/0946 01L41/0946 01L41/0946 01L41/096	01L41/0825 2 01L41/0835 2 01L41/0831 3 01L41/0835 4 01L41/0836 3 01L41/0838 3 01L41/087 2 101L41/0906 3 01L41/0906 3 01L41/0913 4 01L41/0926 3 01L41/0926 3 01L41/0926 6 01L41/0946 6 01L41/0946 6	growth control buffer layers}

DATE: FEBRUARY 1, 2023

D	H01L41/0973	4	{Membrane type}	<administrative th="" transfer<=""></administrative>
D	H01L41/098	5	{with non-planar shape}	to H10N30/2047> <administrative td="" transfer<=""></administrative>
D	H01L41/0986	3	{using longitudinal or thickness displacement	to H10N30/2048> <administrative td="" transfer<=""></administrative>
D	1101L41/0300	3	only, e.g. d33 or d31 type devices}	to H10N30/206>
D	H01L41/0993	3	{using shear or torsion displacement, e.g. d15 type devices}	<administrative 208="" h10n30="" to="" transfer=""></administrative>
D	H01L41/107	2	with electrical input and electrical output {, e.g. transformers}	<administrative 40="" h10n30="" to="" transfer=""></administrative>
D	H01L41/113	2	with mechanical input and electrical output {, e.g. generators, sensors}	<administrative 30="" h10n30="" to="" transfer=""></administrative>
D	H01L41/1132	3	{Sensors}	<administrative 302="" h10n30="" to="" transfer=""></administrative>
D	H01L41/1134	3	{Beam type}	<administrative 304="" h10n30="" to="" transfer=""></administrative>
D	H01L41/1136	4	{Cantilevers}	<administrative 306="" h10n30="" to="" transfer=""></administrative>
D	H01L41/1138	3	{Membrane type}	<administrative 308="" h10n30="" to="" transfer=""></administrative>
D	H01L41/12	1	Magnetostrictive devices	<administrative 00="" h10n35="" to="" transfer=""></administrative>
D	H01L41/125	2	{with mechanical input and electrical output, e.g. generators, sensors}	<administrative 101="" h10n35="" to="" transfer=""></administrative>
D	H01L41/16	1	Selection of materials	<administrative 85="" h10n30="" to="" transfer=""></administrative>
D	H01L41/18	2	for piezo-electric or electrostrictive devices {, e.g. bulk piezo-electric crystals}	<administrative 85="" h10n30="" to="" transfer=""></administrative>
D	H01L41/183	3	{Composite materials, e.g. having 1-3 or 2-2 type connectivity}	<administrative 852="" h10n30="" to="" transfer=""></administrative>
D	H01L41/187	3	Ceramic compositions {, i.e. synthetic inorganic polycrystalline compounds incl. epitaxial, quasi-crystalline materials}	<administrative transfer<br="">to H10N30/853></administrative>
D	H01L41/1871	4	{Alkaline earth metal based oxides, e.g. barium titanates}	<administrative 8536="" h10n30="" to="" transfer=""></administrative>
D	H01L41/1873	4	{Alkali metal based oxides, e.g. lithium, sodium or potassium niobates}	<administrative 8542="" h10n30="" to="" transfer=""></administrative>
D	H01L41/1875	4	{Lead based oxides}	<administrative 8548="" h10n30="" to="" transfer=""></administrative>
D	H01L41/1876	5	{Lead zirconate titanate based}	<administrative 8554="" h10n30="" to="" transfer=""></administrative>
D	H01L41/1878	4	{Bismuth based oxides}	<administrative 8561="" h10n30="" to="" transfer=""></administrative>
D	H01L41/193	3	Macromolecular compositions {, e.g. piezo-electric polymers}	<administrative 857="" h10n30="" to="" transfer=""></administrative>
D	H01L41/20	2	for magnetostrictive devices	<administrative 85="" h10n35="" to="" transfer=""></administrative>

DATE: FEBRUARY 1, 2023

D	H01L41/22	1	Processes or apparatus specially adapted for the assembly, manufacture or treatment of piezo-electric or electrostrictive devices or of parts thereof	<administrative transfer<br="">to H10N30/01></administrative>
D	H01L41/23	2	Forming enclosures or casings	<administrative 02="" h10n30="" to="" transfer=""></administrative>
D	H01L41/25	2	Assembling devices that include piezo-electric or electrostrictive parts	<administrative 03="" h10n30="" to="" transfer=""></administrative>
D	H01L41/253	2	Treating devices or parts thereof to modify a piezo-electric or electrostrictive property, e.g. polarisation characteristics, vibration characteristics or mode tuning	<administrative transfer<br="">to H10N30/04></administrative>
D	H01L41/257	3	by polarising	<administrative 045="" h10n30="" to="" transfer=""></administrative>
D	H01L41/27	2	Manufacturing multilayered piezo-electric or electrostrictive devices or parts thereof, e.g. by stacking piezo-electric bodies and electrodes	<administrative transfer<br="">to H10N30/05></administrative>
D	H01L41/273	3	by integrally sintering piezo-electric or electrostrictive bodies and electrodes	<administrative 053="" h10n30="" to="" transfer=""></administrative>
D	H01L41/277	3	by stacking bulk piezo-electric or electrostrictive bodies and electrodes	<administrative 057="" h10n30="" to="" transfer=""></administrative>
D	H01L41/29	2	Forming electrodes, leads or terminal arrangements	<administrative 06="" h10n30="" to="" transfer=""></administrative>
D	H01L41/293	3	Connection electrodes of multilayered piezo- electric or electrostrictive parts	<administrative 063="" h10n30="" to="" transfer=""></administrative>
D	H01L41/297	3	Individual layer electrodes of multilayered piezo-electric or electrostrictive parts	<administrative 067="" h10n30="" to="" transfer=""></administrative>
D	H01L41/31	2	Applying piezo-electric or electrostrictive parts or bodies onto an electrical element or another base	<administrative transfer<br="">to H10N30/07></administrative>
D	H01L41/311	3	Mounting of piezo-electric or electrostrictive parts together with semiconductor elements, or other circuit elements, on a common substrate	<administrative transfer<br="">to H10N30/071></administrative>
D	H01L41/312	3	by laminating or bonding of piezo-electric or electrostrictive bodies	<administrative 072="" h10n30="" to="" transfer=""></administrative>
D	H01L41/313	4	by metal fusing or with adhesives	<administrative 073="" h10n30="" to="" transfer=""></administrative>
D	H01L41/314	3	by depositing piezo-electric or electrostrictive layers, e.g. aerosol or screen printing	<administrative 074="" h10n30="" to="" transfer=""></administrative>
D	H01L41/316	4	by vapour phase deposition	<administrative 076="" h10n30="" to="" transfer=""></administrative>
D	H01L41/317	4	by liquid phase deposition	<administrative 077="" h10n30="" to="" transfer=""></administrative>
D	H01L41/318	5	by sol-gel deposition	<administrative 078="" h10n30="" to="" transfer=""></administrative>
D	H01L41/319	4	using intermediate layers, e.g. for growth control	<administrative 079="" h10n30="" to="" transfer=""></administrative>

DATE: FEBRUARY 1, 2023

D	H01L41/33	2	Shaping or machining of piezo-electric or electrostrictive bodies	<administrative 08="" h10n30="" to="" transfer=""></administrative>
D	H01L41/331	3	by coating or depositing using masks, e.g. lift-off	<administrative 081="" h10n30="" to="" transfer=""></administrative>
D	H01L41/332	3	by etching, e.g. lithography	<administrative 082="" h10n30="" to="" transfer=""></administrative>
D	H01L41/333	3	by moulding or extrusion	<administrative 084="" h10n30="" to="" transfer=""></administrative>
D	H01L41/335	3	by machining	<administrative 085="" h10n30="" to="" transfer=""></administrative>
D	H01L41/337	4	by polishing or grinding	<administrative 086="" h10n30="" to="" transfer=""></administrative>
D	H01L41/338	4	by cutting or dicing	<administrative 088="" h10n30="" to="" transfer=""></administrative>
D	H01L41/339	4	by punching	<administrative 089="" h10n30="" to="" transfer=""></administrative>
D	H01L41/35	2	Forming piezo-electric or electrostrictive materials	<administrative 09="" h10n30="" to="" transfer=""></administrative>
D	H01L41/37	3	Composite materials	<administrative 092="" h10n30="" to="" transfer=""></administrative>
D	H01L41/39	3	Inorganic materials	<administrative 093="" h10n30="" to="" transfer=""></administrative>
D	H01L41/41	4	by melting	<administrative 095="" h10n30="" to="" transfer=""></administrative>
D	H01L41/43	4	by sintering	<administrative 097="" h10n30="" to="" transfer=""></administrative>
D	H01L41/45	3	Organic materials	<administrative 098="" h10n30="" to="" transfer=""></administrative>
D	H01L41/47	1	Processes or apparatus specially adapted for the assembly, manufacture or treatment of magnetostrictive devices or of parts thereof	<administrative transfer<br="">to H10N35/01></administrative>
D	H01L43/00	0	Devices using galvano-magnetic or similar magnetic effects; Processes or apparatus specially adapted for the manufacture or treatment thereof or of parts thereof (devices consisting of a plurality of solid state components formed in or on a common substrate H01L 27/00)	<administrative transfer<br="">to H10N50/00></administrative>
D	H01L43/02	1	Details	<administrative 80="" h10n50="" to="" transfer=""></administrative>
D	H01L43/04	2	of Hall-effect devices	<administrative 80="" h10n52="" to="" transfer=""></administrative>
D	H01L43/06	1	Hall-effect devices	<administrative 00="" h10n52="" to="" transfer=""></administrative>
D	H01L43/065	2	{Semiconductor Hall-effect devices}	<administrative 101="" h10n52="" to="" transfer=""></administrative>
D	H01L43/08	1	Magnetic-field-controlled resistors	<administrative 10="" h10n50="" to="" transfer=""></administrative>

DATE: FEBRUARY 1, 2023

D	H01L43/10	1	Selection of materials	<administrative 85="" h10n50="" to="" transfer=""></administrative>
D	H01L43/12	1	Processes or apparatus specially adapted for the manufacture or treatment of these devices or of parts thereof	<administrative 01="" h10n50="" to="" transfer=""></administrative>
D	H01L43/14	2	for Hall-effect devices	<administrative 01="" h10n52="" to="" transfer=""></administrative>
D	H01L45/00	0	Solid state devices adapted for rectifying, amplifying, oscillating or switching without a potential-jump barrier or surface barrier, e.g. dielectric triodes; Ovshinsky-effect devices; Processes or apparatus peculiar to the manufacture or treatment thereof or of parts thereof (devices consisting of a plurality of solid state components formed in or on a common substrate H01L 27/00; devices using superconductivity H01L 39/00; piezo-electric devices H01L 41/00; bulk negative resistance effect devices H01L 47/00; {memories G11C 11/34; G11C 13/0002; amplifying circuits H03F 11/00; pulse generation H03K 3/02; electronic switching circuits H03K 17/00; logic circuits H03K 19/00})	<administrative 00="" h10n70="" to="" transfer=""></administrative>
D	H01L45/005	1	{Charge density wave transport devices}	<administrative 151="" h10n70="" to="" transfer=""></administrative>
D	H01L45/02	1	Solid state travelling-wave devices	<administrative 10="" h10n70="" to="" transfer=""></administrative>
D	H01L45/04	1	{Bistable or multistable switching devices, e.g. for resistance switching non-volatile memory}	<administrative 20="" h10n70="" to="" transfer=""></administrative>
D	H01L45/06	2	{based on solid-state phase change, e.g. between amorphous and crystalline phases, Ovshinsky effect}	<administrative transfer<br="">to H10N70/231></administrative>
D	H01L45/065	3	{between different crystalline phases, e.g. cubic and hexagonal}	<administrative 235="" h10n70="" to="" transfer=""></administrative>
D	H01L45/08	2	{based on migration or redistribution of ionic species, e.g. anions, vacancies}	<administrative 24="" h10n70="" to="" transfer=""></administrative>
D	H01L45/085	3	{the species being metal cations, e.g. programmable metallization cells}	<administrative 245="" h10n70="" to="" transfer=""></administrative>
D	H01L45/10	2	{based on bulk electronic defects, e.g. trapping of electrons}	<administrative 25="" h10n70="" to="" transfer=""></administrative>
D	H01L45/12	2	{Details}	<administrative 801="" h10n70="" to="" transfer=""></administrative>
D	H01L45/1206	3	{Three or more terminal devices, e.g. transistor like devices}	<administrative 253="" h10n70="" to="" transfer=""></administrative>
D	H01L45/1213	3	{Radiation or particle beam assisted switching devices, e.g. optically controlled devices}	<administrative 257="" h10n70="" to="" transfer=""></administrative>
D	H01L45/122	3	{Device geometry}	<administrative transfer<br="">to H10N 70/821></administrative>

DATE: FEBRUARY 1, 2023

D	H01L45/1226	4	{adapted for essentially horizontal current flow, e.g. bridge type devices}	<administrative 70="" 823="" h10n="" to="" transfer=""></administrative>
D	H01L45/1233	4	{adapted for essentially vertical current flow, e.g. sandwich or pillar type devices}	<administrative transfer<br="">to H10N 70/826></administrative>
D	H01L45/124	5	{on sidewalls of dielectric structures, e.g. mesa or cup type devices}	<administrative 70="" 8265="" h10n="" to="" transfer=""></administrative>
D	H01L45/1246	4	{Further means within the switching material region to limit current flow, e.g. constrictions}	<administrative transfer<br="">to H10N 70/828></administrative>
D	H01L45/1253	3	{Electrodes}	<administrative transfer<br="">to H10N 70/841></administrative>
D	H01L45/126	4	{adapted for resistive heating}	<administrative transfer<br="">to H10N 70/8413></administrative>
D	H01L45/1266	4	{adapted for supplying ionic species}	<administrative 70="" 8416="" h10n="" to="" transfer=""></administrative>
D	H01L45/1273	4	{adapted for electric field or current focusing, e.g. tip shaped}	<administrative transfer<br="">to H10N 70/8418></administrative>
D	H01L45/128	3	{Thermal details}	<administrative 70="" 861="" h10n="" to="" transfer=""></administrative>
D	H01L45/1286	4	{Heating or cooling means other than resistive heating electrodes, e.g. heater in parallel}	<administrative 70="" 8613="" h10n="" to="" transfer=""></administrative>
D	H01L45/1293	4	{Thermal insulation means}	<administrative 70="" 8616="" h10n="" to="" transfer=""></administrative>
D	H01L45/14	2	{Selection of switching materials}	<administrative 70="" 881="" h10n="" to="" transfer=""></administrative>
D	H01L45/141	3	{Compounds of sulfur, selenium or tellurium, e.g. chalcogenides}	<administrative transfer<br="">to H10N 70/882></administrative>
D	H01L45/142	4	{Sulfides, e.g. CuS}	<administrative 70="" 8822="" h10n="" to="" transfer=""></administrative>
D	H01L45/143	4	{Selenides, e.g. GeSe}	<administrative transfer<br="">to H10N 70/8825></administrative>
D	H01L45/144	4	{Tellurides, e.g. GeSbTe}	<administrative 70="" 8828="" h10n="" to="" transfer=""></administrative>
D	H01L45/145	3	{Oxides or nitrides}	<administrative transfer<br="">to H10N 70/883></administrative>
D	H01L45/146	4	{Binary metal oxides, e.g. TaOx}	<administrative transfer<br="">to H10N 70/8833></administrative>
D	H01L45/147	4	{Complex metal oxides, e.g. perovskites, spinels}	<administrative transfer<br="">to H10N 70/8836></administrative>
D	H01L45/148	3	{Other compounds of groups 13-15, e.g. elemental or compound semiconductors}	<administrative transfer<br="">to H10N 70/884></administrative>
D	H01L45/149	4	{Carbon or carbides}	<administrative transfer<br="">to H10N 70/8845></administrative>
D	H01L45/16	2	{Manufacturing}	<administrative 011="" h10n70="" to="" transfer=""></administrative>
D	H01L45/1608	3	{Formation of the switching material, e.g. layer deposition}	<administrative 021="" h10n70="" to="" transfer=""></administrative>
D	H01L45/1616	4	{by chemical vapor deposition, e.g. MOCVD, ALD}	<administrative 023="" h10n70="" to="" transfer=""></administrative>

DATE: FEBRUARY 1, 2023

D	H01L45/1625	4	{by physical vapor deposition, e.g. sputtering}	<administrative 026="" h10n70="" to="" transfer=""></administrative>
D	H01L45/1633	4	{by conversion of electrode material, e.g. oxidation}	<administrative 028="" h10n70="" to="" transfer=""></administrative>
D	H01L45/1641	3	{Modification of the switching material, e.g. post-treatment, doping}	<administrative 041="" h10n70="" to="" transfer=""></administrative>
D	H01L45/165	4	{by implantation}	<administrative 043="" h10n70="" to="" transfer=""></administrative>
D	H01L45/1658	4	{by diffusion, e.g. photo-dissolution}	<administrative 046="" h10n70="" to="" transfer=""></administrative>
D	H01L45/1666	3	{Patterning of the switching material}	<administrative 061="" h10n70="" to="" transfer=""></administrative>
D	H01L45/1675	4	{by etching of pre-deposited switching material layers, e.g. lithography}	<administrative 063="" h10n70="" to="" transfer=""></administrative>
D	H01L45/1683	4	{by filling of openings, e.g. damascene method}	<administrative 066="" h10n70="" to="" transfer=""></administrative>
D	H01L45/1691	4	{Patterning process specially adapted for achieving sub-lithographic dimensions, e.g. using spacers}	<administrative transfer<br="">to H10N70/068></administrative>
D	H01L47/00	0	Bulk negative resistance effect devices, e.g. Gunn-effect devices; Processes or apparatus peculiar to the manufacture or treatment thereof or of parts thereof (devices consisting of a plurality of solid state components formed in or on a common substrate H01L 27/00)	<administrative transfer<br="">to H10N80/00></administrative>
D	H01L47/005	1	{Processes or apparatus peculiar to the manufacture or treatment of these devices or of parts thereof (not peculiar thereto H01L21/00)}	<administrative transfer<br="">to H10N80/01></administrative>
D	H01L47/02	1	Gunn-effect devices {or transferred electron devices}	<administrative transfer<br="">to H10N80/10></administrative>
D	H01L47/023	2	{controlled by electromagnetic radiation}	<administrative 103="" h10n80="" to="" transfer=""></administrative>
D	H01L47/026	2	{Gunn diodes (H01L47/02 takes precedence)}	<administrative 107="" h10n80="" to="" transfer=""></administrative>
D	H01L49/00	0	Solid state devices not provided for in groups H01L 27/00 - H01L 47/00 and H01L 51/00 and not provided for in any other subclass; Processes or apparatus peculiar to the manufacture or treatment thereof or of parts thereof	<administrative transfer<br="">to H10N99/00></administrative>
D	H01L49/003	1	{Devices using Mott metal-insulator transition, e.g. field effect transistors}	<administrative 03="" h10n99="" to="" transfer=""></administrative>
D	H01L49/006	1	{Quantum devices, e.g. Quantum Interference Devices, Metal Single Electron Transistor (using semiconductors in the active part H01L29/00)}	<administrative transfer<br="">to H10N99/05></administrative>
D	H01L49/02	1	Thin-film or thick-film devices	<administrative 00="" h10n97="" to="" transfer=""></administrative>

DATE: FEBRUARY 1, 2023

PROJECT RP11761

SUBCLASS H10N - ELECTRIC SOLID-STATE DEVICES NOT OTHERWISE PROVIDED FOR

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 [#]
N	H10N	Subclass	ELECTRIC SOLID-STATE DEVICES NOT OTHERWISE PROVIDED FOR	
N	H10N10/00	0	Thermoelectric devices comprising a junction of dissimilar materials, i.e. devices exhibiting Seebeck or Peltier effects (integrated devices or assemblies of multiple devices H10N19/00)	
N	H10N10/01	1	Manufacture or treatment	
N	H10N10/10	1	operating with only the Peltier or Seebeck effects	
N	H10N10/13	2	characterised by the heat-exchanging means at the junction	
N	H10N10/17	2	characterised by the structure or configuration of the cell or thermocouple forming the device	
N	H10N10/80	1	Constructional details	
N	H10N10/81	2	Structural details of the junction	
N	H10N10/813	3	the junction being separable, e.g. using a spring	
N	H10N10/817	3	the junction being non-separable, e.g. being cemented, sintered or soldered	
N	H10N10/82	2	Connection of interconnections	
N	H10N10/85	2	Thermoelectric active materials	
N	H10N10/851	3	comprising inorganic compositions	
N	H10N10/852	4	comprising tellurium, selenium or sulfur	
N	H10N10/853	4	comprising arsenic, antimony or bismuth (H10N10/852 takes precedence)	
N	H10N10/854	4	comprising only metals (H10N10/852, H10N10/853 take precedence)	
Q	H10N10/855	4	comprising compounds containing boron, carbon, oxygen or nitrogen	H10N10/855, H10N10/8556
N	H10N10/8552	5	{the compounds being superconducting}	
N	H10N10/8556	4	{comprising compounds containing germanium or silicon}	
N	H10N10/856	3	comprising organic compositions	
N	H10N10/857	3	comprising compositions changing continuously or discontinuously inside the material	
N	H10N15/00	0	Thermoelectric devices without a junction of dissimilar materials; Thermomagnetic devices, e.g. using the Nernst-Ettingshausen effect	

DATE: FEBRUARY 1, 2023

			(integrated devices or assemblies of multiple devices H10N19/00)	
N	H10N15/10	1	Thermoelectric devices using thermal change of the dielectric constant, e.g. working above and below the Curie point	
N	H10N15/15	2	{Selection of materials}	
N	H10N15/20	1	Thermomagnetic devices using thermal change of the magnetic permeability, e.g. working above and below the Curie point	
N	H10N19/00	0	Integrated devices, or assemblies of multiple devices, comprising at least one thermoelectric or thermomagnetic element covered by groups H10N10/00 - H10N15/00	
N	H10N19/101	1	{Multiple thermocouples connected in a cascade arrangement}	
Q	H10N30/00	0	Piezoelectric or electrostrictive devices (integrated devices or assemblies of multiple devices H10N39/00)	H10N30/00, H10N35/00
N	H10N30/01	1	Manufacture or treatment	
N	H10N30/02	2	Forming enclosures or casings	
N	H10N30/03	2	Assembling devices that include piezoelectric or electrostrictive parts	
N	H10N30/04	2	Treatments to modify a piezoelectric or electrostrictive property, e.g. polarisation characteristics, vibration characteristics or mode tuning	
N	H10N30/045	3	by polarising	
N	H10N30/05	2	Manufacture of multilayered piezoelectric or electrostrictive devices, or parts thereof, e.g. by stacking piezoelectric bodies and electrodes	
N	H10N30/053	3	by integrally sintering piezoelectric or electrostrictive bodies and electrodes	
N	H10N30/057	3	by stacking bulk piezoelectric or electrostrictive bodies and electrodes	
N	H10N30/06	2	Forming electrodes or interconnections, e.g. leads or terminals	
N	H10N30/063	3	Forming interconnections, e.g. connection electrodes of multilayered piezoelectric or electrostrictive parts	
N	H10N30/067	3	Forming single-layered electrodes of multilayered piezoelectric or electrostrictive parts	
N	H10N30/07	2	Forming of piezoelectric or electrostrictive parts or bodies on an electrical element or another base	
N	H10N30/071	3	Mounting of piezoelectric or electrostrictive parts together with semiconductor elements, or other circuit elements, on a common substrate	

DATE: FEBRUARY 1, 2023

N	H10N30/072	3	by laminating or bonding of piezoelectric or electrostrictive bodies	
N	H10N30/073	4	by fusion of metals or by adhesives	
N	H10N30/074	3	by depositing piezoelectric or electrostrictive layers, e.g. aerosol or screen printing	
N	H10N30/076	4	by vapour phase deposition	
N	H10N30/077	4	by liquid phase deposition	
N	H10N30/078	5	by sol-gel deposition	
N	H10N30/079	4	using intermediate layers, e.g. for growth control	
N	H10N30/08	2	Shaping or machining of piezoelectric or electrostrictive bodies	
N	H10N30/081	3	by coating or depositing using masks, e.g. lift-off	
N	H10N30/082	3	by etching, e.g. lithography	
N	H10N30/084	3	by moulding or extrusion	
N	H10N30/085	3	by machining	
N	H10N30/086	4	by polishing or grinding	
N	H10N30/088	4	by cutting or dicing	
N	H10N30/089	4	by punching	
N	H10N30/09	2	Forming piezoelectric or electrostrictive materials	
N	H10N30/092	3	Forming composite materials	
N	H10N30/093	3	Forming inorganic materials	
N	H10N30/095	4	by melting	
N	H10N30/097	4	by sintering	
N	H10N30/098	3	Forming organic materials	
N	H10N30/1051	1	{based on piezoelectric or electrostrictive films or coatings}	
N	H10N30/10513	2	{characterised by the underlying bases, e.g. substrates}	
N	H10N30/10516	3	{Intermediate layers, e.g. barrier, adhesion or growth control buffer layers}	
N	H10N30/1061	1	{based on piezoelectric or electrostrictive fibres}	
N	H10N30/1071	1	{with electrical and mechanical input and output, e.g. having combined actuator and sensor parts}	
N	H10N30/20	1	with electrical input and mechanical output, e.g. functioning as actuators or vibrators	
N	H10N30/202	2	{using longitudinal or thickness displacement combined with bending, shear or torsion displacement}	

DATE: FEBRUARY 1, 2023

N	H10N30/2023	3	{having polygonal or rectangular shape}	
N	H10N30/2027	3	{having cylindrical or annular shape}	
N	H10N30/204	2	{using bending displacement, e.g. unimorph, bimorph or multimorph cantilever or membrane benders}	
N	H10N30/2041	3	{Beam type}	
N	H10N30/2042	4	{Cantilevers, i.e. having one fixed end}	
N	H10N30/2043	5	{connected at their free ends, e.g. parallelogram type}	
N	H10N30/2044	5	{having multiple segments mechanically connected in series, e.g. zig-zag type}	
N	H10N30/2045	5	{adapted for in-plane bending displacement}	
N	H10N30/2046	5	{adapted for multi-directional bending displacement}	
N	H10N30/2047	3	{Membrane type}	
N	H10N30/2048	4	{having non-planar shape}	
N	H10N30/206	2	{using only longitudinal or thickness displacement, e.g. d ₃₃ or d ₃₁ type devices}	
N	H10N30/208	2	{using shear or torsion displacement, e.g. d_{15} type devices}	
N	H10N30/30	1	with mechanical input and electrical output, e.g. functioning as generators or sensors	
N	H10N30/302	2	{Sensors}	
N	H10N30/304	2	{Beam type}	
N	H10N30/306	3	{Cantilevers}	
N	H10N30/308	2	{Membrane type}	
N	H10N30/40	1	with electrical input and electrical output, e.g. functioning as transformers	
N	H10N30/50	1	having a stacked or multilayer structure	
N	H10N30/501	2	{with non-rectangular cross-section in stacking direction, e.g. polygonal, trapezoidal}	
N	H10N30/503	2	{with non-rectangular cross-section orthogonal to the stacking direction, e.g. polygonal, circular}	
N	H10N30/505	3	{Annular cross-section}	
N	H10N30/506	2	{of cylindrical shape with stacking in radial direction, e.g. coaxial or spiral type rolls}	
N	H10N30/508	2	{adapted for alleviating internal stress, e.g. cracking control layers}	
N	H10N30/60	1	having a coaxial cable structure	
Q	H10N30/80	1	Constructional details	H10N30/80, H10N35/80
N	H10N30/802	2	{Drive or control circuitry or methods for piezoelectric or electrostrictive devices not otherwise provided for}	

DATE: FEBRUARY 1, 2023

N	H10N30/804	3	{for piezoelectric transformers (conversion of DC or AC power H02M; for operating discharge lamps H05B41/282)}	
Q	H10N30/85	2	Piezoelectric or electrostrictive active materials	H10N30/85, H10N35/85
N	H10N30/852	3	{Composite materials, e.g. having 1-3 or 2-2 type connectivity}	
N	H10N30/853	3	Ceramic compositions	
N	H10N30/8536	4	{Alkaline earth metal based oxides, e.g. barium titanates}	
N	H10N30/8542	4	{Alkali metal based oxides, e.g. lithium, sodium or potassium niobates}	
N	H10N30/8548	4	{Lead based oxides}	
N	H10N30/8554	5	{Lead zirconium titanate based}	
N	H10N30/8561	4	{Bismuth based oxides}	
N	H10N30/857	3	Macromolecular compositions	
N	H10N30/87	2	Electrodes or interconnections, e.g. leads or terminals	
N	H10N30/871	3	{Single-layered electrodes of multilayer piezoelectric or electrostrictive devices, e.g. internal electrodes}	
N	H10N30/872	3	{Connection electrodes of multilayer piezoelectric or electrostrictive devices, e.g. external electrodes}	
N	H10N30/874	4	{embedded within piezoelectric or electrostrictive material, e.g. via connections}	
N	H10N30/875	3	{Further connection or lead arrangements, e.g. flexible wiring boards, terminal pins}	
N	H10N30/877	3	{Conductive materials (in general H01B1/00)}	
N	H10N30/878	4	{the principal material being non-metallic, e.g. oxide or carbon based}	
N	H10N30/88	2	Mounts; Supports; Enclosures; Casings	
N	H10N30/883	3	{Further insulation means against electrical, physical or chemical damage, e.g. protective coatings}	
N	H10N30/886	3	{Mechanical prestressing means, e.g. springs (springs in general F16F1/00)}	
N	H10N35/00	0	Magnetostrictive devices (integrated devices or assemblies of multiple devices H10N39/00)	
N	H10N35/01	1	Manufacture or treatment	
N	H10N35/101	1	{with mechanical input and electrical output, e.g. generators, sensors}	
N	H10N35/80	1	Constructional details	
N	H10N35/85	2	Magnetostrictive active materials	
N	H10N39/00	0	Integrated devices, or assemblies of multiple devices, comprising at least one piezoelectric,	

DATE: FEBRUARY 1, 2023

			electrostrictive or magnetostrictive element covered by groups H10N30/00 – H10N35/00	
Q	H10N50/00	0	Galvanomagnetic devices (Hall-effect devices H10N52/00; integrated devices or assemblies of multiple devices H10N59/00)	H10N50/00, H10N50/20
N	H10N50/01	1	Manufacture or treatment	
N	H10N50/10	1	Magnetoresistive devices	
N	H10N50/20	1	Spin-polarised current-controlled devices (magnetoresistive devices H10N50/10)	
N	H10N50/80	1	Constructional details	
Q	H10N50/85	2	Magnetic active materials	H10N50/85, H10N52/85
N	H10N52/00	0	Hall-effect devices (integrated devices or assemblies of multiple devices H10N59/00)	
N	H10N52/01	1	Manufacture or treatment	
N	H10N52/101	1	{Semiconductor Hall-effect devices}	
N	H10N52/80	1	Constructional details	
N	H10N52/85	2	Magnetic active materials	
Q	H10N59/00	0	Integrated devices, or assemblies of multiple devices, comprising at least one galvanomagnetic or Hall-effect element covered by groups H10N 50/00 - H10N 52/00 (MRAM devices H10B 61/00)	H10N59/00, H10B61/00
N	H10N60/00	0	Superconducting devices (integrated devices or assemblies of multiple devices H10N69/00)	
N	H10N60/01	1	Manufacture or treatment	
N	H10N60/0128	2	{of composite superconductor filaments (comprising copper oxide H10N60/0268)}	
N	H10N60/0156	2	{of devices comprising Nb or an alloy of Nb with one or more of the elements of group 4, e.g. Ti, Zr, Hf}	
N	H10N60/0184	2	{of devices comprising intermetallic compounds of type A-15, e.g. Nb ₃ Sn}	
N	H10N60/0212	2	{of devices comprising molybdenum chalcogenides}	
N	H10N60/0241	2	{of devices comprising nitrides or carbonitrides}	
N	H10N60/0268	2	{of devices comprising copper oxide}	
N	H10N60/0296	3	{Processes for depositing or forming superconductor layers}	
N	H10N60/0324	4	{from a solution}	
N	H10N60/0352	4	{from a suspension or slurry, e.g. screen printing; doctor blade casting}	
N	H10N60/0381	4	{by evaporation independent of heat source,	
N			e.g. MBE}	

DATE: FEBRUARY 1, 2023

N	H10N60/0436	4	{by chemical vapour deposition [CVD]}	
N	H10N60/0464	5	{by metalloorganic chemical vapour deposition [MOCVD]}	
N	H10N60/0492	4	{by thermal spraying, e.g. plasma deposition}	
N	H10N60/0521	4	{by pulsed laser deposition, e.g. laser sputtering; laser ablation}	
N	H10N60/0548	4	{by precursor deposition followed by after-treatment, e.g. oxidation}	
N	H10N60/0576	4	{characterised by the substrate}	
N	H10N60/0604	5	{Monocrystalline substrates, e.g. epitaxial growth}	
N	H10N60/0632	5	{Intermediate layers, e.g. for growth control}	
N	H10N60/0661	3	{After-treatment, e.g. patterning}	
N	H10N60/0688	4	{Etching}	
N	H10N60/0716	4	{Passivation}	
N	H10N60/0744	3	{Manufacture or deposition of contacts or electrodes}	
N	H10N60/0772	3	{Processes including the use of precursors}	
N	H10N60/0801	3	{Processes peculiar to the manufacture or treatment of filaments or composite wires}	
N	H10N60/0828	3	{Introducing flux pinning centres}	
N	H10N60/0856	2	$ \{ \mbox{of devices comprising metal borides, e.g.} \\ \mbox{MgB}_2 \} $	
N	H10N60/0884	2	{Treatment of superconductor layers by irradiation, e.g. ion-beam, electron-beam, laser beam, X-rays (irradiation devices G21K, H01J)}	
N	H10N60/0912	2	{of Josephson-effect devices}	
N	H10N60/0941	3	{comprising high-T _c ceramic materials}	
N	H10N60/10	1	Junction-based devices	
N	H10N60/11	2	{Single electron tunnelling devices}	
N	H10N60/12	2	Josephson-effect devices	
N	H10N60/124	3	{comprising high-T _c ceramic materials}	
N	H10N60/126	3	{comprising metal borides, e.g. MgB ₂ }	
N	H10N60/128	2	{having three or more electrodes, e.g. transistor-like structures}	
N	H10N60/20	1	Permanent superconducting devices	
N	H10N60/202	2	{comprising metal borides, e.g. MgB ₂ }	
N	H10N60/203	2	{comprising high-T _c ceramic materials}	
N	H10N60/205	2	{having three or more electrodes, e.g. transistor-like structures (H10N60/128 takes precedence)}	

DATE: FEBRUARY 1, 2023

N	H10N60/207	3	{Field effect devices}	
N	H10N60/208	2	{based on Abrikosov vortices}	
N	H10N60/30	1	Devices switchable between superconducting and normal states	
N	H10N60/35	2	Cryotrons	
N	H10N60/355	3	Power cryotrons	
N	H10N60/80	1	Constructional details	
N	H10N60/805	2	{for Josephson-effect devices}	
N	H10N60/81	2	Containers; Mountings	
N	H10N60/815	3	{for Josephson-effect devices}	
N	H10N60/82	2	Current path	
N	H10N60/83	2	Element shape	
N	H10N60/84	2	Switching means for devices switchable between superconducting and normal states	
N	H10N60/85	2	Superconducting active materials	
N	H10N60/851	3	{Organic materials}	
N	H10N60/853	4	{Fullerene superconductors, e.g. soccerball-shaped allotrope of carbon, e.g. C ₆₀ , C ₉₄ (fullerenes in general C07C13/00)}	
N	H10N60/855	3	{Ceramic materials}	
N	H10N60/857	4	{comprising copper oxide}	
N	H10N60/858	5	{Multi-layered structures, e.g. superlattices}	
N	H10N60/99	1	{Alleged superconductivity}	
N	H10N69/00	0	Integrated devices, or assemblies of multiple devices, comprising at least one superconducting element covered by group H10N60/00	
N	H10N70/00	0	Solid-state devices without a potential-jump barrier or surface barrier, and specially adapted for rectifying, amplifying, oscillating or switching (integrated devices or assemblies of multiple devices H10N79/00)	
N	H10N70/011	1	{Manufacture or treatment of multistable switching devices}	
N	H10N70/021	2	{Formation of the switching material, e.g. layer deposition}	
N	H10N70/023	3	{by chemical vapor deposition, e.g. MOCVD, ALD}	
N	H10N70/026	3	{by physical vapor deposition, e.g. sputtering}	
N	H10N70/028	3	{by conversion of electrode material, e.g. oxidation}	

DATE: FEBRUARY 1, 2023

N	H10N70/041	2	{Modification of the switching material, e.g. post-treatment, doping}	
N	H10N70/043	3	{by implantation}	
N	H10N70/046	3	{by diffusion, e.g. photo-dissolution}	
N	H10N70/061	2	{Patterning of the switching material}	
N	H10N70/063	3	{by etching of pre-deposited switching material layers, e.g. lithography}	
N	H10N70/066	3	{by filling of openings, e.g. damascene method}	
N	H10N70/068	3	{by processes specially adapted for achieving sub-lithographic dimensions, e.g. using spacers}	
N	H10N70/10	1	Solid-state travelling-wave devices	
N	H10N70/151	1	{Charge density wave transport devices}	
N	H10N70/20	1	Multistable switching devices, e.g. memristors	
N	H10N70/231	2	{based on solid-state phase change, e.g. between amorphous and crystalline phases, Ovshinsky effect}	
N	H10N70/235	3	{between different crystalline phases, e.g. cubic and hexagonal}	
N	H10N70/24	2	{based on migration or redistribution of ionic species, e.g. anions, vacancies}	
N	H10N70/245	3	{the species being metal cations, e.g. programmable metallization cells}	
N	H10N70/25	2	{based on bulk electronic defects, e.g. trapping of electrons}	
N	H10N70/253	2	{having three or more terminals, e.g. transistor-like devices}	
N	H10N70/257	2	{based on radiation or particle beam assisted switching, e.g. optically controlled devices}	
N	H10N70/801	1	{Constructional details of multistable switching devices}	
N	H10N 70/821	2	{Device geometry}	
N	H10N 70/823	3	{adapted for essentially horizontal current flow, e.g. bridge type devices}	
N	H10N 70/826	3	{adapted for essentially vertical current flow, e.g. sandwich or pillar type devices}	
N	H10N 70/8265	4	{on sidewalls of dielectric structures, e.g. mesa or cup type devices}	
N	H10N 70/828	3	{Current flow limiting means within the switching material region, e.g. constrictions}	
N	H10N 70/841	2	{Electrodes}	

DATE: FEBRUARY 1, 2023

N	H10N 70/8413	3	{adapted for resistive heating}	
N	H10N 70/8416	3	{adapted for supplying ionic species}	
N	H10N 70/8418	3	{adapted for focusing electric field or current, e.g. tip-shaped}	
N	H10N 70/861	2	{Thermal details}	
N	H10N 70/8613	3	{Heating or cooling means other than resistive heating electrodes, e.g. heater in parallel}	
N	H10N 70/8616	3	{Thermal insulation means}	
N	H10N 70/881	2	{Switching materials}	
N	H10N 70/882	3	{Compounds of sulfur, selenium or tellurium, e.g. chalcogenides}	
N	H10N 70/8822	4	{Sulfides, e.g. CuS}	
N	H10N 70/8825	4	{Selenides, e.g. GeSe}	
N	H10N 70/8828	4	{Tellurides, e.g. GeSbTe}	
N	H10N 70/883	3	{Oxides or nitrides}	
N	H10N 70/8833	4	{Binary metal oxides, e.g. TaO _x }	
N	H10N 70/8836	4	{Complex metal oxides, e.g. perovskites, spinels}	
N	H10N70/884	3	{Other compounds of groups 13-15, e.g. elemental or compound semiconductors}	
N	H10N 70/8845	4	{Carbon or carbides}	
N	H10N79/00	0	Integrated devices, or assemblies of multiple devices, comprising at least one solid-state element covered by group H10N 70/00 (ReRAM devices H10B 63/00; PCRAM devices H10B 63/10)	
N	H10N80/00	0	Bulk negative-resistance effect devices (integrated devices or assemblies of multiple devices H10N89/00)	
N	H10N80/01	1	{Manufacture or treatment}	
N	H10N80/10	1	Gunn-effect devices	
N	H10N80/103	2	{controlled by electromagnetic radiation}	
N	H10N80/107	2	{Gunn diodes}	
N	H10N89/00	0	Integrated devices, or assemblies of multiple devices, comprising at least one bulk negative resistance effect element covered by group H10N80/00	
N	H10N89/02	1	{Gunn-effect devices}	
N	H10N97/00	0	Electric solid-state thin-film or thick-film devices, not otherwise provided for	
N	H10N99/00	0	Subject matter not provided for in other groups of this subclass	

DATE: FEBRUARY 1, 2023

PROJECT RP11761

N	H10N99/03	1	{Devices using Mott metal-insulator transition, e.g. field effect transistors}	
N	H10N99/05	1	{Quantum devices, e.g. quantum interference devices, metal single electron transistors}	

*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.
- For more details about the types of scheme change, see CPC Guide.

DATE: FEBRUARY 1, 2023

PROJECT RP11761

B. New, Modified or Deleted Warning notice(s)

SUBCLASS H01L - SEMICONDUCTOR DEVICES; ELECTRIC SOLID STATE DEVICES NOT OTHERWISE PROVIDED FOR

Type*	<u>Location</u>	Old Warning notice	New/Modified Warning notice
D	H01L 41/00	Delete entire warning	

SUBCLASS H10N - ELECTRIC SOLID-STATE DEVICES NOT OTHERWISE PROVIDED FOR

Type*	<u>Location</u>	Old Warning notice	New/Modified Warning notice
N	H10N 10/855		Group H10N 10/855 is impacted by reclassification into group H10N 10/8556. Groups H10N 10/855 and H10N 10/8556 should be considered in order to perform a complete search.
N	H10N 10/8556		Group H10N 10/8556 is incomplete pending reclassification of documents from group H10N 10/855. Groups H10N 10/855 and H10N 10/8556 should be considered in order to perform a complete search.
N	H10N 19/00		Group H10N 19/00 is incomplete pending reclassification of documents from groups H01L 25/16, H01L 25/162, H01L 25/165, H01L 25/167 and H01L 25/18. All groups listed in this Warning should be considered in order to perform a complete search.
N	H10N 30/00		Group H10N 30/00 is impacted by reclassification into group H10N 35/00. Groups H10N 30/00 and H10N 35/00 should be considered in order to perform a complete search.
N	H10N 30/80		Group H10N 30/80 is impacted by reclassification into group H10N 35/80. Groups H10N 30/80 and H10N 35/80 should be considered in order to perform a complete search.

DATE: FEBRUARY 1, 2023

Type*	<u>Location</u>	Old Warning notice	New/Modified Warning notice
N	H10N 30/85		Group H10N 30/85 is impacted by reclassification into group H10N 35/85. Groups H10N 30/85 and H10N 35/85 should be considered in order to perform a complete search.
N	H10N 35/00		Group H10N 35/00 is incomplete pending reclassification of documents from group H10N 30/00. Groups H10N 30/00 and H10N 35/00 should be considered in order to perform a complete search.
N	H10N 35/80		Group H10N 35/80 is incomplete pending reclassification of documents from group H10N 30/80. Groups H10N 30/80 and H10N 35/80 should be considered in order to perform a complete search.
N	H10N 35/85		Group H10N 35/85 is incomplete pending reclassification of documents from group H10N 30/85. Groups H10N 30/85 and H10N 35/85 should be considered in order to perform a complete search.
N	H10N 39/00		Group H10N 39/00 is incomplete pending reclassification of documents from groups H01L 25/16, H01L 25/162, H01L 25/165, H01L 25/167 and H01L 25/18. All groups listed in this Warning should be considered in order to perform a complete search.
N	H10N 50/00		Group H10N 50/00 is impacted by reclassification into group H10N 50/20. Groups H10N 50/00 and H10N 50/20 should be considered in order to perform a complete search.
N	H10N 50/20		Group H10N 50/20 is incomplete pending reclassification of documents from group H10N 50/00. Groups H10N 50/00 and H10N 50/20 should be considered in order to perform a complete search.
N	H10N 50/85		Group H10N 50/85 is impacted by reclassification into group

DATE: FEBRUARY 1, 2023

Type*	Location	Old Warning notice	New/Modified Warning notice
			H10N 52/85. Groups H10N 50/85 and H10N 52/85 should be considered in order to perform a complete search.
N	H10N 52/85		Group H10N 52/85 is incomplete pending reclassification of documents from group H10N 50/85. Groups H10N 50/85 and H10N 52/85 should be considered in order to perform a complete search.
N	H10N 59/00		Group H10N 59/00 is incomplete pending reclassification of documents from groups H01L 25/16, H01L 25/162, H01L 25/165, H01L 25/167 and H01L 25/18. Group H10N 59/00 is also impacted by reclassification into group H10B 61/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	H10N 69/00		Group H10N 69/00 is incomplete pending reclassification of documents from groups H01L 25/16, H01L 25/162, H01L 25/165, H01L 25/167 and H01L 25/18. All groups listed in this Warning should be considered in order to perform a complete search.
N	H10N 79/00		Group H10N 79/00 is incomplete pending reclassification of documents from groups H01L 25/16, H01L 25/162, H01L 25/165, H01L 25/167, H01L 25/18 and H10B 63/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	H10N 89/00		Group H10N 89/00 is incomplete pending reclassification of documents from groups H01L 25/16, H01L 25/162, H01L 25/165, H01L 25/167 and H01L 25/18. All groups listed in this Warning should be considered in order to perform a complete search.

^{*}N = new warning, M = modified warning, D = deleted warning

DATE: FEBRUARY 1, 2023

PROJECT RP11761

NOTE: The "Location" column only requires the symbol PRIOR to the location of the warning. No further directions such as "before" or "after" are required.

DATE: FEBRUARY 1, 2023

PROJECT RP11761

C. New, Modified or Deleted Note(s)

SUBCLASS H01L - SEMICONDUCTOR DEVICES; ELECTRIC SOLID STATE DEVICES NOT OTHERWISE PROVIDED FOR

Type*	<u>Location</u>	Old Note	New/Modified Note
D	H01L 39/00		Delete entire Note.
D	H01L 41/293		Delete entire Note.
D	H01L 41/297		Delete entire Note.

N = new note, M = modified note, D = deleted note

NOTE: The "Location" column only requires the symbol PRIOR to the location of the note. No further directions such as "before" or "after" are required.

DATE: FEBRUARY 1, 2023

PROJECT RP11761

D. New, Modified or Deleted Guidance Heading(s)

SUBCLASS H10N - ELECTRIC SOLID-STATE DEVICES NOT OTHERWISE PROVIDED FOR

Type*	Location	Old Guidance Heading	New/Modified Guidance Heading
N	H10N 10/00 -		Thermoelectric or thermomagnetic
	H10N 19/00		devices
N	H10N 30/00 -		Piezoelectric, electrostrictive or
	H10N 39/00		magnetostrictive devices
N	H10N 50/00 -		Galvanomagnetic or similar
	H10N 59/00		magnetic-effect devices
N	H10N 60/00 -		Superconducting devices
	H10N 69/00		
N	H10N 70/00 -		Other electric solid-state devices
	H10N 79/00		

^{*}N = new guidance heading, M =modified guidance heading, D = deleted guidance heading

NOTES:

- The "Location" column requires the symbol AFTER the guidance heading location. No further directions such as "before" or "after" are required.
- In cases where there may be confusion as to whether a new group falls within the scope of a guidance heading, indicate the guidance heading and whether the group does or does not go with the guidance heading. This can be included in the "Location" column. For example, the guidance heading "Compounds containing carbon together with sulfur, selenium or tellurium with or without hydrogen, halogens, oxygen or nitrogen" encompasses groups C07C 301/00-395/00 only. If a new group C07C 398/00 is proposed and is included in the guidance heading scope, indicate this in the "Location" column as follows: 398/00 to be included under the guidance heading: "Compounds containing carbon together with sulfur, selenium or tellurium with or without hydrogen, halogens, oxygen or nitrogen."

DATE: FEBRUARY 1, 2023

PROJECT RP11761

2. B. DEFINITIONS QUICK FIX

Symbol	Location of change	Existing reference symbol or text	Action; New symbol; New text
	(e.g., section title)		
H01L 27/16			Delete entire definition
H01L 27/18			Delete entire definition
H01L 27/20			Delete entire definition
H01L 27/26			Delete entire definition
H01L 35/00			Delete entire definition
H01L 35/04			Delete entire definition
H01L 35/06			Delete entire definition
H01L 35/08			Delete entire definition
H01L 35/10			Delete entire definition
H01L 35/12			Delete entire definition
H01L 35/16			Delete entire definition
H01L 35/18			Delete entire definition
H01L 35/20			Delete entire definition
H01L 35/22			Delete entire definition
H01L 35/24			Delete entire definition
H01L 35/26			Delete entire definition
H01L 35/30			Delete entire definition
H01L 35/32			Delete entire definition
H01L 35/325			Delete entire definition
H01L 35/34			Delete entire definition
H01L 37/00			Delete entire definition
H01L 37/02			Delete entire definition
H01L 37/025			Delete entire definition
H01L 37/04			Delete entire definition
H01L 39/00			Delete entire definition
H01L 39/02			Delete entire definition
H01L 39/10			Delete entire definition
H01L 39/12			Delete entire definition
H01L 39/128			Delete entire definition
H01L 39/16			Delete entire definition
H01L 39/20			Delete entire definition
H01L 39/2403			Delete entire definition
H01L 39/2451			Delete entire definition
H01L 39/2477			Delete entire definition
H01L 39/248			Delete entire definition
H01L 41/00			Delete entire definition
H01L 41/04			Delete entire definition
H01L 41/06			Delete entire definition
H01L 41/16			Delete entire definition
H01L 41/18			Delete entire definition

DATE: FEBRUARY 1, 2023

PROJECT RP11761

H01L 41/183	Delete entire definition
H01L 41/20	Delete entire definition
H01L 41/22	Delete entire definition
H01L 41/23	Delete entire definition
H01L 41/27	Delete entire definition
H01L 41/29	Delete entire definition
H01L 41/293	Delete entire definition
H01L 41/297	Delete entire definition
H01L 41/31	Delete entire definition
H01L 41/311	Delete entire definition
H01L 41/39	Delete entire definition
H01L 41/47	Delete entire definition
H01L 43/00	Delete entire definition
H01L 43/02	Delete entire definition
H01L 43/10	Delete entire definition
H01L 45/00	Delete entire definition
H01L 45/04	Delete entire definition
H01L 47/00	Delete entire definition
H01L 49/00	Delete entire definition

NOTES:

- The table above is used for corrections or modifications to existing definitions, e.g. delete an entire definition or part thereof; propose new wording or modify wording of a section, change the symbol the definition is associated with, change or delete a reference symbol, etc.
- Do not delete (F) symbol definitions.

DATE: FEBRUARY 1, 2023

PROJECT RP11761

3. REVISION CONCORDANCE LIST (RCL)

Type*	From CPC Symbol	To CPC Symbol(s)	
Type	(existing)	10 CI C Symbol(s)	
D	H01L 27/16	<administrative 00="" 19="" h10n="" to="" transfer=""></administrative>	
D	H01L 27/18	<administrative 00="" 69="" h10n="" to="" transfer=""></administrative>	
D	H01L 27/20	<administrative 00="" 39="" h10n="" to="" transfer=""></administrative>	
D	H01L 27/26	<administrative 00="" 89="" h10n="" to="" transfer=""></administrative>	
D	H01L 27/265	<administrative 02="" 89="" h10n="" to="" transfer=""></administrative>	
D	H01L 35/00	<administrative 00="" 10="" h10n="" to="" transfer=""></administrative>	
D	H01L 35/02	<administrative 10="" 80="" h10n="" to="" transfer=""></administrative>	
D	H01L 35/04	<administrative 10="" 81="" h10n="" to="" transfer=""></administrative>	
D	H01L 35/06	<administrative 10="" 813="" h10n="" to="" transfer=""></administrative>	
D	H01L 35/08	<administrative 10="" 817="" h10n="" to="" transfer=""></administrative>	
D	H01L 35/10	<administrative 10="" 82="" h10n="" to="" transfer=""></administrative>	
D	H01L 35/12	<administrative 10="" 85="" h10n="" to="" transfer=""></administrative>	
D	H01L 35/14	<administrative 10="" 851="" h10n="" to="" transfer=""></administrative>	
D	H01L 35/16	<administrative 10="" 852="" h10n="" to="" transfer=""></administrative>	
D	H01L 35/18	<administrative 10="" 853="" h10n="" to="" transfer=""></administrative>	
D	H01L 35/20	<administrative 10="" 854="" h10n="" to="" transfer=""></administrative>	
D	H01L 35/22	<administrative 10="" 855="" h10n="" to="" transfer=""></administrative>	
D	H01L 35/225	<administrative 10="" 8552="" h10n="" to="" transfer=""></administrative>	
D	H01L 35/24	<administrative 10="" 856="" h10n="" to="" transfer=""></administrative>	
D	H01L 35/26	<administrative 10="" 857="" h10n="" to="" transfer=""></administrative>	
D	H01L 35/28	<administrative 10="" h10n="" to="" transfer=""></administrative>	
D	H01L 35/30	<administrative 10="" 13="" h10n="" to="" transfer=""></administrative>	
D	H01L 35/32	<administrative 10="" 17="" h10n="" to="" transfer=""></administrative>	
D	H01L 35/325	<administrative 101="" 19="" h10n="" to="" transfer=""></administrative>	
D	H01L 35/34	<administrative 01="" 10="" h10n="" to="" transfer=""></administrative>	
D	H01L 37/00	<administrative 00="" 15="" h10n="" to="" transfer=""></administrative>	
D	H01L 37/02	<administrative 10="" 15="" h10n="" to="" transfer=""></administrative>	
D	H01L 37/025	<administrative 15="" h10n="" to="" transfer=""></administrative>	
D	H01L 37/04	<administrative 15="" 20="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/00	<administrative 00="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/005	<administrative 60="" 99="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/02	<administrative 60="" 80="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/025	<administrative 60="" 805="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/04	<administrative 60="" 805="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/045	<administrative 60="" 815="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/043	<administrative 60="" 82="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/08	<administrative 60="" 83="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/10	<administrative 60="" 84="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/10	<administrative 60="" 85="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/121	<administrative 60="" 85="" h10n="" to="" transfer=""> <administrative 60="" 851="" h10n="" to="" transfer=""></administrative></administrative>	
D		<administrative 60="" 853="" h10n="" to="" transfer=""></administrative>	
	H01L 39/123		
D	H01L 39/125	<administrative 60="" 855="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/126	<administrative 60="" 857="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/128	<administrative 60="" 858="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/14	<administrative 20="" 60="" h10n="" to="" transfer=""></administrative>	

DATE: FEBRUARY 1, 2023

Type*	From CPC Symbol	To CPC Symbol(s)	
	(existing)		
D	H01L 39/141	<administrative 202="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/143	<administrative 203="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/145	<administrative 205="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/146	<administrative 207="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/148	<administrative 208="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/16	<administrative 30="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/18	<administrative 35="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/20	<administrative 355="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/22	<administrative 10="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/221	<administrative 11="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/223	<administrative 12="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/225	<administrative 124="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/226	<administrative 126="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/228	<administrative 128="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/24	<administrative 01="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/2403	<administrative 0128="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/2406	<administrative 0156="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/2409	<administrative 0184="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/2412	<administrative 0212="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/2416	<administrative 0241="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/2419	<administrative 0268="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/2422	<administrative 0296="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/2425	<administrative 0324="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/2429	<administrative 0352="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/2432	<administrative 0381="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/2435	<administrative 0408="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/2438	<administrative 0436="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/2441	<administrative 0464="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/2445	<administrative 0492="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/2448	<administrative 0521="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/2451	<administrative 0548="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/2454	<administrative 0576="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/2458	<administrative 0604="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/2461	<administrative 0632="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/2464	<administrative 0661="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/2467	<administrative 0688="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/247	<administrative 0716="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/2474	<administrative 0744="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/2477	<administrative 0772="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/248	<administrative 0801="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/2483	<administrative 0828="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/2487	<administrative 0856="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/249	<administrative 0884="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/2493	<administrative 0912="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 39/2496	<administrative 0941="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/00	<administrative 00="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/02	<administrative 30="" 80="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/04	<administrative 30="" 80="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/042	<administrative 30="" 802="" h10n="" to="" transfer=""></administrative>	

DATE: FEBRUARY 1, 2023

Type*	From CPC Symbol	To CPC Symbol(s)	
	(existing)		
D	H01L 41/044	<administrative 30="" 804="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/047	<administrative 30="" 87="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/0471	<administrative 30="" 871="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/0472	<administrative 30="" 872="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/0474	<administrative 30="" 874="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/0475	<administrative 30="" 875="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/0477	<administrative 30="" 877="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/0478	<administrative 30="" 878="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/053	<administrative 30="" 88="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/0533	<administrative 30="" 883="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/0536	<administrative 30="" 886="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/06	<administrative 35="" 80="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/08	<administrative 00="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/0805	<administrative 1051="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/081	<administrative 10513="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/0815	<administrative 10516="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/082	<administrative 1061="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/0825	<administrative 1071="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/083	<administrative 30="" 50="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/0831	<administrative 30="" 501="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/0833	<administrative 30="" 503="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/0835	<administrative 30="" 505="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/0836	<administrative 30="" 506="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/0838	<administrative 30="" 508="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/087	<administrative 30="" 60="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/09	<administrative 20="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/0906	<administrative 202="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/0913	<administrative 2023="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/092	<administrative 2027="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/0926	<administrative 204="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/0933	<administrative 2041="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/094	<administrative 2042="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/0946	<administrative 2043="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/0953	<administrative 2044="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/096	<administrative 2045="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/0966	<administrative 2046="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/0973	<administrative 2047="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/098	<administrative 2048="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/0986	<administrative 206="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/0993	<administrative 208="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/107	<administrative 30="" 40="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/113	<administrative 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/1132	<administrative 30="" 302="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/1134	<administrative 30="" 304="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/1136	<administrative 30="" 306="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/1138	<administrative 30="" 308="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/12	<administrative 00="" 35="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/125	<administrative 101="" 35="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/16	<administrative 30="" 85="" h10n="" to="" transfer=""></administrative>	

DATE: FEBRUARY 1, 2023

Type*	From CPC Symbol	To CPC Symbol(s)	
	(existing)		
D	H01L 41/18	<administrative 30="" 85="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/183	<administrative 30="" 852="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/187	<administrative 30="" 853="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/1871	<administrative 30="" 8536="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/1873	<administrative 30="" 8542="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/1875	<administrative 30="" 8548="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/1876	<administrative 30="" 8554="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/1878	<administrative 30="" 8561="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/193	<administrative 30="" 857="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/20	<administrative 35="" 85="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/22	<administrative 01="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/23	<administrative 02="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/25	<administrative 03="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/253	<administrative 04="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/257	<administrative 045="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/27	<administrative 05="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/273	<administrative 053="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/277	<administrative 057="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/29	<administrative 06="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/293	<administrative 063="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/297	<administrative 067="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/31	<administrative 07="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/311	<administrative 071="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/312	<administrative 072="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/313	<administrative 073="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/314	<administrative 074="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/316	<administrative 076="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/317	<administrative 077="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/318	<administrative 078="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/319	<administrative 079="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/33	<administrative 08="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/331	<administrative 081="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/332	<administrative 082="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/333	<administrative 084="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/335	<administrative 085="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/337	<administrative 086="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/338	<administrative 088="" 30="" h10n="" to="" transfer=""></administrative>	
D D	H01L 41/339	<administrative 089="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/35	<administrative 09="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/37	<administrative 092="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/39	<administrative 093="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/41	<administrative 095="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/43	<administrative 097="" 30="" h10n="" to="" transfer=""></administrative>	
D	H01L 41/45	<administrative 098="" 30="" h10n="" to="" transfer=""></administrative>	
	H01L 41/47	<administrative 01="" 35="" h10n="" to="" transfer=""></administrative>	
D	H01L 43/00	<administrative 00="" 50="" h10n="" to="" transfer=""></administrative>	
D	H01L 43/02	<administrative 50="" 80="" h10n="" to="" transfer=""></administrative>	
D	H01L 43/04	<administrative 52="" 80="" h10n="" to="" transfer=""></administrative>	
D	H01L 43/06	<administrative 00="" 52="" h10n="" to="" transfer=""></administrative>	

DATE: FEBRUARY 1, 2023

Type*	From CPC Symbol	To CPC Symbol(s)	
	(existing)		
D	H01L 43/065	<administrative 101="" 52="" h10n="" to="" transfer=""></administrative>	
D	H01L 43/08	<administrative 10="" 50="" h10n="" to="" transfer=""></administrative>	
D	H01L 43/10	<administrative 50="" 85="" h10n="" to="" transfer=""></administrative>	
D	H01L 43/12	<administrative 01="" 50="" h10n="" to="" transfer=""></administrative>	
D	H01L 43/14	<administrative 01="" 52="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/00	<administrative 00="" 70="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/005	<administrative 151="" 70="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/02	<administrative 10="" 70="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/04	<administrative 20="" 70="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/06	<administrative 231="" 70="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/065	<administrative 235="" 70="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/08	<administrative 24="" 70="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/085	<administrative 245="" 70="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/10	<administrative 25="" 70="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/12	<administrative 70="" 801="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/1206	<administrative 253="" 70="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/1213	<administrative 257="" 70="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/122	<administrative 70="" 821="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/1226	<administrative 70="" 823="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/1233	<administrative 70="" 826="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/124	<administrative 70="" 8265="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/1246	<administrative 70="" 828="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/1253	<administrative 70="" 841="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/126	<administrative 70="" 8413="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/1266	<administrative 70="" 8416="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/1273	<administrative 70="" 8418="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/128	<administrative 70="" 861="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/1286	<administrative 70="" 8613="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/1293	<administrative 70="" 8616="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/14	<administrative 70="" 881="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/141	<administrative 70="" 882="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/142	<administrative 70="" 8822="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/143	<administrative 70="" 8825="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/144	<administrative 70="" 8828="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/145	<administrative 70="" 883="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/146	<administrative 70="" 8833="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/147	<administrative 70="" 8836="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/148	<administrative 70="" 884="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/149	<administrative 70="" 8845="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/16	<administrative 011="" 70="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/1608	<administrative 021="" 70="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/1616	<administrative 023="" 70="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/1625	<administrative 026="" 70="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/1633	<administrative 028="" 70="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/1641	<administrative 041="" 70="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/165	<administrative 043="" 70="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/1658	<administrative 046="" 70="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/1666	<administrative 061="" 70="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/1675	<administrative 063="" 70="" h10n="" to="" transfer=""></administrative>	

DATE: FEBRUARY 1, 2023

PROJECT RP11761

Type*	From CPC Symbol	To CPC Symbol(s)	
	(existing)		
D	H01L 45/1683	<administrative 066="" 70="" h10n="" to="" transfer=""></administrative>	
D	H01L 45/1691	<administrative 068="" 70="" h10n="" to="" transfer=""></administrative>	
D	H01L 47/00	<administrative 00="" 80="" h10n="" to="" transfer=""></administrative>	
D	H01L 47/005	<administrative 01="" 80="" h10n="" to="" transfer=""></administrative>	
D	H01L 47/02	<administrative 10="" 80="" h10n="" to="" transfer=""></administrative>	
D	H01L 47/023	<administrative 103="" 80="" h10n="" to="" transfer=""></administrative>	
D	H01L 47/026	<administrative 107="" 80="" h10n="" to="" transfer=""></administrative>	
D	H01L 49/00	<administrative 00="" 99="" h10n="" to="" transfer=""></administrative>	
D	H01L 49/003	<administrative 03="" 99="" h10n="" to="" transfer=""></administrative>	
D	H01L 49/006	<administrative 05="" 99="" h10n="" to="" transfer=""></administrative>	
D	H01L 49/02	<administrative 00="" 97="" h10n="" to="" transfer=""></administrative>	
Q	H10N 10/855	H10N 10/855, H10N 10/8556	
Q	H10N 30/00	H10N 30/00, H10N 35/00	
Q	H10N 30/80	H10N 30/80, H10N 35/80	
Q	H10N 30/85	H10N 30/85, H10N 35/85	
Q	H10N 50/00	H10N 50/00, H10N 50/20	
Q	H10N 50/85	H10N 50/85, H10N 52/85	
Q	H10N 59/00	H10N 59/00, H10B 61/00	

^{*} 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; D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed.

NOTES:

- Only C, D, F, and Q type entries are included in the table above.
- When multiple symbols are included in the "To" column, do not use ranges of symbols.
- 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 ("To") symbol, however it is required to specify "<no transfer>" in the "To" column for such cases.
- RCL is not needed for finalisation projects.

DATE: FEBRUARY 1, 2023

PROJECT RP11761

4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

<u>CPC</u>	<u>IPC</u>	Action*
H01L 27/16		DELETE
H01L 27/18		DELETE
H01L 27/20		DELETE
H01L 27/26		DELETE
H01L 27/265		DELETE
H01L 35/00		DELETE
H01L 35/02		DELETE
H01L 35/04		DELETE
H01L 35/06		DELETE
H01L 35/08		DELETE
H01L 35/10		DELETE
H01L 35/12		DELETE
H01L 35/14		DELETE
H01L 35/16		DELETE
H01L 35/18		DELETE
H01L 35/20		DELETE
H01L 35/22		DELETE
H01L 35/225		DELETE
H01L 35/24		DELETE
H01L 35/26		DELETE
H01L 35/28		DELETE
H01L 35/30		DELETE
H01L 35/32		DELETE
H01L 35/325		DELETE
H01L 35/34		DELETE
H01L 37/00		DELETE
H01L 37/02		DELETE
H01L 37/025		DELETE
H01L 37/04		DELETE
H01L 39/00		DELETE
H01L 39/005		DELETE
H01L 39/02		DELETE
H01L 39/025		DELETE
H01L 39/04		DELETE
H01L 39/045		DELETE
H01L 39/06		DELETE
H01L 39/08		DELETE
H01L 39/10		DELETE

DATE: FEBRUARY 1, 2023

HOIL 39/12 DELETE	CPC	<u>IPC</u>	Action*
HOIL 39/121 DELETE	H01I 30/12		DEI ETE
HOIL 39/123 DELETE HOIL 39/125 DELETE HOIL 39/126 DELETE HOIL 39/128 DELETE HOIL 39/14 DELETE HOIL 39/141 DELETE HOIL 39/143 DELETE HOIL 39/145 DELETE HOIL 39/146 DELETE HOIL 39/146 DELETE HOIL 39/146 DELETE HOIL 39/18 DELETE HOIL 39/18 DELETE HOIL 39/18 DELETE HOIL 39/20 DELETE HOIL 39/21 DELETE HOIL 39/22 DELETE HOIL 39/24 DELETE HOIL 39/24 DELETE HOIL 39/240 DELETE HOIL 39/240 DELETE HOIL 39/2410 DELETE HOIL 39/2410 DELETE HOIL 39/2412 DELETE HOIL 39/242 DELETE HOIL 39/243 DELETE HOIL 39/243 DELETE HOIL 39/2445 DELETE HOIL 39/2438 DELETE HOIL 39/2444 DELETE HOIL 39/2444 DELETE HOIL 39/2445 DELETE HOIL 39/2454 DELETE HOIL 39/2456 DELETE HOIL 39/2466 DELETE HOIL 39/2467 DE			
HOIL 39/125 DELETE HOIL 39/126 DELETE HOIL 39/14 DELETE HOIL 39/14 DELETE HOIL 39/141 DELETE HOIL 39/141 DELETE HOIL 39/145 DELETE HOIL 39/145 DELETE HOIL 39/146 DELETE HOIL 39/148 DELETE HOIL 39/16 DELETE HOIL 39/16 DELETE HOIL 39/16 DELETE HOIL 39/20 DELETE HOIL 39/20 DELETE HOIL 39/21 DELETE HOIL 39/22 DELETE HOIL 39/22 DELETE HOIL 39/22 DELETE HOIL 39/22 DELETE HOIL 39/225 DELETE HOIL 39/226 DELETE HOIL 39/226 DELETE HOIL 39/240 DELETE HOIL 39/2400 DELETE HOIL 39/2400 DELETE HOIL 39/2400 DELETE HOIL 39/2410 DELETE HOIL 39/2421 DELETE HOIL 39/2410 DELETE HOIL 39/2430 DELETE HOIL 39/2441 DELETE HOIL 39/2430 DELETE HOIL 39/2441 DELETE HOIL 39/2441 DELETE HOIL 39/2445 DELETE HOIL 39/2450 DELETE HOIL 39/2451 DELETE HOIL 39/2451 DELETE HOIL 39/2454 DELETE HOIL 39/2461 DELETE HOIL 39/2467 DELETE			
HOIL 39/126 DELETE HOIL 39/14 DELETE HOIL 39/14 DELETE HOIL 39/141 DELETE HOIL 39/143 DELETE HOIL 39/145 DELETE HOIL 39/146 DELETE HOIL 39/148 DELETE HOIL 39/16 DELETE HOIL 39/16 DELETE HOIL 39/18 DELETE HOIL 39/20 DELETE HOIL 39/22 DELETE HOIL 39/24 DELETE HOIL 39/24 DELETE HOIL 39/240 DELETE HOIL 39/240 DELETE HOIL 39/240 DELETE HOIL 39/2410 DELETE HOIL 39/2410 DELETE HOIL 39/242 DELETE HOIL 39/243 DELETE HOIL 39/2444 DELETE HOIL 39/245 DELETE HOIL 39/2461 DELETE HOIL 39/2467			
HOIL 39/128 DELETE HOIL 39/141 DELETE HOIL 39/143 DELETE HOIL 39/145 DELETE HOIL 39/146 DELETE HOIL 39/146 DELETE HOIL 39/146 DELETE HOIL 39/146 DELETE HOIL 39/18 DELETE HOIL 39/18 DELETE HOIL 39/18 DELETE HOIL 39/20 DELETE HOIL 39/21 DELETE HOIL 39/22 DELETE HOIL 39/22 DELETE HOIL 39/221 DELETE HOIL 39/225 DELETE HOIL 39/225 DELETE HOIL 39/226 DELETE HOIL 39/226 DELETE HOIL 39/240 DELETE HOIL 39/240 DELETE HOIL 39/2400 DELETE HOIL 39/2409 DELETE HOIL 39/2412 DELETE HOIL 39/2412 DELETE HOIL 39/2419 DELETE HOIL 39/2429 DELETE HOIL 39/2429 DELETE HOIL 39/2438 DELETE HOIL 39/2438 DELETE HOIL 39/2441 DELETE HOIL 39/2445 DELETE HOIL 39/2444 DELETE HOIL 39/2445 DELETE HOIL 39/2445 DELETE HOIL 39/2451 DELETE HOIL 39/2454 DELETE HOIL 39/2454 DELETE HOIL 39/2456 DELETE HOIL 39/2456 DELETE HOIL 39/2456 DELETE HOIL 39/2456 DELETE HOIL 39/2466 DELETE HOIL 39/2467 DELETE HOIL 39/2467 DELETE HOIL 39/2467 DELETE HOIL 39/2466 DELETE HOIL 39/2467 DELETE HOIL 39/2466 DELETE HOIL 39/2466 DELETE HOIL 39/2466 DELETE HOIL 39/2467 DELE			
HOIL 39/14 DELETE			
HOIL 39/141 DELETE			
HOIL 39/143 DELETE			
HOIL 39/145 DELETE HOIL 39/146 DELETE HOIL 39/148 DELETE HOIL 39/18 DELETE HOIL 39/18 DELETE HOIL 39/20 DELETE HOIL 39/20 DELETE HOIL 39/21 DELETE HOIL 39/22 DELETE HOIL 39/221 DELETE HOIL 39/223 DELETE HOIL 39/225 DELETE HOIL 39/226 DELETE HOIL 39/246 DELETE HOIL 39/240 DELETE HOIL 39/2410 DELETE HOIL 39/2412 DELETE HOIL 39/2416 DELETE HOIL 39/2422 DELETE HOIL 39/2422 DELETE HOIL 39/2425 DELETE HOIL 39/2425 DELETE HOIL 39/2438 DELETE HOIL 39/2438 DELETE HOIL 39/2444 DELETE HOIL 39/2445 DELETE HOIL 39/2445 DELETE HOIL 39/2446 DELETE HOIL 39/2458 DELETE HOIL 39/2461 DELETE HOIL 39/2467			
HOIL 39/146 DELETE HOIL 39/148 DELETE HOIL 39/16 DELETE HOIL 39/16 DELETE HOIL 39/20 DELETE HOIL 39/22 DELETE HOIL 39/24 DELETE HOIL 39/240 DELETE HOIL 39/2403 DELETE HOIL 39/2406 DELETE HOIL 39/2409 DELETE HOIL 39/2410 DELETE HOIL 39/2410 DELETE HOIL 39/2412 DELETE HOIL 39/242 DELETE HOIL 39/243 DELETE HOIL 39/2445 DELETE HOIL 39/2444 DELETE HOIL 39/2445 DELETE HOIL 39/2445 DELETE HOIL 39/2446 DELETE HOIL 39/2458 DELETE HOIL 39/2458 DELETE HOIL 39/2458 DELETE HOIL 39/2458 DELETE HOIL 39/2464 DELETE HOIL 39/2467 DELETE			
HOIL 39/148 DELETE HOIL 39/16 DELETE HOIL 39/18 DELETE HOIL 39/20 DELETE HOIL 39/22 DELETE HOIL 39/22 DELETE HOIL 39/22 DELETE HOIL 39/22 DELETE HOIL 39/23 DELETE HOIL 39/25 DELETE HOIL 39/26 DELETE HOIL 39/28 DELETE HOIL 39/24 DELETE HOIL 39/240 DELETE HOIL 39/240 DELETE HOIL 39/240 DELETE HOIL 39/2406 DELETE HOIL 39/2409 DELETE HOIL 39/2410 DELETE HOIL 39/2410 DELETE HOIL 39/2412 DELETE HOIL 39/2419 DELETE HOIL 39/2422 DELETE HOIL 39/2425 DELETE HOIL 39/2425 DELETE HOIL 39/2429 DELETE HOIL 39/2435 DELETE HOIL 39/2435 DELETE HOIL 39/2438 DELETE HOIL 39/2441 DELETE HOIL 39/2441 DELETE HOIL 39/2445 DELETE HOIL 39/2445 DELETE HOIL 39/2446 DELETE HOIL 39/2458 DELETE HOIL 39/2458 DELETE HOIL 39/2458 DELETE HOIL 39/2461 DELETE HOIL 39/2464 DELETE HOIL 39/2467 DEL			
HOIL 39/16 DELETE HOIL 39/18 DELETE HOIL 39/20 DELETE HOIL 39/21 DELETE HOIL 39/221 DELETE HOIL 39/223 DELETE HOIL 39/223 DELETE HOIL 39/225 DELETE HOIL 39/246 DELETE HOIL 39/240 DELETE HOIL 39/2410 DELETE HOIL 39/2412 DELETE HOIL 39/2414 DELETE HOIL 39/2415 DELETE HOIL 39/2422 DELETE HOIL 39/2432 DELETE HOIL 39/2435 DELETE HOIL 39/2436 DELETE HOIL 39/2438 DELETE HOIL 39/2448 DELETE HOIL 39/245 DELETE HOIL 39/245 DELETE HOIL 39/245 DELETE HOIL 39/2436 DELETE HOIL 39/2441 DELETE HOIL 39/245 DELETE HOIL 39/246 DELETE HOIL 39/2464 DELETE HOIL 39/2464 DELETE HOIL 39/2467 DELETE			
HOIL 39/18			
H01L 39/22			
H01L 39/22			
H01L 39/223 DELETE H01L 39/225 DELETE H01L 39/226 DELETE H01L 39/228 DELETE H01L 39/240 DELETE H01L 39/2403 DELETE H01L 39/2406 DELETE H01L 39/2409 DELETE H01L 39/2412 DELETE H01L 39/2413 DELETE H01L 39/2419 DELETE H01L 39/2422 DELETE H01L 39/2425 DELETE H01L 39/2429 DELETE H01L 39/2432 DELETE H01L 39/2435 DELETE H01L 39/2448 DELETE H01L 39/2445 DELETE H01L 39/2445 DELETE H01L 39/2445 DELETE H01L 39/2448 DELETE H01L 39/2448 DELETE H01L 39/2448 DELETE H01L 39/2446 DELETE H01L 39/2454 DELETE H01L 39/2454 DELETE H01L 39/2464 DELETE H01L 39/2464 DELETE <td></td> <td></td> <td></td>			
H01L 39/223 DELETE H01L 39/226 DELETE H01L 39/228 DELETE H01L 39/244 DELETE H01L 39/2403 DELETE H01L 39/2406 DELETE H01L 39/2409 DELETE H01L 39/2412 DELETE H01L 39/2414 DELETE H01L 39/2419 DELETE H01L 39/2429 DELETE H01L 39/2425 DELETE H01L 39/2432 DELETE H01L 39/2435 DELETE H01L 39/2438 DELETE H01L 39/2441 DELETE H01L 39/2445 DELETE H01L 39/2448 DELETE H01L 39/2448 DELETE H01L 39/2451 DELETE H01L 39/2454 DELETE H01L 39/2458 DELETE H01L 39/2461 DELETE H01L 39/2461 DELETE			
H01L 39/225 DELETE H01L 39/226 DELETE H01L 39/24 DELETE H01L 39/2403 DELETE H01L 39/2406 DELETE H01L 39/2409 DELETE H01L 39/2412 DELETE H01L 39/2416 DELETE H01L 39/2419 DELETE H01L 39/2422 DELETE H01L 39/2425 DELETE H01L 39/2429 DELETE H01L 39/2432 DELETE H01L 39/2435 DELETE H01L 39/2436 DELETE H01L 39/2438 DELETE H01L 39/2441 DELETE H01L 39/2445 DELETE H01L 39/2446 DELETE H01L 39/2451 DELETE H01L 39/2454 DELETE H01L 39/2458 DELETE H01L 39/2461 DELETE H01L 39/2467 DELETE			
H01L 39/226 DELETE H01L 39/24 DELETE H01L 39/2403 DELETE H01L 39/2406 DELETE H01L 39/2409 DELETE H01L 39/2412 DELETE H01L 39/2416 DELETE H01L 39/2419 DELETE H01L 39/2422 DELETE H01L 39/2425 DELETE H01L 39/2430 DELETE H01L 39/2431 DELETE H01L 39/2438 DELETE H01L 39/2441 DELETE H01L 39/2445 DELETE H01L 39/2446 DELETE H01L 39/2458 DELETE H01L 39/2461 DELETE H01L 39/2461 DELETE H01L 39/2467 DELETE			
H01L 39/24 DELETE H01L 39/2403 DELETE H01L 39/2406 DELETE H01L 39/2409 DELETE H01L 39/2412 DELETE H01L 39/2416 DELETE H01L 39/2419 DELETE H01L 39/2422 DELETE H01L 39/2425 DELETE H01L 39/2429 DELETE H01L 39/2432 DELETE H01L 39/2435 DELETE H01L 39/2438 DELETE H01L 39/2441 DELETE H01L 39/2445 DELETE H01L 39/2446 DELETE H01L 39/2458 DELETE H01L 39/2461 DELETE H01L 39/2467 DELETE			
H01L 39/2403 DELETE H01L 39/2406 DELETE H01L 39/2409 DELETE H01L 39/2412 DELETE H01L 39/2416 DELETE H01L 39/2419 DELETE H01L 39/2422 DELETE H01L 39/2425 DELETE H01L 39/2429 DELETE H01L 39/2432 DELETE H01L 39/2435 DELETE H01L 39/2438 DELETE H01L 39/2441 DELETE H01L 39/2445 DELETE H01L 39/2448 DELETE H01L 39/2451 DELETE H01L 39/2454 DELETE H01L 39/2458 DELETE H01L 39/2461 DELETE H01L 39/2467 DELETE			
H01L 39/2403 DELETE H01L 39/2406 DELETE H01L 39/2419 DELETE H01L 39/2416 DELETE H01L 39/2419 DELETE H01L 39/2422 DELETE H01L 39/2425 DELETE H01L 39/2429 DELETE H01L 39/2432 DELETE H01L 39/2435 DELETE H01L 39/2438 DELETE H01L 39/2441 DELETE H01L 39/2445 DELETE H01L 39/2448 DELETE H01L 39/2451 DELETE H01L 39/2454 DELETE H01L 39/2458 DELETE H01L 39/2461 DELETE H01L 39/2467 DELETE			DELETE
H01L 39/2406 DELETE H01L 39/2412 DELETE H01L 39/2416 DELETE H01L 39/2419 DELETE H01L 39/2422 DELETE H01L 39/2425 DELETE H01L 39/2429 DELETE H01L 39/2432 DELETE H01L 39/2435 DELETE H01L 39/2438 DELETE H01L 39/2441 DELETE H01L 39/2445 DELETE H01L 39/2448 DELETE H01L 39/2451 DELETE H01L 39/2454 DELETE H01L 39/2458 DELETE H01L 39/2461 DELETE H01L 39/2467 DELETE			
H01L 39/2409 DELETE H01L 39/2416 DELETE H01L 39/2419 DELETE H01L 39/2422 DELETE H01L 39/2425 DELETE H01L 39/2429 DELETE H01L 39/2432 DELETE H01L 39/2435 DELETE H01L 39/2438 DELETE H01L 39/2441 DELETE H01L 39/2445 DELETE H01L 39/2448 DELETE H01L 39/2451 DELETE H01L 39/2454 DELETE H01L 39/2458 DELETE H01L 39/2461 DELETE H01L 39/2464 DELETE H01L 39/2467 DELETE			DELETE
H01L 39/2416 DELETE H01L 39/2419 DELETE H01L 39/2422 DELETE H01L 39/2425 DELETE H01L 39/2429 DELETE H01L 39/2432 DELETE H01L 39/2435 DELETE H01L 39/2438 DELETE H01L 39/2441 DELETE H01L 39/2445 DELETE H01L 39/2448 DELETE H01L 39/2451 DELETE H01L 39/2454 DELETE H01L 39/2458 DELETE H01L 39/2461 DELETE H01L 39/2467 DELETE			
DELETE			DELETE
H01L 39/2419 DELETE H01L 39/2422 DELETE H01L 39/2425 DELETE H01L 39/2429 DELETE H01L 39/2432 DELETE H01L 39/2435 DELETE H01L 39/2438 DELETE H01L 39/2441 DELETE H01L 39/2445 DELETE H01L 39/2448 DELETE H01L 39/2451 DELETE H01L 39/2454 DELETE H01L 39/2458 DELETE H01L 39/2461 DELETE H01L 39/2464 DELETE H01L 39/2467 DELETE	H01L 39/2412		DELETE
H01L 39/2422 DELETE H01L 39/2425 DELETE H01L 39/2429 DELETE H01L 39/2432 DELETE H01L 39/2435 DELETE H01L 39/2448 DELETE H01L 39/2445 DELETE H01L 39/2448 DELETE H01L 39/2451 DELETE H01L 39/2454 DELETE H01L 39/2458 DELETE H01L 39/2461 DELETE H01L 39/2467 DELETE			
H01L 39/2425 DELETE H01L 39/2432 DELETE H01L 39/2435 DELETE H01L 39/2438 DELETE H01L 39/2441 DELETE H01L 39/2445 DELETE H01L 39/2448 DELETE H01L 39/2451 DELETE H01L 39/2454 DELETE H01L 39/2458 DELETE H01L 39/2461 DELETE H01L 39/2467 DELETE	H01L 39/2419		DELETE
H01L 39/2429 DELETE H01L 39/2432 DELETE H01L 39/2435 DELETE H01L 39/2438 DELETE H01L 39/2441 DELETE H01L 39/2445 DELETE H01L 39/2448 DELETE H01L 39/2451 DELETE H01L 39/2454 DELETE H01L 39/2458 DELETE H01L 39/2461 DELETE H01L 39/2464 DELETE H01L 39/2467 DELETE	H01L 39/2422		DELETE
H01L 39/2432 DELETE H01L 39/2435 DELETE H01L 39/2438 DELETE H01L 39/2441 DELETE H01L 39/2445 DELETE H01L 39/2448 DELETE H01L 39/2451 DELETE H01L 39/2454 DELETE H01L 39/2458 DELETE H01L 39/2461 DELETE H01L 39/2464 DELETE H01L 39/2467 DELETE	H01L 39/2425		DELETE
H01L 39/2435 DELETE H01L 39/2438 DELETE H01L 39/2441 DELETE H01L 39/2445 DELETE H01L 39/2448 DELETE H01L 39/2451 DELETE H01L 39/2454 DELETE H01L 39/2458 DELETE H01L 39/2461 DELETE H01L 39/2464 DELETE H01L 39/2467 DELETE			DELETE
H01L 39/2438 DELETE H01L 39/2441 DELETE H01L 39/2445 DELETE H01L 39/2448 DELETE H01L 39/2451 DELETE H01L 39/2454 DELETE H01L 39/2458 DELETE H01L 39/2461 DELETE H01L 39/2464 DELETE H01L 39/2467 DELETE	H01L 39/2432		DELETE
H01L 39/2441 DELETE H01L 39/2445 DELETE H01L 39/2448 DELETE H01L 39/2451 DELETE H01L 39/2454 DELETE H01L 39/2458 DELETE H01L 39/2461 DELETE H01L 39/2464 DELETE H01L 39/2467 DELETE	H01L 39/2435		DELETE
H01L 39/2445 DELETE H01L 39/2448 DELETE H01L 39/2451 DELETE H01L 39/2454 DELETE H01L 39/2458 DELETE H01L 39/2461 DELETE H01L 39/2464 DELETE H01L 39/2467 DELETE	H01L 39/2438		DELETE
H01L 39/2448 DELETE H01L 39/2451 DELETE H01L 39/2454 DELETE H01L 39/2458 DELETE H01L 39/2461 DELETE H01L 39/2464 DELETE H01L 39/2467 DELETE	H01L 39/2441		DELETE
H01L 39/2451 H01L 39/2454 DELETE H01L 39/2458 DELETE H01L 39/2461 DELETE H01L 39/2464 DELETE H01L 39/2467 DELETE DELETE	H01L 39/2445		DELETE
H01L 39/2454 DELETE H01L 39/2458 DELETE H01L 39/2461 DELETE H01L 39/2464 DELETE H01L 39/2467 DELETE	H01L 39/2448		DELETE
H01L 39/2458 H01L 39/2461 DELETE H01L 39/2464 DELETE H01L 39/2467 DELETE DELETE	H01L 39/2451		DELETE
H01L 39/2461 DELETE H01L 39/2464 DELETE H01L 39/2467 DELETE	H01L 39/2454		DELETE
H01L 39/2461 DELETE H01L 39/2464 DELETE H01L 39/2467 DELETE	H01L 39/2458		DELETE
H01L 39/2464 DELETE H01L 39/2467 DELETE	H01L 39/2461		DELETE
H01L 39/2467 DELETE	H01L 39/2464		
	H01L 39/247		DELETE

DATE: FEBRUARY 1, 2023

CPC	<u>IPC</u>	Action*
H01L 39/2474		DELETE
H01L 39/2477		DELETE
H01L 39/248		DELETE
H01L 39/2483		DELETE
H01L 39/2487		DELETE
H01L 39/249		DELETE
H01L 39/2493		DELETE
H01L 39/2496		DELETE
H01L 41/00		DELETE
H01L 41/02		DELETE
H01L 41/04		DELETE
H01L 41/042		DELETE
H01L 41/044		DELETE
H01L 41/047		DELETE
H01L 41/0471		DELETE
H01L 41/0472		DELETE
H01L 41/0474		DELETE
H01L 41/0475		DELETE
H01L 41/0477		DELETE
H01L 41/0478		DELETE
H01L 41/053		DELETE
H01L 41/0533		DELETE
H01L 41/0536		DELETE
H01L 41/06		DELETE
H01L 41/08		DELETE
H01L 41/0805		DELETE
H01L 41/081		DELETE
H01L 41/0815		DELETE
H01L 41/082		DELETE
H01L 41/0825		DELETE
H01L 41/083		DELETE
H01L 41/0831		DELETE
H01L 41/0833		DELETE
H01L 41/0835		DELETE
H01L 41/0836		DELETE
H01L 41/0838		DELETE
H01L 41/087		DELETE
H01L 41/09		DELETE
H01L 41/0906		DELETE
H01L 41/0913		DELETE
H01L 41/092		DELETE
H01L 41/0926		DELETE
H01L 41/0933		DELETE
H01L 41/094		DELETE

DATE: FEBRUARY 1, 2023

CPC	<u>IPC</u>	Action*
H01L 41/0946		DELETE
H01L 41/0953		DELETE
H01L 41/096		DELETE
H01L 41/0966		DELETE
H01L 41/0973		DELETE
H01L 41/098		DELETE
H01L 41/0986		DELETE
H01L 41/0993		DELETE
H01L 41/107		DELETE
H01L 41/113		DELETE
H01L 41/1132		DELETE
H01L 41/1134		DELETE
H01L 41/1136		DELETE
H01L 41/1138		DELETE
H01L 41/12		DELETE
H01L 41/125		DELETE
H01L 41/16		DELETE
H01L 41/18		DELETE
H01L 41/183		DELETE
H01L 41/187		DELETE
H01L 41/1871		DELETE
H01L 41/1873		DELETE
H01L 41/1875		DELETE
H01L 41/1876		DELETE
H01L 41/1878		DELETE
H01L 41/193		DELETE
H01L 41/20		DELETE
H01L 41/22		DELETE
H01L 41/23		DELETE
H01L 41/25		DELETE
H01L 41/253		DELETE
H01L 41/257		DELETE
H01L 41/27		DELETE
H01L 41/273		DELETE
H01L 41/277		DELETE
H01L 41/29		DELETE
H01L 41/293		DELETE
H01L 41/297		DELETE
H01L 41/31		DELETE
H01L 41/311		DELETE
H01L 41/312		DELETE
H01L 41/313		DELETE
H01L 41/314		DELETE
H01L 41/316		DELETE

DATE: FEBRUARY 1, 2023

CPC	<u>IPC</u>	Action*
H01L 41/317		DELETE
H01L 41/318		DELETE
H01L 41/319		DELETE
H01L 41/33		DELETE
H01L 41/331		DELETE
H01L 41/332		DELETE
H01L 41/333		DELETE
H01L 41/335		DELETE
H01L 41/337		DELETE
H01L 41/338		DELETE
H01L 41/339		DELETE
H01L 41/35		DELETE
H01L 41/37		DELETE
H01L 41/39		DELETE
H01L 41/41		DELETE
H01L 41/43		DELETE
H01L 41/45		DELETE
H01L 41/47		DELETE
H01L 43/00		DELETE
H01L 43/00 H01L 43/02		DELETE
H01L 43/02 H01L 43/04		DELETE
H01L 43/06		DELETE
H01L 43/065		DELETE
H01L 43/08		DELETE
H01L 43/10		DELETE
H01L 43/12		DELETE
H01L 43/14		DELETE
H01L 45/00		DELETE
H01L 45/005		DELETE
H01L 45/02		DELETE
H01L 45/04		DELETE
H01L 45/06		DELETE
H01L 45/065		DELETE
H01L 45/08		DELETE
H01L 45/085		DELETE
H01L 45/10		DELETE
H01L 45/12		DELETE
H01L 45/1206		DELETE
H01L 45/1213		DELETE
H01L 45/122		DELETE
H01L 45/1226		DELETE
H01L 45/1233		DELETE
H01L 45/124		DELETE
H01L 45/1246		DELETE

DATE: FEBRUARY 1, 2023

CPC	<u>IPC</u>	Action*
H01L 45/1253		DELETE
H01L 45/126		DELETE
H01L 45/1266		DELETE
H01L 45/1273		DELETE
H01L 45/128		DELETE
H01L 45/1286		DELETE
H01L 45/1293		DELETE
H01L 45/14		DELETE
H01L 45/141		DELETE
H01L 45/142		DELETE
H01L 45/143		DELETE
H01L 45/144		DELETE
H01L 45/145		DELETE
H01L 45/146		DELETE
H01L 45/147		DELETE
H01L 45/148		DELETE
H01L 45/149		DELETE
H01L 45/16		DELETE
H01L 45/1608		DELETE
H01L 45/1616		DELETE
H01L 45/1625		DELETE
H01L 45/1623 H01L 45/1633		DELETE
H01L 45/1641		DELETE
H01L 45/165		DELETE
H01L 45/1658		DELETE
H01L 45/1666		DELETE
H01L 45/1675		DELETE
H01L 45/16/3		DELETE
H01L 45/1691 H01L 47/00		DELETE
		DELETE
H01L 47/005		DELETE
H01L 47/02		DELETE
H01L 47/023		DELETE
H01L 47/026		DELETE
H01L 49/00		DELETE
H01L 49/003		DELETE
H01L 49/006		DELETE
H01L 49/02		DELETE
H10N 10/00	H10N 10/00	NEW
H10N 10/01	H10N 10/01	NEW
H10N 10/10	H10N 10/10	NEW
H10N 10/13	H10N 10/13	NEW
H10N 10/17	H10N 10/17	NEW
H10N 10/80	H10N 10/80	NEW

DATE: FEBRUARY 1, 2023

CPC	<u>IPC</u>	Action*
H10N 10/81	H10N 10/81	NEW
H10N 10/813	H10N 10/813	NEW
	H10N 10/813	
H10N 10/817		NEW
H10N 10/82	H10N 10/82	NEW
H10N 10/85	H10N 10/85	NEW
H10N 10/851	H10N 10/851	NEW
H10N 10/852	H10N 10/852	NEW
H10N 10/853	H10N 10/853	NEW
H10N 10/854	H10N 10/854	NEW
H10N 10/855	H10N 10/855	NEW
H10N 10/8552	H10N 10/855	NEW
H10N 10/8556	H10N 10/851	NEW
H10N 10/856	H10N 10/856	NEW
H10N 10/857	H10N 10/857	NEW
H10N 15/00	H10N 15/00	NEW
H10N 15/10	H10N 15/10	NEW
H10N 15/15	H10N 15/10	NEW
H10N 15/20	H10N 15/20	NEW
H10N 19/00	H10N 19/00	NEW
H10N 19/101	H10N 19/00	NEW
H10N 30/00	H10N 30/00	NEW
H10N 30/01	H10N 30/01	NEW
H10N 30/02	H10N 30/02	NEW
H10N 30/03	H10N 30/03	NEW
H10N 30/04	H10N 30/04	NEW
H10N 30/045	H10N 30/045	NEW
H10N 30/05	H10N 30/05	NEW
H10N 30/053	H10N 30/053	NEW
H10N 30/057	H10N 30/057	NEW
H10N 30/06	H10N 30/06	NEW
H10N 30/063	H10N 30/063	NEW
H10N 30/067	H10N 30/067	NEW
H10N 30/07	H10N 30/07	NEW
H10N 30/071	H10N 30/071	NEW
H10N 30/072	H10N 30/072	NEW
H10N 30/073	H10N 30/073	NEW
H10N 30/074	H10N 30/074	NEW
H10N 30/076	H10N 30/076	NEW
H10N 30/077	H10N 30/077	NEW
H10N 30/078	H10N 30/078	NEW
H10N 30/079	H10N 30/079	NEW
H10N 30/08	H10N 30/08	NEW
H10N 30/081	H10N 30/081	NEW
H10N 30/082	H10N 30/082	NEW
111011 30/002	111011 30/002	11211

DATE: FEBRUARY 1, 2023

<u>CPC</u>	<u>IPC</u>	Action*
H10N 30/084	H10N 30/084	NEW
H10N 30/085	H10N 30/085	NEW
H10N 30/086	H10N 30/086	NEW
H10N 30/088	H10N 30/088	NEW
H10N 30/089	H10N 30/089	NEW
H10N 30/089	H10N 30/089	NEW
H10N 30/092	H10N 30/092	NEW
H10N 30/093	H10N 30/092	NEW
H10N 30/095	H10N 30/095	NEW
H10N 30/097	H10N 30/097	NEW
H10N 30/098	H10N 30/098	NEW
H10N 30/058	H10N 30/098	NEW
H10N 30/10513		
	H10N 30/00	NEW NEW
H10N 30/10516 H10N 30/1061	H10N 30/00 H10N 30/00	NEW NEW
	H10N 30/00 H10N 30/00	
H10N 30/1071		NEW
H10N 30/20	H10N 30/20	NEW
H10N 30/202	H10N 30/20	NEW
H10N 30/2023	H10N 30/20	NEW
H10N 30/2027	H10N 30/20	NEW
H10N 30/204	H10N 30/20	NEW
H10N 30/2041	H10N 30/20	NEW
H10N 30/2042	H10N 30/20	NEW
H10N 30/2043	H10N 30/20	NEW
H10N 30/2044	H10N 30/20	NEW
H10N 30/2045	H10N 30/20	NEW
H10N 30/2046	H10N 30/20	NEW
H10N 30/2047	H10N 30/20	NEW
H10N 30/2048	H10N 30/20	NEW
H10N 30/206	H10N 30/20	NEW
H10N 30/208	H10N 30/20	NEW
H10N 30/30	H10N 30/30	NEW
H10N 30/302	H10N 30/30	NEW
H10N 30/304	H10N 30/30	NEW
H10N 30/306	H10N 30/30	NEW
H10N 30/308	H10N 30/30	NEW
H10N 30/40	H10N 30/40	NEW
H10N 30/50	H10N 30/50	NEW
H10N 30/501	H10N 30/50	NEW
H10N 30/503	H10N 30/50	NEW
H10N 30/505	H10N 30/50	NEW
H10N 30/506	H10N 30/50	NEW
H10N 30/508	H10N 30/50	NEW
H10N 30/60	H10N 30/60	NEW

DATE: FEBRUARY 1, 2023

<u>CPC</u>	<u>IPC</u>	Action*
H10N 30/80	H10N 20/90	NEW
H10N 30/802	H10N 30/80 H10N 30/80	
		NEW
H10N 30/804	H10N 30/80	NEW
H10N 30/85	H10N 30/85	NEW
H10N 30/852	H10N 30/85	NEW
H10N 30/853	H10N 30/853	NEW
H10N 30/8536	H10N 30/853	NEW
H10N 30/8542	H10N 30/853	NEW
H10N 30/8548	H10N 30/853	NEW
H10N 30/8554	H10N 30/853	NEW
H10N 30/8561	H10N 30/853	NEW
H10N 30/857	H10N 30/857	NEW
H10N 30/87	H10N 30/87	NEW
H10N 30/871	H10N 30/87	NEW
H10N 30/872	H10N 30/87	NEW
H10N 30/874	H10N 30/87	NEW
H10N 30/875	H10N 30/87	NEW
H10N 30/877	H10N 30/87	NEW
H10N 30/878	H10N 30/87	NEW
H10N 30/88	H10N 30/88	NEW
H10N 30/883	H10N 30/88	NEW
H10N 30/886	H10N 30/88	NEW
H10N 35/00	H10N 35/00	NEW
H10N 35/01	H10N 35/01	NEW
H10N 35/101	H10N 35/00	NEW
H10N 35/80	H10N 35/80	NEW
H10N 35/85	H10N 35/85	NEW
H10N 39/00	H10N 39/00	NEW
H10N 50/00	H10N 50/00	NEW
H10N 50/01	H10N 50/01	NEW
H10N 50/10	H10N 50/10	NEW
H10N 50/20	H10N 50/20	NEW
H10N 50/80	H10N 50/80	NEW
H10N 50/85	H10N 50/85	NEW
H10N 52/00	H10N 52/00	NEW
H10N 52/01	H10N 52/01	NEW
H10N 52/101	H10N 52/00	NEW
H10N 52/80	H10N 52/80	NEW
H10N 52/85	H10N 52/85	NEW
H10N 59/00	H10N 59/00	NEW
H10N 60/00	H10N 60/00	NEW
H10N 60/01	H10N 60/01	NEW
H10N 60/0128	H10N 60/01	NEW
H10N 60/0156	H10N 60/01	NEW
111011 00/0130	111011 00/01	T.A.T. 4.A.

DATE: FEBRUARY 1, 2023

<u>CPC</u>	<u>IPC</u>	Action*
1110N 60/0194	1110N 60/01	NEW
H10N 60/0184 H10N 60/0212	H10N 60/01 H10N 60/01	NEW NEW
H10N 60/0241	H10N 60/01	NEW
H10N 60/0268	H10N 60/01	NEW
H10N 60/0296	H10N 60/01	NEW
H10N 60/0324	H10N 60/01	NEW
H10N 60/0352	H10N 60/01	NEW
H10N 60/0381	H10N 60/01	NEW
H10N 60/0408	H10N 60/01	NEW
H10N 60/0436	H10N 60/01	NEW
H10N 60/0464	H10N 60/01	NEW
H10N 60/0492	H10N 60/01	NEW
H10N 60/0521	H10N 60/01	NEW
H10N 60/0548	H10N 60/01	NEW
H10N 60/0576	H10N 60/01	NEW
H10N 60/0604	H10N 60/01	NEW
H10N 60/0632	H10N 60/01	NEW
H10N 60/0661	H10N 60/01	NEW
H10N 60/0688	H10N 60/01	NEW
H10N 60/0716	H10N 60/01	NEW
H10N 60/0744	H10N 60/01	NEW
H10N 60/0772	H10N 60/01	NEW
H10N 60/0801	H10N 60/01	NEW
H10N 60/0828	H10N 60/01	NEW
H10N 60/0856	H10N 60/01	NEW
H10N 60/0884	H10N 60/01	NEW
H10N 60/0912	H10N 60/01	NEW
H10N 60/0941	H10N 60/01	NEW
H10N 60/10	H10N 60/10	NEW
H10N 60/11	H10N 60/10	NEW
H10N 60/12	H10N 60/12	NEW
H10N 60/124	H10N 60/12	NEW
H10N 60/126	H10N 60/12	NEW
H10N 60/128	H10N 60/10	NEW
H10N 60/20	H10N 60/20	NEW
H10N 60/202	H10N 60/20	NEW
H10N 60/203	H10N 60/20	NEW
H10N 60/205	H10N 60/20	NEW
H10N 60/207	H10N 60/20	NEW
H10N 60/208	H10N 60/20	NEW
H10N 60/30	H10N 60/30	NEW
H10N 60/35	H10N 60/35	NEW
H10N 60/355	H10N 60/355	NEW
H10N 60/80	H10N 60/80	NEW
111011 00/00	111011 00/00	11711

DATE: FEBRUARY 1, 2023

<u>CPC</u>	<u>IPC</u>	Action*
H10N 60/805	H10N 60/80	NEW
H10N 60/803	H10N 60/80	NEW
H10N 60/815	H10N 60/81	NEW
H10N 60/813	H10N 60/82	NEW
H10N 60/83	H10N 60/82	NEW
H10N 60/84	H10N 60/84	NEW
H10N 60/85	H10N 60/85	NEW
H10N 60/851	H10N 60/85	NEW
H10N 60/853	H10N 60/85	NEW
H10N 60/855	H10N 60/85	NEW
H10N 60/857	H10N 60/85	NEW
H10N 60/858	H10N 60/85	NEW
H10N 60/99		
	H10N 60/00 H10N 69/00	NEW
H10N 69/00 H10N 70/00	H10N 69/00 H10N 70/00	NEW
		NEW
H10N 70/011	H10N 70/00	NEW
H10N 70/021	H10N 70/00	NEW
H10N 70/023	H10N 70/00	NEW
H10N 70/026	H10N 70/00	NEW
H10N 70/028	H10N 70/00	NEW
H10N 70/041	H10N 70/00	NEW
H10N 70/043	H10N 70/00	NEW
H10N 70/046	H10N 70/00	NEW
H10N 70/061	H10N 70/00	NEW
H10N 70/063	H10N 70/00	NEW
H10N 70/066	H10N 70/00	NEW
H10N 70/068	H10N 70/00	NEW
H10N 70/10	H10N 70/10	NEW
H10N 70/151	H10N 70/00	NEW
H10N 70/20	H10N 70/20	NEW
H10N 70/231	H10N 70/20	NEW
H10N 70/235	H10N 70/20	NEW
H10N 70/24	H10N 70/20	NEW
H10N 70/245	H10N 70/20	NEW
H10N 70/25	H10N 70/20	NEW
H10N 70/253	H10N 70/20	NEW
H10N 70/257	H10N 70/20	NEW
H10N 70/801	H10N 70/00	NEW
H10N 70/821	H10N 70/00	NEW
H10N 70/823	H10N 70/00	NEW
H10N 70/826	H10N 70/00	NEW
H10N 70/8265	H10N 70/00	NEW
H10N 70/828	H10N 70/00	NEW
H10N 70/841	H10N 70/00	NEW

DATE: FEBRUARY 1, 2023

PROJECT RP11761

CPC	<u>IPC</u>	Action*
H10N 70/8413	H10N 70/00	NEW
H10N 70/8416	H10N 70/00	NEW
H10N 70/8418	H10N 70/00	NEW
H10N 70/861	H10N 70/00	NEW
H10N 70/8613	H10N 70/00	NEW
H10N 70/8616	H10N 70/00	NEW
H10N 70/881	H10N 70/00	NEW
H10N 70/882	H10N 70/00	NEW
H10N 70/8822	H10N 70/00	NEW
H10N 70/8825	H10N 70/00	NEW
H10N 70/8828	H10N 70/00	NEW
H10N 70/883	H10N 70/00	NEW
H10N 70/8833	H10N 70/00	NEW
H10N 70/8836	H10N 70/00	NEW
H10N 70/884	H10N 70/00	NEW
H10N 70/8845	H10N 70/00	NEW
H10N 79/00	H10N 79/00	NEW
H10N 80/00	H10N 80/00	NEW
H10N 80/01	H10N 80/00	NEW
H10N 80/10	H10N 80/10	NEW
H10N 80/103	H10N 80/10	NEW
H10N 80/107	H10N 80/10	NEW
H10N 89/00	H10N 89/00	NEW
H10N 89/02	H10N 89/00	NEW
H10N 97/00	H10N 97/00	NEW
H10N 99/00	H10N 99/00	NEW
H10N 99/03	H10N 99/00	NEW
H10N 99/05	H10N 99/00	NEW

*Action column:

- For an (N) or (Q) entry, provide an IPC symbol and complete the Action column with "NEW."
- For an existing CPC main trunk entry or indexing entry where the existing IPC symbol needs to be changed, provide an updated IPC symbol and complete the Action column with "UPDATED."
- For a (D) CPC entry or indexing entry complete the Action column with "DELETE." IPC symbol does not need to be included in the IPC column.
- For an (N) 2000 series CPC entry which is positioned within the main trunk scheme (breakdown code) provide an IPC symbol and complete the action column with "NEW".
- For an (N) 2000 series CPC entry positioned at the end of the CPC scheme (orthogonal code), with no IPC equivalent, complete the IPC column with "CPCONLY" and complete the action column with "NEW".

NOTES:

- F symbols are <u>not</u> included in the CICL table above.
- T and M symbols are not included in the CICL table above unless a change to the existing IPC is desired.

DATE: FEBRUARY 1, 2023

PROJECT RP11761

5. CROSS-REFERENCE LIST (CRL)

Scheme references impacted by this revision project

Location of reference	Referenced subclass or	Action; New reference symbol; New	
to be changed	group to be changed	<u>text</u>	
B06B1/06	H01L41/00	H10N30/00	
B06B1/08	H01L41/00	H10N30/00	
B23Q1/00	H01L41/09	H10N30/20	
B60H1/00478	H01L35/00	H10N10/00	
B81B	H01L41/00	H10N30/00	
B81B3/0021	H01L41/00	H10N30/00	
B81C	H01L41/22	H10N30/01	
E05B47/0011	H01L41/00	H10N30/00	
F02D41/2096	H01L41/042	H10N30/802	
F16F15/005	H01L41/00	H10N30/00	
G01L1/125	H01L41/125	H10N35/101	
G01L3/102	H01L41/125	H10N35/101	
G01N25/482	H01L35/00	H10N10/00	
G01N25/482	H01L37/00	H10N15/00	
G01R33/0052	H01L43/12	H10N50/85	
G21D7/04	H01L35/00	H10N10/00	
G21D7/04	H01L37/00	H10N15/00	
H01C7/00	H01L39/00	H10N60/00	
H01C7/00	H01L43/00	H10N50/00	
H01C7/00	H01L45/00	H10N70/00	
H01C7/00	H01L47/00	H10N80/00	
H01F	H01L37/00	H10N15/00	
H01F1/0036	H01L43/08	H10N50/10	
H01F1/40	H01L43/00	H10N50/00	
H01F6/003	H01L39/00	H10N60/00	
H01F6/003	H01L39/20	H10N60/355	
H01H33/004	H01L39/20	H10N60/355	
H01L27/01	In groups H01L 27/01 -	Delete the entire NOTE.	
NOTE	H01L 27/26, in the		
	absence of an indication to		
	the contrary,		
	classification is made in		
	the last appropriate		
11011 22/40077	place.	11103150/052	
H01L23/49877	H01L39/123	H10N60/853	
H01L23/53276	H01L39/123	H10N60/853	
H01L29/00	H01L47/00	H01L33/00	
H02H9/044	H01L45/00	H10N70/00	
H02N2/00	H01L41/00	H10N30/00	
H02N15/04	H01L39/00	H10N60/00	
H02S	H01L35/00	H10N10/00	
H02S	H01L37/00	H10N15/00	

DATE: FEBRUARY 1, 2023

PROJECT RP11761

Location of reference	Referenced subclass or	Action; New reference symbol; New
to be changed	group to be changed	<u>text</u>
H02S10/30	H01L35/00	H10N10/00
H03B5/32	H01L41/00	H10N30/00
H03B5/40	H01L41/00	H10N30/00
H03B15/003	H01L39/00	H10N60/00
H03F3/54	H01L45/02	H10N70/10
H03H9/00	H01L41/00	H10N30/00
H04R15/00	H01L41/00	H10N30/00
H04R17/00	H01L41/00	H10N30/00
H04R17/00	H01L41/00	H10N30/00

Definitions references impacted by this revision project

<u>Location of reference</u> <u>to be changed</u>	Referenced subclass or group to be changed	Section of definition	Action; New reference symbol; New text
A45D6/00	H01L41/042	Informative	H10N30/802
		references	
A61B8/00	The preceding image	Relationship (2 nd	Replace: The text
	includes references to	paragraph)	H01L41/00
	A61B 5/00, A61B 8/00,		
	A61B 6/00, G06T, G16H,		with the following
	G06F 18/00, G01S		text:
	15/8906, G01S 7/52017,		
	G01N 29/00, B06B 1/00,		and H10N30/00
	G10K 11/00, H01L 41/00.		
A61H2201/0285	H01L35/28	Informative	H10N10/10
		references	
B06B	H01L41/00	Informative	H10N30/00
		references	
B06B	H01L41/00	Relationship	H10N30/00
B22F	H01L39/12	Application-	H10N60/85
		oriented	
		references	
B22F	H01L35/20	Informative	H10N10/854
		references	
B23Q1/00	H01L41/09	Limiting	H10N30/20
		references	
B25J7/00	H01L41/00	Informative	H10N30/00
		references	
B60C23/00	H01L41/113	Informative	H10N30/30
		references	
B60H1/00478	H01L35/00	Informative	H10N10/00
		references	

DATE: FEBRUARY 1, 2023

Location of reference to be changed	Referenced subclass or group to be changed	Section of definition	Action; New reference symbol; New text
B81B	Piezo-electric devices (includes rotory motors, actuators and sensors using a piezo-electric element) H01L41/00	Informative references	Replace with the following new reference: Piezo-electric devices (includes sensors using a piezo-electric element); Electro active polymer (EAP) actuated artificial muscles H10N30/00
B81B	Electro active polymer (EAP) actuated artificial muscles H01L41/00	Informative references	Replace with the following new reference: Electric machines using piezo-electric effect H02N 2/00
B81C	Piezo-electric devices (includes rotory motors, actuators and sensors using a piezo-electric element) H01L41/00	Informative references	Replace with the following new reference: Piezo-electric devices (includes sensors using a piezo-electric element); Electro active polymer (EAP) actuated artificial muscles H10N30/00
B81C	Electro active polymer (EAP) actuated artificial muscles H01L41/00	Informative references	Replace with the following new reference: Electric machines using piezo-electric effect H02N 2/00
C01G3/006	H01L39/00	Informative references	H10N60/00
C01G23/003	H01L39/00	Informative references	H10N60/00
C01G23/005	H01L39/00	Informative references	H10N60/00

DATE: FEBRUARY 1, 2023

Location of reference to be changed	Referenced subclass or group to be changed	Section of definition	Action; New reference symbol; New text
C01G23/006	H01L39/00	Informative	H10N60/00
C01G23/000	1101237/00	references	11101400/00
C04B35/00	H01L39/00	Informative	H10N60/00
C01B33700	1101237,00	references	11101100700
C04B35/00	H01L41/00	Informative	H10N30/00
20123700	1101211,00	references	11101(30,00
C04B35/45	H01L39/126	Informative	H10N60/857
C0 1233/ 13	1101237,120	references	11101(00)(03)
C04B35/45	H01L39/2419	Informative	H10N60/0268
C0 .BC0, 10	1101203, 2.13	references	11101(00,0200
C04B35/45	H01L39/2419	Informative	H10N60/0268
C0 1233/ 13	11012372117	references	11101(00) 0200
C04B35/46	H01L41/187	Informative	H10N30/853
C0 1 B 337 10	1101211,107	references	11101(30,033
C04B35/472	H01L41/187	Informative	H10N30/853
CO.1200, 1, 2	1101211,107	references	11101(00,000
C04B35/49	H01L41/187	Informative	H10N30/853
C0 .BCC, 13	1101211,107	references	11101(00,000
C04B35/491	H01L41/39	Informative	H10N30/093
C0 .BCC, 131	1101211,09	references	11101(80,058
C04B35/495	H01L41/187	Informative	H10N30/853
30.12007.130	1101211,107	references	11101(00,000
C04B35/58	H01L39/2416	Informative	H10N60/0241
		references	
C04B35/58057	H01L39/141	Informative	H10N60/202
		references	
C04B35/58057	H01L39/226	Informative	H10N60/126
		references	
C04B35/58057	H01L39/2487	Informative	H10N60/0856
		references	
C04B35/62254	H01L39/248	Informative	H10N60/0801
		references	
C04B2235/96	H01L41/00	Special rules	H10N30/00
C09K	H01L41/16	References out	H10N30/85
		of a residual	
		place	
D06F58/206	H01L35/00	Informative	H10N10/00
		references	
F01N5/00	H01L35/00	Informative	H10N10/00
		references	
F02D41/2096	H01L41/042	Informative	H10N30/802
		references	
F02M51/0603	H01L41/00	Limiting	H10N30/00
		references	
F03G7/00	H01L35/28	Informative	H10N10/10
		references	
F03G7/008	H01L41/00	Informative	H10N30/00
		references	

DATE: FEBRUARY 1, 2023

Location of reference to be changed	Referenced subclass or group to be changed	Section of definition	Action; New reference symbol; New text
F03G7/008	H01L47/00	Informative	H10N80/00
10307/000	1101217700	references	11101100700
F03G7/0121	H01L41/00, H01L 41/08	Informative	H10N30/00
10307/0121	1101211/00, 11012 11/00	references	11101(30/00
F03G7/06	H01L35/00	Informative	H10N10/00
10007700	1101255,00	references	11101(10)(00
F03G7/08	H01L41/00	Informative	H10N30/00
10307700	1101211,00	references	11101(30/00
F16K31/004	H01L41/00	Informative	H10N30/00
1101131/001	1101211,00	references	11101(30/00
F23Q3/00	H01L41/08	Informative	H10N30/00
123Q3/00	1101241/00	references	11101(30/00
F24F5/0042	H01L35/00	Informative	H10N10/00
1 241 3/0042	1101233/00	references	11101110/00
F25B21/02	H01L35/00	Informative	H10N10/00
1 23 1 7 0 2	1101233/00	references	11101110/00
F25B21/02	H01L37/00	Informative	H10N15/00
1 2 3 B 2 1 / 0 2	1101L37/00	references	11101\13/00
F28D	H01L35/30		H10N10/13
F28D	H01L55/50	Limiting references	H10IN10/13
C01C10/56	11011 41/00	Informative	H10N20/00
G01C19/56	H01L41/00		H10N30/00
COLLI	11011 41 /00	references	1110120700
G01H	H01L41/00	Informative	H10N30/00
C011	11011 27/00	references	11101110700
G01J	H01L35/00	Informative	H10N10/00
G011	11011 27/00	references	11101115100
G01J	H01L37/00	Informative	H10N15/00
G0477/40	**************************************	references	***************************************
G01J5/12	H01L35/00	Informative	H10N10/00
00177110	770.17.07.10.0	references	77107717100
G01J5/12	H01L37/00	Informative	H10N15/00
00177110	770.17.07.00	references	1
G01J5/12	H01L35/20	Informative	H10N10/854
00177110	77017.07.0	references	77107710107
G01J5/12	H01L35/26	Informative	H10N10/857
		references	
G01J5/12	H01L35/32	Informative	H10N10/17
G047#/00		references	***********
G01J5/20	H01L27/16	Informative	H10N19/00
	77047.27/02	references	**********
G01J5/34	H01L37/02	Informative	H10N15/10
		references	
G01J5/44	H01L41/09	Informative	H10N30/20
		references	
G01K	H01L35/00	Informative	H10N10/00
		references	
G01K	H01L37/00	Informative	H10N15/00
		references	

DATE: FEBRUARY 1, 2023

Location of reference to be changed	Referenced subclass or group to be changed	Section of definition	Action; New reference symbol; New text
G01K7/00	H01L35/28	Informative	H10N10/10
G01K7/00	1101L33/28	references	11101010/10
G01K7/00	H01L37/00	Informative	H10N15/00
G01K7/00	1101237700	references	11101113/00
G01K7/02	H01L35/00	Informative	H10N10/00
30111,7,02	1101255/00	references	11101(10) 00
G01K7/02	H01L37/00	Informative	H10N15/00
301117702	1101257700	references	11101(15),00
G01L1/125	H01L41/12	Informative	H10N35/00
		references	
G01L1/125	H01L41/125	Limiting	H10N35/101
		references	
G01L3/102	H01L41/12	Informative	H10N35/00
		references	
G01L3/102	H01L41/125	Limiting	H10N35/101
		references	
G01N1/00	H01L37/00	Relationship	H10N15/00
G01R	H01L35/00	Informative	H10N10/00
		references	
G01R	H01L37/00	Informative	H10N15/00
		references	
G01R	H01L35/00	Informative	H10N10/00
		references	
G01R	H01L37/00	Informative	H10N15/00
		references	
G01R	H01L43/00	Informative	H10N50/00
		references	
G01R15/202	H01L43/06	Informative	H10N52/00
		references	
G01R21/08	H01L43/06	Informative	H10N52/00
		references	
G01R29/22	H01L41/00	Informative	H10N30/00
		references	
G01R33/035	H01L39/00	Informative	H10N60/00
		references	
G01R33/06	H01L43/00	Informative	H10N50/00
		references	
G04C3/00	H01L41/00	Special rules	H10N30/00
G06F3/016	H01L41/09	Informative	H10N30/20
		references	
G06F3/0433	H01L41/09	Informative	H10N30/20
	77047 2040	references	*********
G06N10/00	H01L39/00	Informative	H10N60/00
	77047 20 100	references	*********
G06N10/40	H01L39/00	Informative	H10N60/00
	77047 44 10 0	references	*********
G08G1/02	H01L41/00	Informative	H10N30/00
		references	

DATE: FEBRUARY 1, 2023

Location of reference to be changed	Referenced subclass or group to be changed	Section of definition	Action; New reference symbol; New text
G08G1/02	H01L41/113	Informative	H10N30/30
00801/02	11011241/113	references	11101\30/30
G09G3/346	H01L41/00	Informative	H10N30/00
00703/340	HOIL41/00	references	11101430/00
G10K	H01L41/00	Informative	H10N30/00
Gior	HOIL41/00	references	11101(30/00
G11B5/00	H01L43/00	Limiting	H10N50/00
G11B3/00	1101243/00	references	11101(30/00
G11B5/00	H01L43/00	Special rules	H10N50/00
G11B5/00 G11B5/127	H01L43/08	Informative	H10N50/10
G11B3/127	1101243/08	references	11101\30/10
G11C	H01L45/00	Informative	H10N70/00
GITE	1101243/00	references	11101170/00
G11C13/00	H01L45/04	Informative	H10N70/20
G11C13/00	IIOILITO/OT	references	111011/0/20
G21D	H01L35/00	Informative	H10N10/00
G21D	1101233700	references	11101110/00
G21D	H01L37/00	Informative	H10N15/00
GZID	1101237/00	references	11101113/00
G21H1/00	H01L35/00	Informative	H10N10/00
G21111/00	1101L33/00	references	11101010/00
G21H1/10	H01L35/00	Informative	H10N10/00
G21H1/10	H01L33/00	references	H10IN10/00
H01B	H01L39/00	Application-	H10N60/00
поть	H01L39/00	oriented	H10IN60/00
		references	
H01B	H01L41/00	Informative	H10N30/00
поть	H01L41/00	references	H10N30/00
H01B1/00	H01L39/00	Informative	H10N60/00
ПОТВ1/00	H01L39/00	references	H10N00/00
H01B3/00	H01L41/00	Informative	H10N30/00
П01В3/00	H01L41/00	references	H10IN30/00
H01B12/00	H01L39/12	Informative	H10N60/85
ПОТВ12/00	H01L39/12		H10N00/83
H01B12/00	H01L39/248	references Informative	H10N60/0801
ПОТВ12/00	H01L39/248	references	H10N00/0801
H01C	H01L39/00	Informative	H10N60/00
Hore	1101L39/00	references	1110100/00
H01C	H01L45/00	Informative	H10N70/00
11010	11011.43/00	references	111011/0/00
H01C	H01L49/02	Informative	H10N97/00
11010	11011.49/02	references	1110119//00
H01C	H01L47/00		H10N80/00
11010	11011.47/00	Limiting references	11101100/00
H01C	11011 42/09		1110N50/10
H01C	H01L43/08	Limiting	H10N50/10
H01C7/00	11011 20/00	references	1110N/c0/00
H01C7/00	H01L39/00	Informative	H10N60/00
		references	

DATE: FEBRUARY 1, 2023

Location of reference	Referenced subclass or	Section of	Action; New
to be changed	group to be changed	<u>definition</u>	reference symbol;
			New text
H01C7/00	H01L45/00	Informative	H10N70/00
1101 07 100	11011 12/00	references	11107150/00
H01C7/00	H01L43/00	Limiting	H10N50/00
1101 07 100	11011 47/00	references	11107100/00
H01C7/00	H01L47/00	Limiting	H10N80/00
HOLE	11011 27/00	references	11103117/00
H01F	H01L37/00	Informative	H10N15/00
HOLE	H01L41/12	references Informative	H10N35/00
H01F	H01L41/12	references	H10N35/00
H01F	H01L43/00	Informative	H10N50/00
потг	H01L43/00	references	H10N30/00
H01F6/00	H01L39/00		H10N60/00
H01F0/00	H01L39/00	Limiting references	H10N60/00
H01F6/00	H01L39/16	Limiting	H10N60/30
11011-0/00	1101L39/10	references	1110100/30
H01F7/00	H01L41/12	Informative	H10N35/00
11011-7/00	1101L41/12	references	11101\\33/00
H01F10/00	H01L43/00	Informative	H10N50/00
11011-10/00	1101L43/00	references	1110N30/00
H01F10/00	H01L43/10	Informative	H10N50/85
11011-10/00	1101L43/10	references	11101\30/83
H01F10/324	H01L41/12	Informative	H10N35/00
11011 10/324	1101241/12	references	11101\\33/00
H01F10/324	H01L41/20	Informative	H10N35/85
11011 10/324	1101241/20	references	11101\33/63
H01F17/00	H01L49/02	Informative	H10N97/00
11011 17700	1101219/02	references	11101(57/00
H01G	H01L49/02	Application-	H10N97/00
11010	1101219702	oriented	11101(97,00
		references	
H01J45/00	H01L35/00	Limiting	H10N10/00
		references	
H01J45/00	H01L37/00	Limiting	H10N15/00
		references	
H01L21/77	H01L27/16	Informative	H10N19/00
		references	
H01L21/77	H01L27/18	Informative	H10N69/00
		references	
H01L21/77	H01L27/20	Informative	H10N39/00
		references	
H01L21/77	H01L27/26	Informative	H10N89/00
		references	
H01L23/00	H01L35/00	Limiting	H10N10/00
		references	
H01L23/00	H01L37/00	Limiting	H10N15/00
		references	
H01L23/00	H01L39/00	Limiting	H10N60/00
		references	

DATE: FEBRUARY 1, 2023

Location of reference to be changed	Referenced subclass or group to be changed	Section of definition	Action; New reference symbol; New text
H01L23/00	H01L41/00	Limiting references	H10N30/00
H01L23/00	H01L43/00	Limiting references	H10N50/00
H01L23/00	H01L45/00	Limiting references	H10N70/00
H01L23/00	H01L47/00	Limiting references	H10N80/00
H01L23/00	H01L47/00	Limiting references	H10N80/00
H01L23/00	Details peculiar to solid state devices not provided for in groups H01L 27/00 - H01L 47/00 and H01L 51/00 and not provided for in any other subclass	Limiting references	Replace with the following text: Details peculiar to solid state devices not provided for in groups H01L 27/00 – H01L 33/00, H10B 10/00 – H10B 53/00, H10B 69/00, H10K 10/00, H10K 30/00, H10K 50/00, H10K 71/00, H10K 77/00, H10K 85/00 and H10K 99/00 and not provided for in any other subclass
H01L23/00 H01L23/49877	H01L49/00 H01L39/123	Limiting references Informative	H10N99/00 H10N60/853
H01L23/53276	H01L39/123	references Informative references	H10N60/853
H01L24/00	H01L35/00	Limiting references	H10N10/00
H01L24/00	H01L37/00	Limiting references	H10N15/00
H01L24/00	H01L39/00	Limiting references	H10N60/00
H01L24/00	H01L41/00	Limiting references	H10N30/00
H01L24/00	H01L43/00	Limiting references	H10N50/00
H01L24/00	H01L45/00	Limiting references	H10N70/00
H01L24/00	H01L47/00	Limiting references	H10N80/00
H01L24/00	H01L47/00	Limiting references	H10N80/00

DATE: FEBRUARY 1, 2023

Location of reference	Referenced subclass or	Section of	Action; New
to be changed	group to be changed	definition	reference symbol; New text
H01L24/00	Details peculiar to solid state devices not provided for in groups H01L 27/00 - H01L 47/00 and H01L 51/00 and not provided for in any other subclass	Limiting references	Replace with the following text: Details peculiar to solid state devices not provided for in groups H01L 27/00 – H01L 33/00, H10B 10/00 – H10B 53/00, H10B 69/00, H10K 10/00, H10K 30/00, H10K 50/00, H10K 71/00, H10K 77/00, H10K 85/00 and H10K 99/00 and not provided for in any other subclass
H01L24/00	H01L49/00	Limiting references	H10N99/00
H01L29/00	H01L35/00	Limiting references	H10N10/00
H01L29/00	H01L37/00	Limiting references	H10N15/00
H01L29/00	H01L39/00	Limiting references	H10N60/00
H01L29/00	H01L41/00	Limiting references	H10N30/00
H01L29/00	H01L43/00	Limiting references	H10N50/00
H01L29/00	H01L45/00	Limiting references	H10N70/00
H01L29/00	H01L47/00	Limiting references	H10N80/00
H01L29/00	H01L47/00	Limiting references	H10N80/00

DATE: FEBRUARY 1, 2023

Location of reference to be changed	Referenced subclass or group to be changed	Section of definition	Action; New reference symbol; New text
H01L29/00	Solid state devices not provided for in groups H01L 27/00 - H01L 47/00 and H01L 51/00 and not provided for in any other subclass; Processes or apparatus peculiar to the manufacture or treatment thereof or of parts thereof	Limiting references	Replace with the following text: Details peculiar to solid state devices not provided for in groups H01L 27/00 – H01L 33/00, H10B 10/00 – H10B 53/00, H10B 69/00, H10K 10/00, H10K 30/00, H10K 50/00, H10K 71/00, H10K 77/00, H10K 85/00 and H10K 99/00 and not provided for in any other subclass
H01L29/00	H01L49/00	Limiting references	H10N99/00
H01L29/00	Details of semiconductor bodies or of electrodes of semiconductor components H01L31/00 - H01L47/00, H01S5/00, G01	References out of a residual place	Details of semiconductor bodies or of electrodes of semiconductor components H01L31/00 - H01L33/00, H10N10/00, H10N15/00, H10N35/00, H10N50/00, H10N52/00, H10N60/00, H10N70/00, H10N80/00, H01S5/00, G01
H01L31/052	H01L35/28	Informative references	H10N10/10
H01L33/645	H01L27/16	Informative references	H10N19/00
H01L33/645	H01L35/00	Informative references	H10N10/00
H01L33/645	H01L37/00	Informative references	H10N15/00
H01M	H01L35/00	Informative references	H10N10/00
H01M	H01L37/00	Informative references	H10N15/00

DATE: FEBRUARY 1, 2023

Location of reference to be changed	Referenced subclass or group to be changed	Section of definition	Action; New reference symbol;
II01N/C/00	11011 25/00	T.C.	New text
H01M6/00	H01L35/00	Informative	H10N10/00
H01MC/2C	11011 25/00	references	H10N10/00
H01M6/36	H01L35/00	Informative	H10N10/00
H01Mc/26	11011 27/00	references	1110N15/00
H01M6/36	H01L37/00	Informative	H10N15/00
1101110/00	11011 25/00	references	11101110/00
H01M8/00	H01L35/00	Informative	H10N10/00
H01M9/00	H01L37/00	references	1110N15/00
H01M8/00	H01L37/00	Informative	H10N15/00
1102110/00	11011 20/16 11015/00	references	11101160/20
H02H9/00	H01L39/16, H01F/00	Informative	H10N60/30,
YY02) (11 1 /02	11011 41 /00	references	H01F6/00
H02M11/00	H01L41/00	Informative	H10N30/00
1102112/00	11011 41 /00	references	11101120/00
H02N2/00	H01L41/00	Definition	H10N30/00
**********	77017 11 10 0	statement	***********
H02N2/00	H01L41/00	Definition	H10N30/00
		statement	
H02N2/00	H01L41/00	Definition	H10N30/00
		statement	
H02N2/00	H01L41/00	Informative	H10N30/00
		references	
H02N10/00	H01L37/00	Limiting	H10N15/00
		references	
H02N10/00	H01L37/04	Limiting	H10N15/20
		references	
H02N11/002	H01L35/00	Limiting	H10N10/00
		references	
H02N11/002	H01L37/00	Limiting	H10N15/00
		references	
H02N11/002	H01L37/04	Limiting	H10N15/20
		references	
H02N15/04	H01L39/00	Informative	H10N60/00
		references	
H02S	H01L35/00	Limiting	H10N10/00
		references	
H02S	H01L37/00	Limiting	H10N15/00
		references	
H02S10/30	H01L35/00	Limiting	H10N10/00
		references	
H03B5/32	H01L41/00	Informative	H10N30/00
		references	
H03B5/40	H01L41/00	Informative	H10N30/00
		references	
H03B15/00	H01L43/00	Informative	H10N50/00
		references	
H03F3/54	H01L45/02	Application-	H10N70/10
		oriented	
		references	

DATE: FEBRUARY 1, 2023

PROJECT RP11761

Location of reference to be changed	Referenced subclass or group to be changed	Section of definition	Action; New reference symbol;
			New text
H03H3/00	H01L41/00	Limiting references	H10N30/00
H03H9/00	H01L41/00	Limiting	H10N30/00
П03П9/00	H01L41/00	references	H10N30/00
H04N5/40	H01L27/20	Informative	H10N39/00
1104113/40	1101127/20	references	11101137/00
H04R15/00	H01L41/00	Informative	H10N30/00
		references	
H04R15/00	H01L41/06	Informative	H10N35/80
		references	
H04R15/00	H01L41/12	Informative	H10N35/00
		references	
H04R15/00	H01L41/20	Informative	H10N35/85
		references	
H04R17/00	Piezo-electric or	Informative	H10N30/00
	electrostrictive elements in	references	
	general		
	H01L41/00		
H04R17/00	Details of piezo-electric or	Informative	<u>Delete</u> the entire
	electrostrictive motors,	references	reference.
	generators or positioners H01L41/00		
H04R17/00	H01L41/04	Informative	H10N30/80
		references	
H04R17/00	H01L41/08	Informative	H10N30/00
		references	
H04R17/00	H01L41/16	Informative	H10N30/85
		references	
H04R17/00	H01L41/22	Informative	H10N30/01
		references	
H04R17/005	H01L41/193	Informative	H10N30/857
		references	
H04R17/02	H01L41/113	Informative	H10N30/30
H04D17/005	11011 41/102	references	1110N20/055
H04R17/025	H01L41/193	Informative	H10N30/857
11051/1/00	11011 25/00	references	II10N110/00
H05K1/00	H01L35/00	Informative	H10N10/00
11051/1/00	11011 41/00	references	II10N20/00
H05K1/00	H01L41/00	Informative	H10N30/00
11051/0/0077	11011 20/00	references	1110N60/00
H05K9/0077	H01L39/00	Informative	H10N60/00
		references	

NOTES:

• The CRL tables above are used for changes to locations <u>outside</u> of the project scope. Changes to references in scheme titles or definitions <u>inside</u> the project scope will be reflected in the "scheme change" template or one of the "definition" templates.

DATE: FEBRUARY 1, 2023

- In addition to other changes proposed in the tables above, in the column titled "Referenced subclass or group to be changed," referenced D symbols should indicate an action of "delete" or should indicate a replacement symbol and referenced F symbols should indicate a replacement symbol.
- When a reference is deleted, text related to that reference will also be deleted unless other references or a range of references associated with the same text remain.