

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1413

DATE: FEBRUARY 1, 2023

PROJECT RP11801

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Symbols Deleted:	H01L	27/28, 27/281, 27/283, 27/285, 27/286, 27/288, 27/30, 27/301, 27/302, 27/304, 27/305, 27/307, 27/308, 27/32, 27/3202, 27/3204, 27/3206, 27/3209, 27/3211, 27/3213, 27/3216, 27/3218, 27/322, 27/3223, 27/3225, 27/3227, 27/323, 27/3232, 27/3234, 27/3237, 27/3239, 27/3241, 27/3244, 27/3246, 27/3248, 27/3251, 27/3253, 27/3255, 27/3258, 27/326, 27/3262, 27/3265, 27/3267, 27/3269, 27/3272, 27/3274, 27/3276, 27/3279, 27/3281, 27/3283, 27/3286, 27/3288, 27/329, 27/3293

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<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
	H01L	51/00, 51/0001, 51/0002, 51/0003, 51/0004, 51/0005, 51/0006, 51/0007, 51/0008, 51/0009, 51/001, 51/0011, 51/0012, 51/0013, 51/0014, 51/0015, 51/0016, 51/0017, 51/0018, 51/0019, 51/002, 51/0021, 51/0022, 51/0023, 51/0024, 51/0025, 51/0026, 51/0027, 51/0028, 51/0029, 51/003, 51/0031, 51/0032, 51/0034, 51/0035, 51/0036, 51/0037, 51/0038, 51/0039, 51/004, 51/0041, 51/0042, 51/0043, 51/0044, 51/0045, 51/0046, 51/0047, 51/0048, 51/0049, 51/005, 51/0051, 51/0052, 51/0053, 51/0054, 51/0055, 51/0056, 51/0057, 51/0058, 51/0059, 51/006, 51/0061, 51/0062, 51/0064, 51/0065, 51/0067, 51/0068, 51/0069, 51/007, 51/0071, 51/0072, 51/0073, 51/0074, 51/0075, 51/0076, 51/0077, 51/0078, 51/0079, 51/008, 51/0081, 51/0082, 51/0083, 51/0084, 51/0085, 51/0086, 51/0087, 51/0088, 51/0089, 51/009, 51/0091, 51/0092, 51/0093, 51/0094, 51/0095, 51/0096, 51/0097, 51/0098, 51/05, 51/0504, 51/0508, 51/0512, 51/0516, 51/052, 51/0525, 51/0529, 51/0533, 51/0537, 51/0541, 51/0545, 51/055, 51/0554, 51/0558, 51/0562, 51/0566, 51/057, 51/0575, 51/0579, 51/0583, 51/0587, 51/0591, 51/0595, 51/10, 51/102, 51/105, 51/107, 51/42, 51/4206, 51/4213, 51/422, 51/4226, 51/4233, 51/424, 51/4246, 51/4253, 51/426, 51/4266, 51/4273, 51/428, 51/4286, 51/4293, 51/44, 51/441, 51/442, 51/444, 51/445, 51/447, 51/448, 51/50, 51/5004, 51/5008, 51/5012, 51/5016, 51/502, 51/5024, 51/5028, 51/5032, 51/5036, 51/504, 51/5044, 51/5048, 51/5056, 51/506, 51/5064, 51/5068, 51/5072, 51/5076, 51/508, 51/5084, 51/5088, 51/5092, 51/5096, 51/52, 51/5203, 51/5206, 51/5209, 51/5212, 51/5215, 51/5218, 51/5221, 51/5225, 51/5228, 51/5231, 51/5234, 51/5237, 51/524, 51/5243, 51/5246, 51/525, 51/5253, 51/5256, 51/5259, 51/5262, 51/5265, 51/5268, 51/5271, 51/5275, 51/5278, 51/5281, 51/5284, 51/5287, 51/529, 51/5293, 51/5296, 51/56
	H01L	2227/00, 2227/32, 2227/323, 2227/326

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	H01L	2251/00, 2251/10, 2251/105, 2251/30, 2251/301, 2251/303, 2251/305, 2251/306, 2251/308, 2251/50, 2251/53, 2251/5307, 2251/5315, 2251/5323, 2251/533, 2251/5338, 2251/5346, 2251/5353, 2251/5361, 2251/5369, 2251/5376, 2251/5384, 2251/5392, 2251/55, 2251/552, 2251/554, 2251/556, 2251/558, 2251/56, 2251/562, 2251/564, 2251/566, 2251/568
Symbols New:	H10K	Subclass
	H10K	10/00, 10/10, 10/20, 10/23, 10/26, 10/29, 10/40, 10/43, 10/46, 10/462, 10/464, 10/466, 10/468, 10/471, 10/472, 10/474, 10/476, 10/478, 10/481, 10/482, 10/484, 10/486, 10/488, 10/491, 10/50, 10/701, 10/80, 10/82, 10/84, 10/86, 10/88
	H10K	19/00, 19/10, 19/20, 19/201, 19/202, 19/80, 19/901
	H10K	30/00, 30/10, 30/15, 30/151, 30/152, 30/20, 30/211, 30/30, 30/35, 30/352, 30/353, 30/354, 30/40, 30/451, 30/50, 30/53, 30/57, 30/60, 30/65, 30/671, 30/80, 30/81, 30/82, 30/821, 30/83, 30/84, 30/85, 30/86, 30/865, 30/87, 30/88, 30/89
	H10K	39/00, 39/10, 39/12, 39/15, 39/18, 39/30, 39/32, 39/34, 39/36, 39/38, 39/401, 39/501, 39/601, 39/621
	H10K	50/00, 50/10, 50/11, 50/115, 50/12, 50/121, 50/125, 50/13, 50/131, 50/135, 50/14, 50/15, 50/155, 50/156, 50/157, 50/16, 50/165, 50/166, 50/167, 50/17, 50/171, 50/18, 50/181, 50/182, 50/19, 50/30, 50/401, 50/80, 50/805, 50/81, 50/813, 50/814, 50/816, 50/818, 50/82, 50/822, 50/824, 50/826, 50/828, 50/84, 50/841, 50/842, 50/8423, 50/8426, 50/8428, 50/844, 50/8445, 50/846, 50/85, 50/852, 50/854, 50/856, 50/858, 50/86, 50/865, 50/868, 50/87, 50/88

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<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
	H10K	59/00, 59/10, 59/12, 59/1201, 59/121, 59/1213, 59/1216, 59/122, 59/123, 59/124, 59/125, 59/126, 59/127, 59/1275, 59/128, 59/129, 59/13, 59/131, 59/1315, 59/17, 59/173, 59/176, 59/179, 59/1795, 59/18, 59/19, 59/221, 59/30, 59/32, 59/35, 59/351, 59/352, 59/353, 59/38, 59/40, 59/50, 59/60, 59/65, 59/70, 59/751, 59/771, 59/80, 59/805, 59/8051, 59/80515, 59/80516, 59/80517, 59/80518, 59/8052, 59/80521, 59/80522, 59/80523, 59/80524, 59/82, 59/84, 59/86, 59/87, 59/871, 59/872, 59/8721, 59/8722, 59/8723, 59/873, 59/8731, 59/874, 59/875, 59/876, 59/877, 59/878, 59/879, 59/8791, 59/8792, 59/8793, 59/8794, 59/88, 59/90, 59/95
	H10K	65/00
	H10K	71/00, 71/10, 71/12, 71/125, 71/13, 71/135, 71/15, 71/16, 71/162, 71/164, 71/166, 71/18, 71/191, 71/20, 71/211, 71/221, 71/231, 71/233, 71/236, 71/30, 71/311, 71/40, 71/421, 71/441, 71/50, 71/60, 71/611, 71/621, 71/70, 71/80, 71/811, 71/821, 71/831, 71/841, 71/851, 71/861
	H10K	77/00, 77/10, 77/111
	H10K	85/00, 85/10, 85/111, 85/113, 85/1135, 85/114, 85/115, 85/141, 85/143, 85/146, 85/151, 85/154, 85/20, 85/211, 85/215, 85/221, 85/225, 85/30, 85/311, 85/321, 85/322, 85/324, 85/326, 85/331, 85/341, 85/342, 85/344, 85/346, 85/348, 85/351, 85/361, 85/371, 85/381, 85/40, 85/50, 85/60, 85/611, 85/615, 85/621, 85/622, 85/623, 85/624, 85/625, 85/626, 85/631, 85/633, 85/636, 85/649, 85/652, 85/653, 85/654, 85/655, 85/656, 85/6565, 85/657, 85/6572, 85/6574, 85/6576, 85/658, 85/701, 85/731, 85/761, 85/791
	H10K	99/00
	H10K	2101/00, 2101/10, 2101/20, 2101/25, 2101/27, 2101/30, 2101/40, 2101/50, 2101/60, 2101/70, 2101/80, 2101/90
	H10K	2102/00, 2102/10, 2102/101, 2102/102, 2102/103, 2102/20, 2102/301, 2102/302, 2102/3023, 2102/3026, 2102/3031, 2102/3035, 2102/311, 2102/321, 2102/331, 2102/341, 2102/351, 2102/361
Warnings New:	H10K	10/00, 10/10, 10/40, 10/80, 10/82, 10/86
	H10K	19/00, 19/201, 19/202, 19/80

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	H10K	30/00, 30/10, 30/15, 30/151, 30/152, 30/20, 30/211, 30/30, 30/35, 30/352, 30/353, 30/354, 30/40, 30/451, 30/50, 30/60 30/671, 30/80, 30/84, 30/89
	H10K	39/10, 39/12, 39/15, 39/18, 39/30, 39/34, 39/38, 39/401, 39/501, 39/601, 39/621
	H10K	50/00, 50/10, 50/17, 50/171, 50/18, 50/181, 50/401, 50/80, 50/805, 50/81, 50/813, 50/814, 50/816, 50/818, 50/82, 50/822, 50/824, 50/826, 50/828, 50/84, 50/841, 50/842, 50/8423, 50/8426, 50/8428, 50/844, 50/8445, 50/846, 50/85, 50/852, 50/854, 50/856, 50/858, 50/86, 50/865, 50/868, 50/87, 50/88
	H10K	59/00, 59/10, 59/12, 59/131, 59/1315, 59/17, 59/179, 59/1795, 59/19, 59/65, 59/70, 59/751, 59/771, 59/80, 59/805, 59/8051, 59/80515, 59/80516, 59/80517, 59/80518, 59/8052, 59/80521, 59/80522, 59/80523, 59/80524, 59/82, 59/84, 59/86, 59/87, 59/871, 59/8721, 59/8722, 59/8723, 59/873, 59/8731, 59/874, 59/875, 59/876, 59/877, 59/878, 59/879, 59/8791, 59/8792, 59/8793, 59/8794, 59/88, 59/90, 59/95
	H10K	65/00
	H10K	71/00, 71/40
	H10K	77/00
	H10K	85/00, 85/322, 85/50, 85/658
	H10K	99/00
	H10K	2101/00, 2101/20, 2101/60, 2101/70
	H10K	2102/00
Notes Deleted:	H01L	51/0032
Notes New:	H10K	Subclass
	H10K	30/00
	H10K	39/00
	H10K	85/00
Guidance Headings New:	H10K	10/00
	H10K	30/00
	H10K	50/00
	H10K	71/00
	H10K	2101/00
	H10K	2102/00
DEFINITIONS:		
Definitions Deleted: (no frozen (F) symbol definitions should be deleted)		

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	H01L	27/28, 27/281, 27/283, 27/285, 27/286, 27/288, 27/30, 27/301, 27/302, 27/304, 27/305, 27/307, 27/308, 27/32, 27/3202, 27/3204, 27/3206, 27/3209, 27/3211, 27/3213, 27/3216, 27/3218, 27/322, 27/3223, 27/3225, 27/3227, 27/323, 27/3232, 27/3234, 27/3237, 27/3239, 27/3241, 27/3244, 27/3246, 27/3248, 27/3251, 27/3253, 27/3255, 27/3258, 27/326, 27/3262, 27/3265, 27/3267, 27/3269, 27/3272, 27/3274, 27/3276, 27/3279, 27/3281, 27/3283, 27/3286, 27/3288, 27/329, 27/3293
	H01L	51/00, 51/0001, 51/0004, 51/0005, 51/0006, 51/0008, 51/0009, 51/0011, 51/0013, 51/0018, 51/002, 51/0022, 51/0024, 51/0027, 51/0029, 51/003, 51/0032, 51/0035, 51/0036, 51/0038, 51/0041, 51/0045, 51/0047, 51/005, 51/0059, 51/0062, 51/0064, 51/0067, 51/0069, 51/0075, 51/0076, 51/0078, 51/009, 51/0094, 51/0096, 51/05, 51/0541, 51/0545, 51/0554, 51/057, 51/0591, 51/0595, 51/10, 51/42, 51/4206, 51/4213, 51/422, 51/4226, 51/424, 51/4246, 51/4253, 51/4273, 51/428, 51/445, 51/447, 51/448, 51/50, 51/5004, 51/5008, 51/5012, 51/5016, 51/502, 51/5024, 51/5028, 51/5032, 51/5036, 51/504, 51/5044, 51/5048, 51/5056, 51/506, 51/5064, 51/5068, 51/5072, 51/5076, 51/508, 51/5084, 51/5088, 51/5092, 51/5096, 51/52, 51/5203, 51/5206, 51/5209, 51/5212, 51/5215, 51/5218, 51/5221, 51/5225, 51/5228, 51/5231, 51/5234, 51/5237, 51/524, 51/5243, 51/5246, 51/525, 51/5253, 51/5256, 51/5259, 51/5262, 51/5265, 51/5268, 51/5271, 51/5275, 51/5278, 51/5281, 51/5284, 51/5287, 51/529, 51/5293, 51/5296, 51/56

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):

B41M, C03C, C04B, C07C, C07D, C07F, C08G, C08L, C09B, C09D, C23C, F21K, F21L, F21S, F21V, G01J, G02B, G03F, G06F, G09F, G09G, H01G, H01J, H01L (Subclass), H01L21/00, H01L21/02365, H01L21/02606, H01L21/02601, H01L21/02606, H01L21/0405, H01L21/64, H01L 21/77, H01L 23/00, H01L 24/00, H01L25/00, H01L27/00, H01L27/12, H01L27/144, H01L27/146, H01L27/15, H01L29/0669, H01L29/24, H01L29/413, H01L31/00, H01L31/0203, H01L31/0216, H01L31/0224, H01L31/022466, H01L31/0256, H01L31/0264, H01L31/0352, H01L31/035227, H01L31/04, H01L31/048, H01L31/12, H01L31/1884, H01L33/00, H01L33/48, H01L33/483, H01L33/483, H01L33/50, H01L33/52, H01L33/58, H01L33/60, H01M, H01S, H02S, H05B, H05K

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

1. CLASSIFICATION SCHEME CHANGES

- A. New, Modified or Deleted Group(s)
- B. New, Modified or Deleted Warning(s)
- C. New, Modified or Deleted Note(s)
- D. New, Modified or Deleted Guidance Heading(s)

2. DEFINITIONS

- A. New or Modified Definitions (Full definition template)
- B. Modified or Deleted Definitions (Definitions Quick Fix)

3. REVISION CONCORDANCE LIST (RCL)

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

5. CHANGES TO THE CROSS-REFERENCE LIST (CRL)

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1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS H01L - SEMICONDUCTOR DEVICES;ELECTRIC SOLID STATE DEVICES NOT OTHERWISE PROVIDED FOR (use of semiconductor devices for measuring G01; resistors in general H01C; magnets, inductors, transformers H01F; capacitors in general H01G; electrolytic devices H01G 9/00; batteries, accumulators H01M; waveguides, resonators, or lines of the waveguide type H01P; line connectors, current collectors H01R; stimulated-emission devices H01S; electromechanical resonators H03H; loudspeakers, microphones, gramophone pick-ups or like acoustic electromechanical transducers H04R; electric light sources in general H05B; printed circuits, hybrid circuits, casings or constructional details of electrical apparatus, manufacture of assemblages of electrical components H05K; use of semiconductor devices in circuits having a particular application, see the subclass for the application)

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
D	H01L 27/28	1	including components using organic materials as the active part, or using a combination of organic materials with other materials as the active part	<administrative transfer to H10K 19/00>
D	H01L 27/281	2	{Integrated circuits having a three-dimensional layout}	<administrative transfer to H10K 19/201>
D	H01L 27/283	2	{comprising components of the field-effect type}	<administrative transfer to H10K 19/10>
D	H01L 27/285	2	{Integrated circuits with a common active layer, e.g. cross point devices}	<administrative transfer to H10K 19/202>
D	H01L 27/286	2	{with an active region comprising an inorganic semiconductor}	<administrative transfer to H10K 19/20>
D	H01L 27/288	2	{Combination of organic light sensitive components with organic light emitting components, e.g. optocoupler}	<administrative transfer to H10K65/00>
D	H01L 27/30	2	with components specially adapted for sensing infrared radiation, light, electromagnetic radiation of shorter wavelength, or corpuscular radiation; with components specially adapted for either the conversion of the energy of such radiation into electrical energy or for the control of electrical energy by such radiation {(combination of organic light sensitive components with organic light emitting components, e.g. optocoupler H01L 27/288)}	<administrative transfer to H10K 39/00>

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D	H01L 27/301	3	{Energy conversion devices}	<administrative transfer to H10K 39/10>
D	H01L 27/302	4	{comprising multiple junctions, e.g. tandem cells}	<administrative transfer to H10K 30/57>
D	H01L 27/304	4	{in form of a fiber or a tube, e.g. photovoltaic fibers}	<administrative transfer to H10K 30/53>
D	H01L 27/305	3	{Devices controlled by radiation}	<administrative transfer to H10K 39/30>
D	H01L 27/307	4	{Imager structures}	<administrative transfer to H10K 39/32>
D	H01L 27/308	4	{Devices specially adapted for detecting X-ray radiation (measuring X-radiation G01T1/00)}	<administrative transfer to H10K 39/36>
D	H01L 27/32	2	with components specially adapted for light emission, e.g. flat-panel displays using organic light-emitting diodes [OLED] {(combination of organic light sensitive components with organic light emitting components, e.g. optocoupler H01L 27/288)}	<administrative transfer to H10K 59/00>
D	H01L 27/3202	3	{OLEDs electrically connected in parallel}	<administrative transfer to H10K 59/84>
D	H01L 27/3204	3	{OLEDs electrically connected in series}	<administrative transfer to H10K 59/86>
D	H01L 27/3206	3	{Multi-colour light emission}	<administrative transfer to H10K 59/30>
D	H01L 27/3209	4	{using stacked OLED}	<administrative transfer to H10K 59/32>
D	H01L 27/3211	4	{using RGB sub-pixels}	<administrative transfer to H10K 59/35>
D	H01L 27/3213	5	{using more than three sub-pixels, e.g. RGBW}	<administrative transfer to H10K 59/351>
D	H01L 27/3216	5	{the areas of RGB sub-pixels being different}	<administrative transfer to H10K 59/352>
D	H01L 27/3218	5	{characterised by the geometrical arrangement of the RGB sub-pixels}	<administrative transfer to H10K 59/353>
D	H01L 27/322	4	{using colour filters or colour changing media [CCM]}	<administrative transfer to H10K 59/38>

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D	H01L 27/3223	3	{combined with dummy elements, i.e. non-functional features}	<administrative transfer to H10K 59/88>
D	H01L 27/3225	3	{OLED integrated with another component (H01L 27/3223 takes precedence)}	<administrative transfer to H10K 59/00>
D	H01L 27/3227	4	{the other component being a light sensitive element, e.g. inorganic solar cell, inorganic photodiode (H01L 27/288 takes precedence)}	<administrative transfer to H10K 59/60>
D	H01L 27/323	4	{the other component being a touch screen}	<administrative transfer to H10K 59/40>
D	H01L 27/3232	4	{the other component being a light modulating element, e.g. electrochromic element, photochromic element, liquid crystal element}	<administrative transfer to H10K 59/50>
D	H01L 27/3234	4	{the other component being an imager structure (H01L 27/146 takes precedence)}	<administrative transfer to H10K 59/65>
D	H01L 27/3237	3	{Displays not provided for in group H01L 27/3241 and subgroups, e.g. segment-type displays}	<administrative transfer to H10K 59/10>
D	H01L 27/3239	4	{Light emitting logos}	<administrative transfer to H10K 59/221>
D	H01L 27/3241	3	{Matrix-type displays}	<administrative transfer to H10K 59/10>
D	H01L 27/3244	4	{Active matrix displays}	<administrative transfer to H10K 59/12>
D	H01L 27/3246	5	{Pixel defining structures, e.g. banks}	<administrative transfer to H10K 59/122>
D	H01L 27/3248	5	{Connection of the pixel electrode to the TFT}	<administrative transfer to H10K 59/123>
D	H01L 27/3251	5	{Double substrate, i.e. with OLED and TFT on different substrates}	<administrative transfer to H10K 59/127>
D	H01L 27/3253	6	{Electrical connection of the two substrates}	<administrative transfer to H10K 59/1275>
D	H01L 27/3255	5	{Chiplets}	<administrative transfer to H10K 59/129>
D	H01L 27/3258	5	{Insulating layers formed between TFT elements and OLED elements}	<administrative transfer to H10K 59/124>
D	H01L 27/326	5	{special geometry or disposition of pixel-elements}	<administrative transfer to H10K 59/121>

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D	H01L 27/3262	6	{of TFT}	<administrative transfer to H10K 59/1213>
D	H01L 27/3265	6	{of capacitor}	<administrative transfer to H10K 59/1216>
D	H01L 27/3267	5	{Dual display, i.e. having two independent displays}	<administrative transfer to H10K 59/128>
D	H01L 27/3269	5	{Including photosensors to control luminance}	<administrative transfer to H10K 59/13>
D	H01L 27/3272	5	{Shielding, e.g. of TFT}	<administrative transfer to H10K 59/126>
D	H01L 27/3274	5	{including organic thin film transistors [OTFT]}	<administrative transfer to H10K 59/125>
D	H01L 27/3276	5	{Wiring lines}	<administrative transfer to H10K 59/131>
D	H01L 27/3279	6	{comprising structures specially adapted for lowering the resistance}	<administrative transfer to H10K 59/1315>
D	H01L 27/3281	4	{Passive matrix displays}	<administrative transfer to H10K 59/17>
D	H01L 27/3283	5	{including banks or shadow masks}	<administrative transfer to H10K 59/173>
D	H01L 27/3286	5	{Dual display, i.e. having two independent displays}	<administrative transfer to H10K 59/176>
D	H01L 27/3288	5	{Wiring lines}	<administrative transfer to H10K 59/179>
D	H01L 27/329	6	{comprising structures specially adapted for lowering the resistance}	<administrative transfer to H10K 59/1795>
D	H01L 27/3293	4	{Tiled displays}	<administrative transfer to H10K 59/18>
D	H01L 51/00	0	Solid state devices using organic materials as the active part, or using a combination of organic materials with other materials as the active part; Processes or apparatus specially adapted for the manufacture or treatment of such devices, or of parts thereof (devices consisting of a plurality of components formed in or on a common substrate H01L 27/28; thermoelectric devices using organic material H01L35/00, H01L37/00; piezoelectric,	<administrative transfer to H10K 99/00>

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			electrostrictive or magnetostrictive elements using organic material H01L41/00)	
D	H01L 51/0001	1	{Processes specially adapted for the manufacture or treatment of devices or of parts thereof (multistep processes H01L 51/0098, H01L 51/05, H01L 51/42, H01L 51/50)}	<administrative transfer to H10K 71/00>
D	H01L 51/0002	2	{Deposition of organic semiconductor materials on a substrate}	<administrative transfer to H10K 71/10>
D	H01L 51/0003	3	{using liquid deposition, e.g. spin coating}	<administrative transfer to H10K 71/12>
D	H01L 51/0004	4	{using printing techniques, e.g. ink-jet printing, screen printing}	<administrative transfer to H10K 71/13>
D	H01L 51/0005	5	{ink-jet printing}	<administrative transfer to H10K 71/135>
D	H01L 51/0006	4	{Electrolytic deposition using an external electrical current, e.g. in-situ electropolymerisation}	<administrative transfer to H10K 71/125>
D	H01L 51/0007	4	{characterised by the solvent}	<administrative transfer to H10K 71/15>
D	H01L 51/0008	3	{using physical deposition, e.g. sublimation, sputtering}	<administrative transfer to H10K 71/16>
D	H01L 51/0009	4	{using laser ablation}	<administrative transfer to H10K 71/162>
D	H01L 51/001	4	{Vacuum deposition}	<administrative transfer to H10K 71/164>
D	H01L 51/0011	4	{selective deposition, e.g. using a mask}	<administrative transfer to H10K 71/166>
D	H01L 51/0012	3	{special provisions for the orientation or alignment of the layer to be deposited}	<administrative transfer to H10K 71/191>
D	H01L 51/0013	3	{using non liquid printing techniques, e.g. thermal transfer printing from a donor sheet}	<administrative transfer to H10K 71/18>
D	H01L 51/0014	2	{for changing the shape of the device layer, e.g. patterning}	<administrative transfer to H10K 71/20>
D	H01L 51/0015	3	{by selective transformation of an existing layer}	<administrative transfer to H10K 71/211>
D	H01L 51/0016	3	{lift off techniques}	<administrative transfer to H10K 71/221>

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D	H01L 51/0017	3	{etching of an existing layer}	<administrative transfer to H10K 71/231>
D	H01L 51/0018	4	{using photolithographic techniques}	<administrative transfer to H10K 71/233>
D	H01L 51/0019	4	{using printing techniques, e.g. applying the etch liquid using an ink jet printer}	<administrative transfer to H10K 71/236>
D	H01L 51/002	2	{Making n- or p-doped regions}	<administrative transfer to H10K 71/30>
D	H01L 51/0021	2	{Formation of conductors}	<administrative transfer to H10K 71/60>
D	H01L 51/0022	3	{using printing techniques, e.g. ink jet printing}	<administrative transfer to H10K 71/611>
D	H01L 51/0023	3	{Patterning of conductive layers}	<administrative transfer to H10K 71/621>
D	H01L 51/0024	2	{for forming devices by joining two substrates together, e.g. lamination technique}	<administrative transfer to H10K 71/50>
D	H01L 51/0025	2	{Purification process of the organic semiconductor material}	<administrative transfer to H10K 71/311>
D	H01L 51/0026	2	{Thermal treatment of the active layer, e.g. annealing}	<administrative transfer to H10K 71/40>
D	H01L 51/0027	3	{using coherent electromagnetic radiation, e.g. laser annealing}	<administrative transfer to H10K 71/421>
D	H01L 51/0028	3	{Thermal treatment in the presence of solvent vapors, e.g. solvent annealing}	<administrative transfer to H10K 71/441>
D	H01L 51/0029	2	{Special provisions for controlling the atmosphere during processing (H01L 51/0026 takes precedence)}	<administrative transfer to H10K 71/811>
D	H01L 51/003	2	{using a temporary substrate}	<administrative transfer to H10K 71/80>
D	H01L 51/0031	2	{Testing, e.g. accelerated lifetime tests of photoelectric devices}	<administrative transfer to H10K 71/70>
D	H01L 51/0032	1	{Selection of organic semiconducting materials, e.g. organic light sensitive or organic light emitting materials}	<administrative transfer to H10K 85/00>
D	H01L 51/0034	2	{Organic polymers or oligomers (organic macromolecular compounds or compositions <u>per se</u> C08)}	<administrative transfer to H10K 85/10>

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D	H01L 51/0035	3	{comprising aromatic, heteroaromatic, or aryllic chains, e.g. polyaniline (<u>per se</u> C08G73/026), polyphenylene (<u>per se</u> C08G61/10), polyphenylene vinylene (<u>per se</u> C08G61/02)}	<administrative transfer to H10K 85/111>
D	H01L 51/0036	4	{Heteroaromatic compounds comprising sulfur or selenene, e.g. polythiophene (<u>per se</u> C08G61/126)}	<administrative transfer to H10K 85/113>
D	H01L 51/0037	5	{Polyethylene dioxythiophene [PEDOT] and derivatives}	<administrative transfer to H10K 85/1135>
D	H01L 51/0038	4	{Poly-phenylenevinylene and derivatives (<u>per se</u> C08G61/10)}	<administrative transfer to H10K 85/114>
D	H01L 51/0039	4	{Polyfluorene and derivatives}	<administrative transfer to H10K 85/115>
D	H01L 51/004	3	{comprising aliphatic or olefinic chains, e.g. poly N-vinylcarbazol, PVC, PTFE}	<administrative transfer to H10K 85/141>
D	H01L 51/0041	4	{Poly acetylene (<u>per se</u> C08G61/04, C08F38/02, C08F138/02, C08F238/02) or derivatives}	<administrative transfer to H10K 85/143>
D	H01L 51/0042	4	{poly N-vinylcarbazol and derivatives}	<administrative transfer to H10K 85/146>
D	H01L 51/0043	3	{Copolymers}	<administrative transfer to H10K 85/151>
D	H01L 51/0044	3	{Ladder-type polymers}	<administrative transfer to H10K 85/154>
D	H01L 51/0045	2	{Carbon containing materials, e.g. carbon nanotubes, fullerenes (<u>per se</u> C01B32/15)}	<administrative transfer to H10K 85/20>
D	H01L 51/0046	3	{Fullerenes, e.g. C ₆₀ , C ₇₀ }	<administrative transfer to H10K 85/211>
D	H01L 51/0047	4	{comprising substituents, e.g. PCBM}	<administrative transfer to H10K 85/215>
D	H01L 51/0048	3	{Carbon nanotubes}	<administrative transfer to H10K 85/221>
D	H01L 51/0049	4	{comprising substituents}	<administrative transfer to H10K 85/225>
D	H01L 51/005	2	{Macromolecular systems with low molecular weight, e.g. cyanine dyes, coumarine dyes, tetrathiafulvalene (H01L 51/0045, H01L 51/0077, H01L 51/0093, H01L 51/0094 take precedence)}	<administrative transfer to H10K 85/60>

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D	H01L 51/0051	3	{Charge transfer complexes}	<administrative transfer to H10K 85/611>
D	H01L 51/0052	3	{Polycyclic condensed aromatic hydrocarbons, e.g. anthracene}	<administrative transfer to H10K 85/615>
D	H01L 51/0053	4	{Aromatic anhydride or imide compounds, e.g. perylene tetra-carboxylic dianhydride, perylene tetracarboxylic diimide}	<administrative transfer to H10K 85/621>
D	H01L 51/0054	4	{containing four rings, e.g. pyrene}	<administrative transfer to H10K 85/622>
D	H01L 51/0055	4	{containing five rings, e.g. pentacene}	<administrative transfer to H10K 85/623>
D	H01L 51/0056	4	{containing six or more rings}	<administrative transfer to H10K 85/624>
D	H01L 51/0057	4	{containing at least one aromatic ring having 7 or more carbon atoms, e.g. azulene}	<administrative transfer to H10K 85/625>
D	H01L 51/0058	4	{containing more than one polycyclic condensed aromatic rings, e.g. bis-anthracene}	<administrative transfer to H10K 85/626>
D	H01L 51/0059	3	{Amine compounds having at least two aryl rest on at least one amine-nitrogen atom, e.g. triphenylamine (<u>per se</u> C07C211/00)}	<administrative transfer to H10K 85/631>
D	H01L 51/006	4	{comprising polycyclic condensed aromatic hydrocarbons as substituents on the nitrogen atom}	<administrative transfer to H10K 85/633>
D	H01L 51/0061	4	{comprising heteroaromatic hydrocarbons as substituents on the nitrogen atom}	<administrative transfer to H10K 85/636>
D	H01L 51/0062	3	{aromatic compounds comprising a hetero atom, e.g.: N,P,S}	<administrative transfer to H10K 85/649>
D	H01L 51/0064	4	{Cyanine Dyes}	<administrative transfer to H10K 85/652>
D	H01L 51/0065	4	{comprising only oxygen as heteroatom}	<administrative transfer to H10K 85/653>
D	H01L 51/0067	4	{comprising only nitrogen as heteroatom (H01L 51/0064 takes precedence)}	<administrative transfer to H10K 85/654>
D	H01L 51/0068	4	{comprising only sulfur as heteroatom}	<administrative transfer to H10K 85/655>
D	H01L 51/0069	4	{comprising two or more different heteroatoms per ring, e.g. S and N (H01L 51/0064 takes precedence)}	<administrative transfer to H10K 85/656>

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D	H01L 51/007	5	{Oxadiazole compounds}	<administrative transfer to H10K 85/6565>
D	H01L 51/0071	4	{Polycyclic condensed heteroaromatic hydrocarbons}	<administrative transfer to H10K 85/657>
D	H01L 51/0072	5	{comprising only nitrogen in the heteroaromatic polycondensed ringsystem, e.g. phenanthroline, carbazole}	<administrative transfer to H10K 85/6572>
D	H01L 51/0073	5	{comprising only oxygen in the heteroaromatic polycondensed ringsystem, e.g. cumarine dyes}	<administrative transfer to H10K 85/6574>
D	H01L 51/0074	5	{comprising only sulfur in the heteroaromatic polycondensed ringsystem, e.g. benzothiophene}	<administrative transfer to H10K 85/6576>
D	H01L 51/0075	2	{Langmuir Blodgett films (<u>per se</u> B05D1/202)}	<administrative transfer to H10K 85/701>
D	H01L 51/0076	2	{Liquid crystalline materials (<u>per se</u> C09K19/00)}	<administrative transfer to H10K 85/731>
D	H01L 51/0077	2	{Coordination compounds, e.g. porphyrin}	<administrative transfer to H10K 85/30>
D	H01L 51/0078	3	{Phthalocyanine (<u>per se</u> C09B47/04)}	<administrative transfer to H10K 85/311>
D	H01L 51/0079	3	{Metal complexes comprising a IIIB-metal (B, Al, Ga, In or Tl), e.g. Tris (8-hydroxyquinoline) gallium (Gaq ₃)}	<administrative transfer to H10K 85/321>
D	H01L 51/008	4	{comprising boron}	<administrative transfer to H10K 85/322>
D	H01L 51/0081	4	{comprising aluminium, e.g. Alq ₃ }	<administrative transfer to H10K 85/324>
D	H01L 51/0082	4	{comprising gallium}	<administrative transfer to H10K 85/326>
D	H01L 51/0083	3	{Metal complexes comprising an iron-series metal, e.g. Fe, Co, Ni}	<administrative transfer to H10K 85/331>
D	H01L 51/0084	3	{Transition metal complexes, e.g. Ru(II)polypyridine complexes}	<administrative transfer to H10K 85/341>
D	H01L 51/0085	4	{comprising Iridium}	<administrative transfer to H10K 85/342>
D	H01L 51/0086	4	{comprising Ruthenium}	<administrative transfer to H10K 85/344>

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D	H01L 51/0087	4	{comprising platinum}	<administrative transfer to H10K 85/346>
D	H01L 51/0088	4	{comprising osmium}	<administrative transfer to H10K 85/348>
D	H01L 51/0089	3	{Metal complexes comprising Lanthanides or Actinides, e.g. Eu}	<administrative transfer to H10K 85/351>
D	H01L 51/009	3	{Polynuclear complexes, i.e. complexes having two or more metal centers}	<administrative transfer to H10K 85/361>
D	H01L 51/0091	3	{Metal complexes comprising a IB-metal (Cu, Ag, Au)}	<administrative transfer to H10K 85/371>
D	H01L 51/0092	3	{Metal complexes comprising a IIB-metal (Zn, Cd, Hg)}	<administrative transfer to H10K 85/381>
D	H01L 51/0093	2	{Biomolecules or bio-macromolecules, e.g. proteins, ATP, chlorophyl, beta-carotene, lipids, enzymes}	<administrative transfer to H10K 85/761>
D	H01L 51/0094	2	{Silicon-containing organic semiconductors}	<administrative transfer to H10K 85/40>
D	H01L 51/0095	2	{Starburst compounds}	<administrative transfer to H10K 85/791>
D	H01L 51/0096	1	{Substrates}	<administrative transfer to H10K 77/10>
D	H01L 51/0097	2	{flexible substrates}	<administrative transfer to H10K 77/111>
D	H01L 51/0098	1	{Molecular electronic devices (molecular computers G06F15/80; molecular memories G11C11/00, G11C13/02)}	<administrative transfer to H10K 30/671>
D	H01L 51/05	1	especially adapted for rectifying, amplifying, oscillating or switching, or capacitors or resistors with at least one potential- jump barrier or surface barrier {multistep processes for their manufacture}	<administrative transfer to H10K 10/00>
D	H01L 51/0504	2	{the devices being controllable only by the electric current supplied or the electric potential applied, to an electrode which does not carry the current to be rectified, amplified or swiched, e.g. three-terminal devices}	<administrative transfer to H10K 10/00>
D	H01L 51/0508	3	{Field-effect devices, e.g. TFTs}	<administrative transfer to H10K 10/46>
D	H01L 51/0512	4	{insulated gate field effect transistors}	<administrative transfer to H10K 10/462>

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D	H01L 51/0516	5	{characterised by the gate dielectric}	<administrative transfer to H10K 10/468>
D	H01L 51/052	6	{the gate dielectric comprising only organic materials}	<administrative transfer to H10K 10/471>
D	H01L 51/0525	6	{the gate dielectric comprising only inorganic materials}	<administrative transfer to H10K 10/472>
D	H01L 51/0529	6	{the gate dielectric having a multilayered structure}	<administrative transfer to H10K 10/474>
D	H01L 51/0533	7	{Combinations of organic and inorganic layers}	<administrative transfer to H10K 10/476>
D	H01L 51/0537	6	{the gate dielectric comprising composite materials, e.g. TiO ₂ particles in a polymer matrix}	<administrative transfer to H10K 10/478>
D	H01L 51/0541	5	{Lateral single gate single channel transistors with non inverted structure, i.e. the organic semiconductor layer is formed before the gate electrode}	<administrative transfer to H10K 10/464>
D	H01L 51/0545	5	{Lateral single gate single channel transistors with inverted structure, i.e. the organic semiconductor layer is formed after the gate electrode}	<administrative transfer to H10K 10/466>
D	H01L 51/055	5	{characterised by the gate conductor}	<administrative transfer to H10K 10/481>
D	H01L 51/0554	6	{the transistor having two or more gate electrodes}	<administrative transfer to H10K 10/482>
D	H01L 51/0558	5	{characterised by the channel of the transistor}	<administrative transfer to H10K 10/484>
D	H01L 51/0562	6	{the channel comprising two or more active layers, e.g. forming pn - hetero junction}	<administrative transfer to H10K 10/486>
D	H01L 51/0566	6	{the channel comprising a composite layer, e.g. a mixture of donor and acceptor moieties, forming pn - bulk hetero junction}	<administrative transfer to H10K 10/488>
D	H01L 51/057	5	{having a vertical structure, e.g. vertical carbon nanotube field effect transistors [CNT-FETs]}	<administrative transfer to H10K 10/491>
D	H01L 51/0575	2	{the devices being controllable only by variation of the electric current supplied or the electric potential applied, to one or more of the electrodes carrying the current to be rectified, amplified, oscillated or switched, e.g. two-terminal devices}	<administrative transfer to H10K 10/20>
D	H01L 51/0579	3	{Schottky diodes}	<administrative transfer to H10K 10/23>

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D	H01L 51/0583	3	{comprising an organic/organic junction, e.g. hetero-junction}	<administrative transfer to H10K 10/26>
D	H01L 51/0587	3	{comprising an organic/inorganic hetero-junction, e.g. hetero-junction}	<administrative transfer to H10K 10/29>
D	H01L 51/0591	3	{Bi-stable switching devices}	<administrative transfer to H10K 10/50>
D	H01L 51/0595	3	{molecular electronic devices (molecular computers G06F15/80; molecular memories G11C11/00, G11C13/02)}	<administrative transfer to H10K 10/701>
D	H01L 51/10	2	Details of devices	<administrative transfer to H10K 10/80>
D	H01L 51/102	3	{Electrodes}	<administrative transfer to H10K 10/82>
D	H01L 51/105	4	{Ohmic contacts, e.g. source and drain electrodes}	<administrative transfer to H10K 10/84>
D	H01L 51/107	3	{Passivation, containers, encapsulations}	<administrative transfer to H10K 10/88>
D	H01L 51/42	1	specially adapted for sensing infra-red radiation, light, electro-magnetic radiation of shorter wavelength or corpuscular radiation and adapted for the conversion of the energy of such radiation into electrical energy or for the control of electrical energy by such radiation {using organic materials as the active part, or using a combination of organic materials with other material as the active part; Multistep processes for their manufacture}	<administrative transfer to H10K 30/00>
D	H01L 51/4206	2	{Metal-organic semiconductor-metal devices}	<administrative transfer to H10K 30/451>
D	H01L 51/4213	2	{Comprising organic semiconductor-inorganic semiconductor hetero-junctions (H01L 51/4253 takes precedence)}	<administrative transfer to H10K 30/10>
D	H01L 51/422	3	{Majority carrier devices using sensitisation of widebandgap semiconductors, e.g. TiO ₂ (photoelectrochemical devices with a liquid or solid electrolyte H01G 9/20)}	<administrative transfer to H10K 30/15>
D	H01L 51/4226	4	{the wideband gap semiconductor comprising titanium oxide, e.g. TiO ₂ }	<administrative transfer to H10K 30/151>
D	H01L 51/4233	4	{the wideband gap semiconductor comprising zinc oxide, e.g. ZnO}	<administrative transfer to H10K 30/152>

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D	H01L 51/424	2	{comprising organic semiconductor-organic semiconductor hetero-junctions (H01L 51/4253 takes precedence)}	<administrative transfer to H10K 30/20>
D	H01L 51/4246	3	{comprising multi-junctions, e.g. double hetero-junctions}	<administrative transfer to H10K 30/211>
D	H01L 51/4253	2	{comprising bulk hetero-junctions, e.g. interpenetrating networks}	<administrative transfer to H10K 30/30>
D	H01L 51/426	3	{comprising inorganic nanostructures, e.g. CdSe nanoparticles}	<administrative transfer to H10K 30/35>
D	H01L 51/4266	4	{the inorganic nanostructures being nanotubes or nanowires, e.g. CdTe nanotubes in P3HT}	<administrative transfer to H10K 30/352>
D	H01L 51/4273	3	{comprising blocking layers, e.g. exciton blocking layers}	<administrative transfer to H10K 30/353>
D	H01L 51/428	2	{light sensitive field effect devices}	<administrative transfer to H10K 30/65>
D	H01L 51/4286	2	{Devices having a m-i-s structure}	<administrative transfer to H10K 30/354>
D	H01L 51/4293	2	{Devices having a p-i-n structure}	<administrative transfer to H10K 30/40>
D	H01L 51/44	2	Details of devices	<administrative transfer to H10K 30/80>
D	H01L 51/441	3	{Electrodes}	<administrative transfer to H10K 30/81>
D	H01L 51/442	4	{transparent electrodes, e.g. ITO, TCO}	<administrative transfer to H10K 30/82>
D	H01L 51/444	5	{comprising carbon nanotubes}	<administrative transfer to H10K 30/821>
D	H01L 51/445	5	{comprising arrangements for extracting the current from the cell, e.g. metal finger grid systems to reduce the serial resistance of transparent electrodes}	<administrative transfer to H10K 30/83>
D	H01L 51/447	3	{Light trapping means}	<administrative transfer to H10K 30/87>
D	H01L 51/448	3	{Passivation, containers, encapsulations}	<administrative transfer to H10K 30/88>
D	H01L 51/50	1	specially adapted for light emission, e.g. organic light emitting diodes [OLED] or polymer light emitting devices [PLED] (organic semiconductor lasers H01S	<administrative transfer to H10K 50/00>

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			5/36 {; circuit arrangements for OLED or PLED H05B 45/60; control arrangements for organic electroluminescent displays G09G 3/3208})	
D	H01L 51/5004	2	{characterised by the interrelation between parameters of constituting active layers, e.g. HOMO-LUMO relation}	<administrative transfer to H10K 50/11 and H10K 2101/40 simultaneously>
D	H01L 51/5008	2	{Intermediate layers comprising a mixture of materials of the adjoining active layers}	<administrative transfer to H10K 30/865>
D	H01L 51/5012	2	{Electroluminescent [EL] layer}	<administrative transfer to H10K 50/11>
D	H01L 51/5016	3	{Triplet emission}	<administrative transfer to H10K 50/11 and H10K 2101/10 simultaneously>
D	H01L 51/502	3	{comprising active inorganic nanostructures, e.g. luminescent quantum dots}	<administrative transfer to H10K 50/115>
D	H01L 51/5024	3	{having a host comprising an emissive dopant and further additive materials, e.g. for improving the dispersability, for improving the stabilisation, for assisting energy transfer}	<administrative transfer to H10K 50/12>
D	H01L 51/5028	4	{for assisting energy transfer, e.g. sensitization}	<administrative transfer to H10K 50/121>
D	H01L 51/5032	3	{Light emitting electrochemical cells [LEC], i.e. with mobile ions in the active layer}	<administrative transfer to H10K 50/135>
D	H01L 51/5036	3	{Multi-colour light emission, e.g. colour tuning, polymer blend, stack of electroluminescent layers}	<administrative transfer to H10K 50/125>
D	H01L 51/504	4	{Stack of electroluminescent layers}	<administrative transfer to H10K 50/13>
D	H01L 51/5044	5	{with spacer layers between the emissive layers}	<administrative transfer to H10K 50/131>
D	H01L 51/5048	2	{Carrier transporting layer}	<administrative transfer to H10K 50/14>
D	H01L 51/5056	3	{Hole transporting layer}	<administrative transfer to H10K 50/15>
D	H01L 51/506	4	{comprising a dopant}	<administrative transfer to H10K 50/155>
D	H01L 51/5064	4	{having a multilayered structure}	<administrative transfer to H10K 50/156>

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D	H01L 51/5068	4	{arranged between the light emitting layer and the cathode}	<administrative transfer to H10K 50/157>
D	H01L 51/5072	3	{Electron transporting layer}	<administrative transfer to H10K 50/16>
D	H01L 51/5076	4	{comprising a dopant}	<administrative transfer to H10K 50/165>
D	H01L 51/508	4	{having a multilayered structure}	<administrative transfer to H10K 50/166>
D	H01L 51/5084	4	{arranged between the light emitting layer and the anode}	<administrative transfer to H10K 50/167>
D	H01L 51/5088	2	{Carrier injection layer}	<administrative transfer to H10K 50/17>
D	H01L 51/5092	3	{Electron injection layer}	<administrative transfer to H10K 50/171>
D	H01L 51/5096	2	{Carrier blocking layer}	<administrative transfer to H10K 50/18>
D	H01L 51/52	2	Details of devices	<administrative transfer to H10K 50/80>
D	H01L 51/5203	3	{Electrodes}	<administrative transfer to H10K 50/805>
D	H01L 51/5206	4	{Anodes, i.e. with high work-function material}	<administrative transfer to H10K 50/81>
D	H01L 51/5209	5	{characterised by the shape}	<administrative transfer to H10K 50/813>
D	H01L 51/5212	5	{combined with auxiliary electrode, e.g. ITO layer combined with metal lines}	<administrative transfer to H10K 50/814>
D	H01L 51/5215	5	{composed of transparent multilayers}	<administrative transfer to H10K 50/816>
D	H01L 51/5218	5	{Reflective anodes, e.g. ITO combined with thick metallic layer}	<administrative transfer to H10K 50/818>
D	H01L 51/5221	4	{Cathodes, i.e. with low work-function material}	<administrative transfer to H10K 50/82>
D	H01L 51/5225	5	{characterised by the shape}	<administrative transfer to H10K 50/822>

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D	H01L 51/5228	5	{combined with auxiliary electrodes}	<administrative transfer to H10K 50/824>
D	H01L 51/5231	5	{composed of opaque multilayers}	<administrative transfer to H10K 50/826>
D	H01L 51/5234	5	{Transparent, e.g. including thin metal film}	<administrative transfer to H10K 50/828>
D	H01L 51/5237	3	{Passivation; Containers; Encapsulation, e.g. against humidity}	<administrative transfer to H10K 50/84>
D	H01L 51/524	4	{Sealing arrangements having a self-supporting structure, e.g. containers}	<administrative transfer to H10K 50/841>
D	H01L 51/5243	5	{the sealing arrangements being made of metallic material}	<administrative transfer to H10K 50/8423>
D	H01L 51/5246	5	{characterised by the peripheral sealing arrangements, e.g. adhesives, sealants}	<administrative transfer to H10K 50/8426>
D	H01L 51/525	5	{Vertical spacers, e.g. arranged between the sealing arrangement and the OLED}	<administrative transfer to H10K 50/8428>
D	H01L 51/5253	4	{Protective coatings}	<administrative transfer to H10K 50/844>
D	H01L 51/5256	5	{having repetitive multilayer structures}	<administrative transfer to H10K 50/8445>
D	H01L 51/5259	4	{including getter material or desiccant}	<administrative transfer to H10K 50/846>
D	H01L 51/5262	3	{Arrangements for extracting light from the device}	<administrative transfer to H10K 50/85>
D	H01L 51/5265	4	{comprising a resonant cavity structure, e.g. Bragg reflector pair}	<administrative transfer to H10K 50/852>
D	H01L 51/5268	4	{Scattering means}	<administrative transfer to H10K 50/854>
D	H01L 51/5271	4	{Reflective means}	<administrative transfer to H10K 50/856>
D	H01L 51/5275	4	{Refractive means, e.g. lens}	<administrative transfer to H10K 50/858>
D	H01L 51/5278	4	{comprising a repetitive electroluminescent unit between one set of electrodes}	<administrative transfer to H10K 50/19>

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D	H01L 51/5281	3	{Arrangements for contrast improvement, e.g. preventing reflection of ambient light}	<administrative transfer to H10K 50/86>
D	H01L 51/5284	4	{comprising a light absorbing layer, e.g. black layer}	<administrative transfer to H10K 50/865>
D	H01L 51/5287	3	{OLED having a fiber structure}	<administrative transfer to H10K 50/182>
D	H01L 51/529	3	{Arrangements for heating or cooling}	<administrative transfer to H10K 50/87>
D	H01L 51/5293	3	{Arrangements for polarized light emission (H01L 51/5281 takes precedence)}	<administrative transfer to H10K 50/868>
D	H01L 51/5296	3	{Light emitting organic transistors}	<administrative transfer to H10K 50/30>
D	H01L 51/56	2	Processes or apparatus specially adapted for the manufacture or treatment of such devices or of parts thereof	<administrative transfer to H10K 71/00>
D	H01L 2227/00	0	Indexing scheme for devices consisting of a plurality of semiconductor or other solid state components formed in or on a common substrate covered by group H01L 27/00	<no transfer>
D	H01L 2227/32	1	Devices including an organic light emitting device [OLED], e.g. OLED display	<administrative transfer to H10K 59/10 INV>
D	H01L 2227/323	2	Multistep processes for AMOLED	<administrative transfer to H10K 59/1201 INV>
D	H01L 2227/326	2	Use of temporary substrate, e.g. for manufacturing of OLED displays having an inorganic driving circuit	<administrative transfer to H10K 71/80 INV, H10K 59/1201 INV simultaneously>
D	H01L2251/00	0	Indexing scheme relating to organic semiconductor devices covered by group H01L 51/00	<no transfer>
D	H01L2251/10	1	Processes specially adapted for the manufacture or treatment of organic semiconductor devices	<administrative transfer to H10K 71/00>
D	H01L2251/105	2	Patterning of a layer by embossing, e.g. to form trenches in an insulating layer	<administrative transfer to H10K 71/821>
D	H01L2251/30	1	Materials	<administrative transfer to H10K 2102/00>
D	H01L2251/301	2	Inorganic materials	<administrative transfer to H10K 2102/00>

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D	H01L2251/303	3	Oxides, e.g. metal oxides	<administrative transfer to H10K 2102/00>
D	H01L2251/305	4	Transparent conductive oxides [TCO]	<administrative transfer to H10K 2102/101>
D	H01L2251/306	5	composed of tin oxides, e.g. F doped SnO ₂	<administrative transfer to H10K 2102/102>
D	H01L2251/308	5	composed of indium oxides, e.g. ITO	<administrative transfer to H10K 2102/103>
D	H01L2251/50	1	Organic light emitting devices	<administrative transfer to H10K2102/301>
D	H01L2251/53	2	Structure	<administrative transfer to H10K 2102/302>
D	H01L2251/5307	3	specially adapted for controlling the direction of light emission	<administrative transfer to H10K 2102/3023>
D	H01L2251/5315	4	Top emission	<administrative transfer to H10K 2102/3026>
D	H01L2251/5323	4	Two-side emission, i.e. TOLED	<administrative transfer to H10K 2102/3031>
D	H01L2251/533	4	End-face emission	<administrative transfer to H10K 2102/3035>
D	H01L2251/5338	3	Flexible OLED	<administrative transfer to H10K 2102/311>
D	H01L2251/5346	3	Graded composition	<administrative transfer to H10K 2101/80>
D	H01L2251/5353	3	Inverted OLED	<administrative transfer to H10K 2102/321>
D	H01L2251/5361	3	OLED lamp	<no transfer>
D	H01L2251/5369	3	Nanoparticles used in whatever layer except emissive layer, e.g. in packaging	<administrative transfer to H10K 2102/331>
D	H01L2251/5376	3	Combination of fluorescent and phosphorescent emission	<administrative transfer to H10K 2101/27>
D	H01L2251/5384	3	Multiple hosts in the emissive layer	<administrative transfer to H10K 2101/90>

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D	H01L2251/5392	3	Short-circuit prevention	<administrative transfer to H10K 2102/341>
D	H01L2251/55	2	characterised by parameters	<administrative transfer to H10K 2101/00>
D	H01L2251/552	3	HOMO-LUMO-EF	<administrative transfer to H10K 2101/30>
D	H01L2251/554	3	Oxidation-reduction potential	<administrative transfer to H10K 2101/50>
D	H01L2251/556	3	Temperature	<administrative transfer to H10K 2102/361>
D	H01L2251/558	3	Thickness	<administrative transfer to H10K 2102/351>
D	H01L2251/56	2	Processes specially adapted for the manufacture or treatment of OLED	<administrative transfer to H10K 71/00>
D	H01L2251/562	3	Aging	<administrative transfer to H10K 71/831>
D	H01L2251/564	3	Application of alternating current	<administrative transfer to H10K 71/841>
D	H01L2251/566	3	Division of substrate, e.g. for manufacturing of OLED displays	<administrative transfer to H10K 71/851>
D	H01L2251/568	3	Repairing	<administrative transfer to H10K 71/861>

SUBCLASS H10K - ORGANIC ELECTRIC SOLID-STATE DEVICES

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title “CPC only” text should normally be enclosed in {curly brackets}**	Transferred to#
N	H10K	Subclass	ORGANIC ELECTRIC SOLID-STATE DEVICES	

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Q	H10K 10/00	0	Organic devices specially adapted for rectifying, amplifying, oscillating or switching; Organic capacitors or resistors having a potential-jump barrier or a surface barrier (integrated devices or assemblies of multiple devices H10K 19/00)	H10K 10/00, H10K 10/10, H10K 10/40, H10K 10/43
N	H10K 10/10	1	Organic capacitors or resistors comprising a potential-jump barrier or surface barrier	
N	H10K 10/20	1	Organic diodes	
N	H10K 10/23	2	Schottky diodes	
N	H10K 10/26	2	Diodes comprising organic-organic junctions	
N	H10K 10/29	2	Diodes comprising organic-inorganic heterojunctions	
N	H10K 10/40	1	Organic transistors	
N	H10K 10/43	2	Bipolar transistors, e.g. organic bipolar junction transistors [OBJT]	
N	H10K 10/46	2	Field-effect transistors, e.g. organic thin-film transistors [OTFT] (H10K 10/43 takes precedence)	
N	H10K 10/462	3	{Insulated gate field-effect transistors [IGFETs]}	
N	H10K 10/464	4	{Lateral top-gate IGFETs comprising only a single gate}	
N	H10K 10/466	4	{Lateral bottom-gate IGFETs comprising only a single gate}	
N	H10K 10/468	4	{characterised by the gate dielectrics}	
N	H10K 10/471	5	{the gate dielectric comprising only organic materials}	
N	H10K 10/472	5	{the gate dielectric comprising only inorganic materials}	
N	H10K 10/474	5	{the gate dielectric comprising a multilayered structure}	
N	H10K 10/476	6	{comprising at least one organic layer and at least one inorganic layer}	
N	H10K 10/478	5	{the gate dielectric comprising a layer of composite material comprising interpenetrating or embedded materials, e.g. TiO ₂ particles in a polymer matrix}	
N	H10K 10/481	4	{characterised by the gate conductors}	
N	H10K 10/482	5	{the IGFET comprising multiple separately-addressable gate electrodes}	
N	H10K 10/484	4	{characterised by the channel regions}	
N	H10K 10/486	5	{the channel region comprising two or more active layers, e.g. forming pn heterojunctions}	
N	H10K 10/488	5	{the channel region comprising a layer of composite material having interpenetrating or embedded materials, e.g. a mixture of donor and acceptor moieties, that form a bulk heterojunction}	
N	H10K 10/491	4	{Vertical transistors, e.g. vertical carbon nanotube field effect transistors [CNT-FETs]}	
N	H10K 10/50	1	Bistable switching devices	
N	H10K 10/701	1	{Organic molecular electronic devices}	
Q	H10K 10/80	1	Constructional details	H10K 10/80, H10K 77/00

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Q	H10K 10/82	2	Electrodes	H10K 10/82, H10K 10/86
N	H10K 10/84	3	Ohmic electrodes, e.g. source or drain electrodes	
N	H10K 10/86	3	Schottky electrodes	
N	H10K 10/88	2	Passivation; Containers; Encapsulations	
Q	H10K 19/00	0	Integrated devices, or assemblies of multiple devices, comprising at least one organic element specially adapted for rectifying, amplifying, oscillating or switching, covered by group H10K 10/00	H10K 19/00, H10K 19/80
N	H10K 19/10	1	comprising field-effect transistors	
N	H10K 19/20	1	comprising components having an active region that includes an inorganic semiconductor	
Q	H10K 19/201	1	{Integrated devices having a three-dimensional layout, e.g. 3D ICs}	H10K 19/201, H10K 39/401, H10K 59/751
Q	H10K 19/202	1	{Integrated devices comprising a common active layer}	H10K 19/202, H10K 39/501, H10K 59/771
N	H10K 19/80	1	Interconnections, e.g. terminals	
N	H10K 19/901	1	{Assemblies of multiple devices comprising at least one organic element specially adapted for rectifying, amplifying, oscillating or switching}	
Q	H10K 30/00	0	Organic devices sensitive to infrared radiation, light, electromagnetic radiation of shorter wavelength or corpuscular radiation (integrated devices or assemblies of multiple devices H10K 39/00, H10K 65/00; electrolytic light-sensitive devices H01G 9/20)	H10K 30/00, H10K 30/50, H10K 30/53 H10K 30/60
Q	H10K 30/10	1	comprising heterojunctions between organic semiconductors and inorganic semiconductors	H10K 30/10, H10K 30/50, H10K 30/53
Q	H10K 30/15	2	Sensitised wide-bandgap semiconductor devices, e.g. dye-sensitised TiO ₂ (photo-electrochemical devices comprising a liquid electrolyte or a solid electrolyte H01G 9/20)	H10K 30/15, H10K 30/50, H10K 30/53
Q	H10K 30/151	3	{the wide bandgap semiconductor comprising titanium oxide, e.g. TiO ₂ }	H10K 30/151, H10K 30/50, H10K 30/53
Q	H10K 30/152	3	{the wide bandgap semiconductor comprising zinc oxide, e.g. ZnO}	H10K 30/152, H10K 30/50, H10K 30/53
Q	H10K 30/20	1	comprising organic-organic junctions, e.g. donor-acceptor junctions	H10K 30/20, H10K 30/50, H10K 30/53
Q	H10K 30/211	2	{comprising multiple junctions, e.g. double heterojunctions}	H10K 30/211, H10K 30/50, H10K 30/53
Q	H10K 30/30	1	comprising bulk heterojunctions, e.g. interpenetrating networks of donor and acceptor material domains	H10K 30/30, H10K 30/50, H10K 30/53
Q	H10K 30/35	2	comprising inorganic nanostructures, e.g. CdSe nanoparticles	H10K 30/35, H10K 30/50, H10K 30/53
Q	H10K 30/352	3	{the inorganic nanostructures being nanotubes or nanowires, e.g. CdTe nanotubes in P3HT polymer}	H10K 30/352, H10K 30/50, H10K 30/53
Q	H10K 30/353	2	{comprising blocking layers, e.g. exciton blocking layers}	H10K 30/353, H10K 30/50, H10K 30/53
Q	H10K 30/354	1	{comprising a metal-insulator-semiconductor [m-i-s] structure}	H10K 30/354, H10K 30/50, H10K 30/53

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Q	H10K 30/40	1	comprising a p-i-n structure, e.g. having a perovskite absorber between p-type and n-type charge transport layers	H10K 30/40, H10K 30/50, H10K 30/53
Q	H10K 30/451	1	{comprising a metal-semiconductor-metal [m-s-m] structure}	H10K 30/451, H10K 30/50, H10K 30/53
N	H10K 30/50	1	Photovoltaic [PV] devices	
N	H10K 30/53	2	in the form of fibres or tubes, e.g. photovoltaic fibres	
N	H10K 30/57	2	comprising multiple junctions, e.g. tandem PV cells	
N	H10K 30/60	1	in which radiation controls flow of current through the devices, e.g. photoresistors	
N	H10K 30/65	2	Light-sensitive field-effect devices, e.g. phototransistors	
Q	H10K 30/671	1	{Organic radiation-sensitive molecular electronic devices}	H10K 30/671, H10K 50/401
Q	H10K 30/80	1	Constructional details	H10K 30/80, H10K 30/84, H10K 30/85, H10K 30/86, H10K 30/89, H10K 77/00
N	H10K 30/81	2	Electrodes	
N	H10K 30/82	3	Transparent electrodes, e.g. indium tin oxide [ITO] electrodes	
N	H10K 30/821	4	{comprising carbon nanotubes}	
N	H10K 30/83	4	comprising arrangements for extracting the current from the cell, e.g. metal finger grid systems to reduce the serial resistance of transparent electrodes	
N	H10K 30/84	2	Layers having high charge carrier mobility	
N	H10K 30/85	3	Layers having high electron mobility, e.g. electron-transporting layers or hole-blocking layers	
N	H10K 30/86	3	Layers having high hole mobility, e.g. hole-transporting layers or electron-blocking layers	
N	H10K 30/865	2	{Intermediate layers comprising a mixture of materials of the adjoining active layers}	
N	H10K 30/87	2	Light-trapping means	
N	H10K 30/88	2	Passivation; Containers; Encapsulations	
N	H10K 30/89	2	Terminals, e.g. bond pads	
N	H10K 39/00	0	Integrated devices, or assemblies of multiple devices, comprising at least one organic radiation-sensitive element covered by group H10K 30/00	
Q	H10K 39/10	1	Organic photovoltaic [PV] modules; Arrays of single organic PV cells	H10K 39/10, H10K 39/12, H10K 39/15, H10K 39/18
N	H10K 39/12	2	Electrical configurations of PV cells, e.g. series connections or parallel connections	
N	H10K 39/15	2	comprising both organic PV cells and inorganic PV cells	
N	H10K 39/18	2	Interconnections, e.g. terminals	
Q	H10K 39/30	1	Devices controlled by radiation	H10K 39/30, H10K 39/38
N	H10K 39/32	2	Organic image sensors	

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N	H10K 39/34	3	integrated with organic light-emitting diodes [OLED]	
N	H10K 39/36	2	Devices specially adapted for detecting X-ray radiation	
N	H10K 39/38	2	Interconnections, e.g. terminals	
N	H10K 39/401	1	{Integrated devices having a three-dimensional layout, e.g. 3D ICs}	
N	H10K 39/501	1	{Integrated devices comprising a common active layer}	
Q	H10K 39/601	1	{Assemblies of multiple devices comprising at least one organic radiation-sensitive element}	H10K 39/601, H10K 39/621
N	H10K 39/621	2	{comprising only organic radiation-sensitive elements}	
Q	H10K 50/00	0	Organic light-emitting devices (integrated devices or assemblies of multiple devices H10K 59/00, H10K 65/00; organic semiconductor lasers H01S 5/36)	H10K 50/00, H10K 50/10
N	H10K 50/10	1	OLEDs or polymer light-emitting diodes [PLED]	
N	H10K 50/11	2	characterised by the electroluminescent [EL] layers	
N	H10K 50/115	3	comprising active inorganic nanostructures, e.g. luminescent quantum dots	
N	H10K 50/12	3	comprising dopants	
N	H10K 50/121	4	{for assisting energy transfer, e.g. sensitization}	
N	H10K 50/125	3	specially adapted for multicolour light emission, e.g. for emitting white light	
N	H10K 50/13	4	comprising stacked EL layers within one EL unit	
N	H10K 50/131	5	{with spacer layers between the electroluminescent layers}	
N	H10K 50/135	3	comprising mobile ions	
N	H10K 50/14	2	Carrier transporting layers	
N	H10K 50/15	3	Hole transporting layers	
N	H10K 50/155	4	comprising dopants	
N	H10K 50/156	4	{comprising a multilayered structure}	
N	H10K 50/157	4	{between the light-emitting layer and the cathode}	
N	H10K 50/16	3	Electron transporting layers	
N	H10K 50/165	4	comprising dopants	
N	H10K 50/166	4	{comprising a multilayered structure}	
N	H10K 50/167	4	{between the light-emitting layer and the anode}	
Q	H10K 50/17	2	Carrier injection layers	H10K 50/17, H10K 50/171
N	H10K 50/171	3	{Electron injection layers}	
Q	H10K 50/18	2	Carrier blocking layers	H10K 50/18, H10K 50/181
N	H10K 50/181	3	{Electron blocking layers}	
N	H10K 50/182	2	{OLED comprising a fiber structure}	
N	H10K 50/19	2	Tandem OLEDs	
N	H10K 50/30	1	Organic light-emitting transistors	
N	H10K 50/401	1	{Organic light-emitting molecular electronic devices}	

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Q	H10K 50/80	1	Constructional details	H10K 50/80, H10K 50/88, H10K 59/80, H10K 77/00
Q	H10K 50/805	2	Electrodes	H10K 50/805, H10K 59/805
Q	H10K 50/81	3	Anodes	H10K 50/81, H10K 50/816, H10K 59/8051
Q	H10K 50/813	4	characterised by their shape	H10K 50/813, H10K 59/80515
Q	H10K 50/814	4	combined with auxiliary electrodes, e.g. ITO layer combined with metal lines	H10K 50/814, H10K 59/80516
Q	H10K 50/816	4	Multilayers, e.g. transparent multilayers	H10K 50/816, H10K 59/80517
Q	H10K 50/818	4	Reflective anodes, e.g. ITO combined with thick metallic layers	H10K 50/818, H10K 59/80518
Q	H10K 50/82	3	Cathodes	H10K 50/82, H10K 50/826, H10K 59/8052
Q	H10K 50/822	4	characterised by their shape	H10K 50/822, H10K 59/80521
Q	H10K 50/824	4	combined with auxiliary electrodes	H10K 50/824, H10K 59/80522
Q	H10K 50/826	4	Multilayers, e.g. opaque multilayers	H10K 50/826, H10K 59/80523
Q	H10K 50/828	4	Transparent cathodes, e.g. comprising thin metal layers	H10K 50/828, H10K 59/80524
Q	H10K 50/84	2	Passivation; Containers; Encapsulations	H10K 50/84, H10K 59/87
Q	H10K 50/841	3	{Self-supporting sealing arrangements}	H10K 50/841, H10K 50/842, H10K 59/871, H10K 59/872
N	H10K 50/842	3	Containers	
Q	H10K 50/8423	4	{Metallic sealing arrangements}	H10K 50/8423, H10K 59/8721
Q	H10K 50/8426	4	{Peripheral sealing arrangements, e.g. adhesives, sealants}	H10K 50/8426, H10K 59/8722
Q	H10K 50/8428	4	{Vertical spacers, e.g. arranged between the sealing arrangement and the OLED}	H10K 50/8428, H10K 59/8723
Q	H10K 50/844	3	Encapsulations	H10K 50/844, H10K 59/873
Q	H10K 50/8445	4	{multilayered coatings having a repetitive structure, e.g. having multiple organic-inorganic bilayers}	H10K 50/8445, H10K 59/8731
Q	H10K 50/846	3	{comprising getter material or desiccants}	H10K 50/846, H10K 59/874
Q	H10K 50/85	2	Arrangements for extracting light from the devices	H10K 50/85, H10K 59/875
Q	H10K 50/852	3	comprising a resonant cavity structure, e.g. Bragg reflector pair	H10K 50/852, H10K 59/876
Q	H10K 50/854	3	comprising scattering means	H10K 50/854, H10K 59/877

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Q	H10K 50/856	3	comprising reflective means	H10K 50/856, H10K 59/878
Q	H10K 50/858	3	comprising refractive means, e.g. lenses	H10K 50/858, H10K 59/879
Q	H10K 50/86	2	Arrangements for improving contrast, e.g. preventing reflection of ambient light	H10K 50/86, H10K 59/8791
Q	H10K 50/865	3	{comprising light absorbing layers, e.g. light-blocking layers}	H10K 50/865, H10K 59/8792
Q	H10K 50/868	2	{Arrangements for polarized light emission (H10K 50/86 takes precedence)}	H10K 50/868, H10K 59/8793
Q	H10K 50/87	2	Arrangements for heating or cooling	H10K 50/87, H10K 59/8794
N	H10K 50/88	2	Terminals, e.g. bond pads	
Q	H10K 59/00	0	Integrated devices, or assemblies of multiple devices, comprising at least one organic light-emitting element covered by group H10K 50/00	H10K 59/00, H10K 59/70, H10K 59/80, H10K 59/805, H10K 59/8051, H10K 59/80515, H10K 59/80516, H10K 59/80517, H10K 59/80518, H10K 59/8052, H10K 59/80521, H10K 59/80522, H10K 59/80523, H10K 59/80524, H10K 59/82, H10K 59/84, H10K 59/86, H10K 59/87, H10K 59/871, H10K 59/872, H10K 59/8721, H10K 59/8722, H10K 59/8723, H10K 59/873, H10K 59/8731, H10K 59/874, H10K 59/875, H10K 59/876, H10K 59/877, H10K 59/878, H10K 59/879, H10K 59/8791, H10K 59/8792, H10K 59/8793, H10K 59/8794, H10K 59/88
Q	H10K 59/10	1	OLED displays	H10K 59/10, H10K 59/19
Q	H10K 59/12	2	Active-matrix OLED [AMOLED] displays	H10K 59/12, H10K 59/131, H10K 59/1315
N	H10K 59/1201	3	{Manufacture or treatment}	
N	H10K 59/121	3	characterised by the geometry or disposition of pixel elements	
N	H10K 59/1213	4	{the pixel elements being TFTs}	
N	H10K 59/1216	4	{the pixel elements being capacitors}	

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N	H10K 59/122	3	Pixel-defining structures or layers, e.g. banks	
N	H10K 59/123	3	Connection of the pixel electrodes to the thin film transistors [TFT]	
N	H10K 59/124	3	Insulating layers formed between TFT elements and OLED elements	
N	H10K 59/125	3	including organic TFTs [OTFT]	
N	H10K 59/126	3	Shielding, e.g. light-blocking means over the TFTs	
N	H10K 59/127	3	comprising two substrates, e.g. display comprising OLED array and TFT driving circuitry on different substrates	
N	H10K 59/1275	4	{Electrical connections of the two substrates}	
N	H10K 59/128	3	comprising two independent displays, e.g. for emitting information from two major sides of the display	
N	H10K 59/129	3	Chiplets	
N	H10K 59/13	3	comprising photosensors that control luminance	
N	H10K 59/131	3	Interconnections, e.g. wiring lines or terminals	
N	H10K 59/1315	4	{comprising structures specially adapted for lowering the resistance}	
Q	H10K 59/17	2	Passive-matrix OLED displays	H10K 59/17, H10K 59/179, 59/1795
N	H10K 59/173	3	comprising banks or shadow masks	
N	H10K 59/176	3	comprising two independent displays, e.g. for emitting information from two major sides of the display	
N	H10K 59/179	3	Interconnections, e.g. wiring lines or terminals	
N	H10K 59/1795	4	{comprising structures specially adapted for lowering the resistance}	
N	H10K 59/18	2	Tiled displays	
N	H10K 59/19	2	Segment displays	
N	H10K 59/221	2	{Static displays, e.g. displaying permanent logos}	
N	H10K 59/30	1	Devices specially adapted for multicolour light emission	
N	H10K 59/32	2	Stacked devices having two or more layers, each emitting at different wavelengths	
N	H10K 59/35	2	comprising red-green-blue [RGB] subpixels	
N	H10K 59/351	3	{comprising more than three subpixels, e.g. red-green-blue-white [RGBW]}	
N	H10K 59/352	3	{the areas of the RGB subpixels being different}	
N	H10K 59/353	3	{characterised by the geometrical arrangement of the RGB subpixels}	
N	H10K 59/38	2	comprising colour filters or colour changing media [CCM]	
N	H10K 59/40	1	OLEDs integrated with touch screens	
N	H10K 59/50	1	OLEDs integrated with light modulating elements, e.g. with electrochromic elements, photochromic elements or liquid crystal elements	

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N	H10K 59/60	1	OLEDs integrated with inorganic light-sensitive elements, e.g. with inorganic solar cells or inorganic photodiodes	
Q	H10K 59/65	2	OLEDs integrated with inorganic image sensors	H10K 59/65, H10K 39/34
N	H10K 59/70	1	OLEDs integrated with inorganic light-emitting elements, e.g. with inorganic electroluminescent elements	
N	H10K 59/751	1	{Integrated devices having a three-dimensional layout, e.g. 3D ICs}	
N	H10K 59/771	1	{Integrated devices comprising a common active layer}	
N	H10K 59/80	1	Constructional details	
N	H10K 59/805	2	{Electrodes}	
N	H10K 59/8051	3	{Anodes}	
N	H10K 59/80515	4	{characterised by their shape}	
N	H10K 59/80516	4	{combined with auxiliary electrodes, e.g. ITO layer combined with metal lines}	
N	H10K 59/80517	4	{Multilayers, e.g. transparent multilayers}	
N	H10K 59/80518	4	{Reflective anodes, e.g. ITO combined with thick metallic layers}	
N	H10K 59/8052	3	{Cathodes}	
N	H10K 59/80521	4	{characterised by their shape}	
N	H10K 59/80522	4	{combined with auxiliary electrodes}	
N	H10K 59/80523	4	{Multilayers, e.g. opaque multilayers}	
N	H10K 59/80524	4	{Transparent cathodes, e.g. comprising thin metal layers}	
N	H10K 59/82	2	Interconnections, e.g. terminals (H10K 59/131, H10K 59/179 take precedence)	
N	H10K 59/84	2	Parallel electrical configurations of multiple OLEDs	
N	H10K 59/86	2	Series electrical configurations of multiple OLEDs	
N	H10K 59/87	2	{Passivation; Containers; Encapsulations}	
N	H10K 59/871	3	{Self-supporting sealing arrangements}	
N	H10K 59/872	4	{Containers}	
N	H10K 59/8721	4	{Metallic sealing arrangements}	
N	H10K 59/8722	4	{Peripheral sealing arrangements, e.g. adhesives, sealants}	
N	H10K 59/8723	4	{Vertical spacers, e.g. arranged between the sealing arrangement and the OLED}	
N	H10K 59/873	3	{Encapsulations}	
N	H10K 59/8731	4	{multilayered coatings having a repetitive structure, e.g. having multiple organic-inorganic bilayers}	
N	H10K 59/874	3	{including getter material or desiccant}	
N	H10K 59/875	2	{Arrangements for extracting light from the devices}	
N	H10K 59/876	3	{comprising a resonant cavity structure, e.g. Bragg reflector pair}	
N	H10K 59/877	3	{comprising scattering means}	
N	H10K 59/878	3	{comprising reflective means}	

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N	H10K 59/879	3	{comprising refractive means, e.g. lenses}	
N	H10K 59/8791	2	{Arrangements for improving contrast, e.g. preventing reflection of ambient light}	
N	H10K 59/8792	3	{comprising light absorbing layers, e.g. black layers}	
N	H10K 59/8793	2	{Arrangements for polarized light emission (H10K 59/8791 takes precedence)}	
N	H10K 59/8794	2	{Arrangements for heating and cooling}	
N	H10K 59/88	2	Dummy elements, i.e. elements having non-functional features	
Q	H10K 59/90	1	Assemblies of multiple devices comprising at least one organic light-emitting element	H10K 59/90, H10K 59/95
N	H10K 59/95	2	comprising only organic light-emitting elements	
N	H10K 65/00	0	Integrated devices, or assemblies of multiple devices, comprising at least one organic light-emitting element and at least one organic radiation-sensitive element, e.g. organic opto-couplers (organic image sensors integrated with organic light-emitting devices H10K 39/34; OLED displays integrated with photosensors H10K 59/13)	
Q	H10K 71/00	0	Manufacture or treatment specially adapted for the organic devices covered by this subclass	H10K 71/00, H10K 71/40, H10K 71/421, H10K 71/441
N	H10K 71/10	1	Deposition of organic active material	
N	H10K 71/12	2	using liquid deposition, e.g. spin coating	
N	H10K 71/125	3	{using electrolytic deposition e.g. in-situ electropolymerisation}	
N	H10K 71/13	3	using printing techniques, e.g. ink-jet printing or screen printing	
N	H10K 71/135	4	{using ink-jet printing}	
N	H10K 71/15	3	characterised by the solvent used	
N	H10K 71/16	2	using physical vapour deposition [PVD], e.g. vacuum deposition or sputtering	
N	H10K 71/162	3	{using laser ablation}	
N	H10K 71/164	3	{using vacuum deposition}	
N	H10K 71/166	3	{using selective deposition, e.g. using a mask}	
N	H10K 71/18	2	using non-liquid printing techniques, e.g. thermal transfer printing from a donor sheet	
N	H10K 71/191	2	{characterised by provisions for the orientation or alignment of the layer to be deposited}	
N	H10K 71/20	1	Changing the shape of the active layer in the devices, e.g. patterning	
N	H10K 71/211	2	{by selective transformation of an existing layer}	
N	H10K 71/221	2	{by lift-off techniques}	
N	H10K 71/231	2	{by etching of existing layers}	
N	H10K 71/233	3	{by photolithographic etching}	
N	H10K 71/236	3	{using printing techniques, e.g. applying the etch liquid using an ink jet printer}	
N	H10K 71/30	1	Doping active layers, e.g. electron transporting layers	
N	H10K 71/311	1	{Purifying organic semiconductor materials}	

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N	H10K 71/40	1	Thermal treatment, e.g. annealing in the presence of a solvent vapour	
N	H10K 71/421	2	{using coherent electromagnetic radiation, e.g. laser annealing}	
N	H10K 71/441	2	{in the presence of solvent vapors, e.g. solvent vapour annealing}	
N	H10K 71/50	1	Forming devices by joining two substrates together, e.g. lamination techniques	
N	H10K 71/60	1	Forming conductive regions or layers, e.g. electrodes	
N	H10K 71/611	2	{using printing deposition, e.g. ink jet printing}	
N	H10K 71/621	1	{Providing a shape to conductive layers, e.g. patterning or selective deposition}	
N	H10K 71/70	1	Testing, e.g. accelerated lifetime tests	
N	H10K 71/80	1	using temporary substrates	
N	H10K 71/811	1	{Controlling the atmosphere during processing (H10K 71/40 takes precedence)}	
N	H10K 71/821	1	{Patterning of a layer by embossing, e.g. stamping to form trenches in an insulating layer}	
N	H10K 71/831	1	{Aging}	
N	H10K 71/841	1	{Applying alternating current [AC] during manufacturing or treatment}	
N	H10K 71/851	1	{Division of substrate}	
N	H10K 71/861	1	{Repairing}	
N	H10K 77/00	0	Constructional details of devices covered by this subclass and not covered by groups H10K 10/80, H10K 30/80, H10K 50/80 or H10K 59/80	
N	H10K 77/10	1	Substrates, e.g. flexible substrates	
N	H10K 77/111	2	{Flexible substrates}	
Q	H10K 85/00	0	Organic materials used in the body or electrodes of devices covered by this subclass	H10K 85/00, H10K 85/50
N	H10K 85/10	1	Organic polymers or oligomers	
N	H10K 85/111	2	{comprising aromatic, heteroaromatic, or aryl chains, e.g. polyaniline, polyphenylene or polyphenylene vinylene}	
N	H10K 85/113	3	{Heteroaromatic compounds comprising sulfur or selen, e.g. polythiophene}	
N	H10K 85/1135	4	{Polyethylene dioxythiophene [PEDOT]; Derivatives thereof}	
N	H10K 85/114	3	{Poly-phenylenevinylene; Derivatives thereof}	
N	H10K 85/115	3	{Polyfluorene; Derivatives thereof}	
N	H10K 85/141	2	{comprising aliphatic or olefinic chains, e.g. poly N-vinylcarbazol, PVC or PTFE}	
N	H10K 85/143	3	{Polyacetylene; Derivatives thereof}	
N	H10K 85/146	3	{poly N-vinylcarbazol; Derivatives thereof}	
N	H10K 85/151	2	{Copolymers}	
N	H10K 85/154	2	{Ladder-type polymers}	
N	H10K 85/20	1	Carbon compounds, e.g. carbon nanotubes or fullerenes	
N	H10K 85/211	2	{Fullerenes, e.g. C ₆₀ }	

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N	H10K 85/215	3	{comprising substituents, e.g. PCBM}	
N	H10K 85/221	2	{Carbon nanotubes}	
N	H10K 85/225	3	{comprising substituents}	
N	H10K 85/30	1	Coordination compounds	
N	H10K 85/311	2	{Phthalocyanine}	
N	H10K 85/321	2	{Metal complexes comprising a group IIIA element, e.g. Tris (8-hydroxyquinoline) gallium [Gaq3]}	
Q	H10K 85/322	3	{comprising boron}	H10K85/322, H10K85/658
N	H10K 85/324	3	{comprising aluminium, e.g. Alq3}	
N	H10K 85/326	3	{comprising gallium}	
N	H10K 85/331	2	{Metal complexes comprising an iron-series metal, e.g. Fe, Co, Ni}	
N	H10K 85/341	2	{Transition metal complexes, e.g. Ru(II)polypyridine complexes (H10K 85/331 takes precedence)}	
N	H10K 85/342	3	{comprising iridium}	
N	H10K 85/344	3	{comprising ruthenium}	
N	H10K 85/346	3	{comprising platinum}	
N	H10K 85/348	3	{comprising osmium}	
N	H10K 85/351	2	{Metal complexes comprising lanthanides or actinides, e.g. comprising europium}	
N	H10K 85/361	2	{Polynuclear complexes, i.e. complexes comprising two or more metal centers}	
N	H10K 85/371	2	{Metal complexes comprising a group IB metal element, e.g. comprising copper, gold or silver}	
N	H10K 85/381	2	{Metal complexes comprising a group IIB metal element, e.g. comprising cadmium, mercury or zinc}	
N	H10K 85/40	1	Organosilicon compounds, e.g. TIPS pentacene	
N	H10K 85/50	1	Organic perovskites; Hybrid organic-inorganic perovskites [HOIP], e.g. CH ₃ NH ₃ PbI ₃	
N	H10K 85/60	1	Organic compounds having low molecular weight (H10K 85/10 - H10K 85/50 take precedence)	
N	H10K 85/611	2	{Charge transfer complexes}	
N	H10K 85/615	2	{Polycyclic condensed aromatic hydrocarbons, e.g. anthracene}	
N	H10K 85/621	3	{Aromatic anhydride or imide compounds, e.g. perylene tetra-carboxylic dianhydride or perylene tetracarboxylic di-imide}	
N	H10K 85/622	3	{containing four rings, e.g. pyrene}	
N	H10K 85/623	3	{containing five rings, e.g. pentacene}	
N	H10K 85/624	3	{containing six or more rings}	
N	H10K 85/625	3	{containing at least one aromatic ring having 7 or more carbon atoms, e.g. azulene}	
N	H10K 85/626	3	{containing more than one polycyclic condensed aromatic rings, e.g. bis-anthracene}	
N	H10K 85/631	2	{Amine compounds having at least two aryl rest on at least one amine-nitrogen atom, e.g. triphenylamine}	
N	H10K 85/633	3	{comprising polycyclic condensed aromatic hydrocarbons as substituents on the nitrogen atom}	

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N	H10K 85/636	3	{comprising heteroaromatic hydrocarbons as substituents on the nitrogen atom}	
N	H10K 85/649	2	{Aromatic compounds comprising a hetero atom}	
N	H10K 85/652	3	{Cyanine dyes}	
N	H10K 85/653	3	{comprising only oxygen as heteroatom}	
N	H10K 85/654	3	{comprising only nitrogen as heteroatom (H10K 85/652 takes precedence)}	
N	H10K 85/655	3	{comprising only sulfur as heteroatom}	
N	H10K 85/656	3	{comprising two or more different heteroatoms per ring (H10K 85/652 takes precedence)}	
N	H10K 85/6565	4	{Oxadiazole compounds}	
N	H10K 85/657	3	{Polycyclic condensed heteroaromatic hydrocarbons}	
N	H10K 85/6572	4	{comprising only nitrogen in the heteroaromatic polycondensed ring system, e.g. phenanthroline or carbazole}	
N	H10K 85/6574	4	{comprising only oxygen in the heteroaromatic polycondensed ring system, e.g. cumarine dyes}	
N	H10K 85/6576	4	{comprising only sulfur in the heteroaromatic polycondensed ring system, e.g. benzothiophene}	
N	H10K 85/658	2	{Organoboranes}	
N	H10K 85/701	1	{Langmuir Blodgett films}	
N	H10K 85/731	1	{Liquid crystalline materials}	
N	H10K 85/761	1	{Biomolecules or bio-macromolecules, e.g. proteins, chlorophyll, lipids or enzymes}	
N	H10K 85/791	1	{Starburst compounds}	
Q	H10K99/00	0	Subject matter not provided for in other groups of this subclass	H10K 99/00, H10K 77/00
Q	H10K 2101/00	0	Properties of the organic materials covered by group H10K 85/00	H10K 2101/00, H10K 2101/20, H10K 2101/25, H10K 2101/60, H10K 2101/70, H10K 2102/00
N	H10K 2101/10	1	Triplet emission	
N	H10K 2101/20	1	Delayed fluorescence emission	
N	H10K 2101/25	2	using exciplex	
N	H10K 2101/27	1	{Combination of fluorescent and phosphorescent emission}	
N	H10K 2101/30	1	Highest occupied molecular orbital [HOMO], lowest unoccupied molecular orbital [LUMO] or Fermi energy values	
N	H10K 2101/40	1	Interrelation of parameters between multiple constituent active layers or sublayers, e.g. HOMO values in adjacent layers	
N	H10K 2101/50	1	Oxidation-reduction potentials, e.g. excited state redox potentials	
N	H10K 2101/60	1	Up-conversion, e.g. by triplet-triplet annihilation	
N	H10K 2101/70	1	Down-conversion, e.g. by singlet fission	

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N	H10K 2101/80	1	{Composition varying spatially, e.g. having a spatial gradient}	
N	H10K 2101/90	1	{Multiple hosts in the emissive layer}	
N	H10K 2102/00	0	Constructional details relating to the organic devices covered by this subclass	
N	H10K 2102/10	1	Transparent electrodes, e.g. using graphene	
N	H10K 2102/101	2	{comprising transparent conductive oxides [TCO]}	
N	H10K 2102/102	3	{comprising tin oxides, e.g. fluorine-doped SnO ₂ }	
N	H10K 2102/103	3	{comprising indium oxides, e.g. ITO}	
N	H10K 2102/20	1	Metallic electrodes, e.g. using a stack of layers	
N	H10K 2102/301	1	{Details of OLEDs}	
N	H10K 2102/302	2	{of OLED structures}	
N	H10K 2102/3023	3	{Direction of light emission}	
N	H10K 2102/3026	4	{Top emission}	
N	H10K 2102/3031	4	{Two-side emission, e.g. transparent OLEDs [TOLED]}	
N	H10K 2102/3035	4	{Edge emission}	
N	H10K 2102/311	2	{Flexible OLED}	
N	H10K 2102/321	2	{Inverted OLED, i.e. having cathode between substrate and anode}	
N	H10K 2102/331	2	{Nanoparticles used in non-emissive layers, e.g. in packaging layer}	
N	H10K 2102/341	2	{Short-circuit prevention}	
N	H10K 2102/351	2	{Thickness}	
N	H10K 2102/361	2	{Temperature}	

*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 subclasses, 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} are 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 must 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.

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- 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.

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B. New, Modified or Deleted Warning(s)

SUBCLASS H10K - ORGANIC ELECTRIC SOLID-STATE DEVICES

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	H10K 10/00		Group H10K 10/00 is impacted by reclassification into groups H10K 10/10, H10K 10/40 and H10K 10/43. All groups listed in this Warning should be considered in order to perform a complete search.
N	H10K 10/10		Group H10K 10/10 is incomplete pending reclassification of documents from group H10K 10/00. Groups H10K 10/00 and H10K 10/10 should be considered in order to perform a complete search.
N	H10K 10/40		Groups H10K 10/40 and H10K 10/43 are incomplete pending reclassification of documents from group H10K 10/00. Groups H10K 10/00, H10K 10/40 and H10K 10/43 should be considered in order to perform a complete search.
N	H10K 10/80		Group H10K 10/80 is impacted by reclassification into group H10K 77/00. Groups H10K 10/80 and H10K 77/00 should be considered in order to perform a complete search.
N	H10K 10/82		Group H10K 10/82 is impacted by reclassification into group H10K 10/86. Groups H10K 10/82 and H10K 10/86 should be considered in order to perform a complete search.
N	H10K 10/86		Group H10K 10/86 is incomplete pending reclassification of documents from group H10K 10/82. Groups H10K 10/82 and H10K 10/86 should be considered in order to perform a complete search.
N	H10K 19/00		Group H10K 19/00 is incomplete pending reclassification of documents from groups H01L 25/04 and H01L 25/18. Group H10K 19/00 is also impacted by reclassification into group H10K 19/80. Groups H10K 19/00 and H10K 19/80 should be considered in order to perform a complete search.
N	H10K 19/201		Group H10K 19/201 is impacted by reclassification into groups H10K 39/401 and H10K 59/751. Groups H10K 19/201, H10K 39/401 and H10K 59/751 should be considered in order to perform a complete search.
N	H10K 19/202		Group H10K 19/202 is impacted by reclassification into groups H10K 39/501 and H10K 59/771. Groups H10K 19/202, H10K 39/501 and H10K 59/771 should be considered in order to perform a complete search.
N	H10K 19/80		Group H10K 19/80 is incomplete pending reclassification of documents from group H10K 19/00. Groups H10K 19/00 and H10K 19/80 should be considered in order to perform a complete search.
N	H10K 30/00		Group H10K 30/00 is impacted by reclassification into groups H10K 30/50, H10K 30/53 and H10K 30/60. Groups H10K 30/00, H10K 30/50, H10K 30/53 and H10K30/60 should be considered in order to perform a complete search.
N	H10K 30/10		Group H10K 30/10 is impacted by reclassification into groups H10K 30/50 and H10K 30/53. Groups H10K 30/10, H10K 30/50 and H10K 30/53 should be considered in order to perform a complete search.

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N	H10K 30/15		Group H10K 30/15 is impacted by reclassification into groups H10K 30/50 and H10K 30/53. Groups H10K 30/15, H10K 30/50 and H10K 30/53 should be considered in order to perform a complete search.
N	H10K 30/151		Group H10K 30/151 is impacted by reclassification into groups H10K 30/50 and H10K 30/53. Groups H10K 30/151, H10K 30/50 and H10K 30/53 should be considered in order to perform a complete search.
N	H10K 30/152		Group H10K 30/152 is impacted by reclassification into groups H10K 30/50 and H10K 30/53. Groups H10K 30/152, H10K 30/50 and H10K 30/53 should be considered in order to perform a complete search.
N	H10K 30/20		Group H10K 30/20 is impacted by reclassification into groups H10K 30/50 and H10K 30/53. Groups H10K 30/20, H10K 30/50 and H10K 30/53 should be considered in order to perform a complete search.
N	H10K 30/211		Group H10K 30/211 is impacted by reclassification into groups H10K 30/50 and H10K 30/53. Groups H10K 30/211, H10K 30/50 and H10K 30/53 should be considered in order to perform a complete search.
N	H10K 30/30		Group H10K 30/30 is impacted by reclassification into groups H10K 30/50 and H10K 30/53. Groups H10K 30/30, H10K 30/50 and H10K 30/53 should be considered in order to perform a complete search.
N	H10K 30/35		Group H10K 30/35 is impacted by reclassification into groups H10K 30/50 and H10K 30/53. Groups H10K 30/35, H10K 30/50 and H10K 30/53 should be considered in order to perform a complete search.
N	H10K 30/352		Group H10K 30/352 is impacted by reclassification into groups H10K 30/50 and H10K 30/53. Groups H10K 30/352, H10K 30/50 and H10K 30/53 should be considered in order to perform a complete search.
N	H10K 30/353		Group H10K 30/353 is impacted by reclassification into groups H10K 30/50 and H10K 30/53. Groups H10K 30/353, H10K 30/50 and H10K 30/53 should be considered in order to perform a complete search.
N	H10K 30/354		Group H10K 30/354 is impacted by reclassification into groups H10K 30/50 and H10K 30/53. Groups H10K 30/354, H10K 30/50 and H10K 30/53 should be considered in order to perform a complete search.
N	H10K 30/40		Group H10K 30/40 is impacted by reclassification into groups H10K 30/50 and H10K 30/53. Groups H10K 30/40, H10K 30/50 and H10K 30/53 should be considered in order to perform a complete search.
N	H10K 30/451		Group H10K 30/451 is impacted by reclassification into groups H10K 30/50 and H10K 30/53. Groups H10K 30/451, H10K 30/50 and H10K 30/53 should be considered in order to perform a complete search.
N	H10K 30/50		Groups H10K 30/50 and H10K 30/53 are incomplete pending reclassification of documents from groups H10K 30/00, H10K 30/10, H10K 30/15, H10K 30/151, H10K 30/152, H10K 30/20, H10K 30/211, H10K 30/30, H10K 30/35, H10K 30/352, H10K

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			30/353, H10K 30/354, H10K 30/40 and H10K 30/451. All groups listed in this Warning should be considered in order to perform a complete search.
N	H10K 30/60		Group H10K 30/60 is incomplete pending reclassification of documents from group H10K 30/00. Groups H10K 30/00 and H10K 30/60 should be considered in order to perform a complete search.
N	H10K 30/671		Group H10K 30/671 is impacted by reclassification into group H10K 50/401. Groups H10K 30/671 and H10K 50/401 should be considered in order to perform a complete search.
N	H10K 30/80		Group H10K 30/80 is impacted by reclassification into groups H10K 30/84-H10K 30/86, H10K 30/89 and H10K 77/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	H10K 30/84		Groups H10K 30/84-H10K 30/86 are incomplete pending reclassification of documents from group H10K 30/80. All groups listed in this Warning should be considered in order to perform a complete search.
N	H10K 30/89		Group H10K 30/89 is incomplete pending reclassification of documents from group H10K 30/80. Groups H10K 30/80 and H10K 30/89 should be considered in order to perform a complete search.
N	H10K 39/10		Group H10K 39/10 is incomplete pending reclassification of documents from groups H01L 25/04, H01L 25/16, H01L 25/162, H01L 25/165, H01L 25/167 and H01L 25/18. Group H10K 39/10 is also impacted by reclassification into groups H10K 39/12, H10K 39/15 and H10K 39/18. All groups listed in this Warning should be considered in order to perform a complete search.
N	H10K 39/12		Group H10K 39/12 is incomplete pending reclassification of documents from group H10K 39/10. Groups H10K 39/10 and H10K 39/12 should be considered in order to perform a complete search.
N	H10K 39/15		Group H10K 39/15 is incomplete pending reclassification of documents from group H10K 39/10. Groups H10K 39/10 and H10K 39/15 should be considered in order to perform a complete search.
N	H10K 39/18		Group H10K 39/18 is incomplete pending reclassification of documents from group H10K 39/10. Groups H10K 39/10 and H10K 39/18 should be considered in order to perform a complete search.
N	H10K 39/30		Group H10K 39/30 is impacted by reclassification into group H10K 39/38. Groups H10K 39/30 and H10K 39/38 should be considered in order to perform a complete search.
N	H10K 39/34		Group H10K 39/34 is incomplete pending reclassification of documents from group H10K 59/65. Groups H10K 59/65 and H10K 39/34 should be considered in order to perform a complete search.
N	H10K 39/38		Group H10K 39/38 is incomplete pending reclassification of documents from group H10K 39/30. Groups H10K 39/30 and H10K 39/38 should be considered in order to perform a complete search.

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N	H10K 39/401		Group H10K 39/401 is incomplete pending reclassification of documents from group H10K 19/201. Groups H10K 19/201 and H10K 39/401 should be considered in order to perform a complete search.
N	H10K 39/501		Group H10K 39/501 is incomplete pending reclassification of documents from group H10K 19/202. Groups H10K 19/202 and H10K 39/501 should be considered in order to perform a complete search.
N	H10K 39/601		Group H10K 39/601 is impacted by reclassification into group H10K 39/621. Groups H10K 39/601 and H10K 39/621 should be considered in order to perform a complete search.
N	H10K 39/621		Group H10K 39/621 is incomplete pending reclassification of documents from group H10K 39/601. Groups H10K 39/601 and H10K 39/621 should be considered in order to perform a complete search.
N	H10K 50/00		Group H10K 50/00 is impacted by reclassification into group H10K 50/10. Groups H10K 50/00 and H10K 50/10 should be considered in order to perform a complete search.
N	H10K 50/10		Group H10K 50/10 is incomplete pending reclassification of documents from group H10K 50/00. Groups H10K 50/00 and H10K 50/10 should be considered in order to perform a complete search.
N	H10K 50/17		Group H10K 50/17 is impacted by reclassification into group H10K 50/171. Groups H10K 50/17 and H10K 50/171 should be considered in order to perform a complete search.
N	H10K 50/171		Group H10K 50/171 is incomplete pending reclassification of documents from group H10K 50/17. Groups H10K 50/17 and H10K 50/171 should be considered in order to perform a complete search.
N	H10K 50/18		Group H10K 50/18 is impacted by reclassification into group H10K 50/181. Groups H10K 50/18 and H10K 50/181 should be considered in order to perform a complete search.
N	H10K 50/181		Group H10K 50/181 is incomplete pending reclassification of documents from group H10K 50/18. Groups H10K 50/18 and H10K 50/181 should be considered in order to perform a complete search.
N	H10K 50/401		Group H10K 50/401 is incomplete pending reclassification of documents from group H10K 30/671. Groups H10K 30/671 and H10K 50/401 should be considered in order to perform a complete search.
N	H10K 50/80		Group H10K 50/80 is impacted by reclassification into groups H10K 50/88, H10K 59/80 and H10K 77/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	H10K 50/805		Group H10K 50/805 is impacted by reclassification into group H10K 59/805. Groups H10K 50/805 and H10K 59/805 should be considered in order to perform a complete search.
N	H10K 50/81		Group H10K 50/81 is impacted by reclassification into groups H10K 50/816 and H10K 59/8051. Groups H10K 50/81, H10K 50/816 and H10K 59/8051 should be considered in order to perform a complete search.

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N	H10K 50/813		Group H10K 50/813 is impacted by reclassification into group H10K 59/80515. Groups H10K 50/813 and H10K 59/80515 should be considered in order to perform a complete search.
N	H10K 50/814		Group H10K 50/814 is impacted by reclassification into group H10K 59/80516. Groups H10K 50/814 and H10K 59/80516 should be considered in order to perform a complete search.
N	H10K 50/816		Group H10K 50/816 is incomplete pending reclassification of documents from group H10K 50/81. Group H10K 50/816 is also impacted by reclassification into group H10K 59/80517. Groups H10K 50/81, H10K 50/816 and H10K 59/80517 should be considered in order to perform a complete search.
N	H10K 50/818		Group H10K 50/818 is impacted by reclassification into group H10K 59/80518. Groups H10K 50/818 and H10K 59/80518 should be considered in order to perform a complete search.
N	H10K 50/82		Group H10K 50/82 is impacted by reclassification into group H10K 50/826 and H10K 59/8052. Groups H10K 50/82, H10K 50/826 and H10K 59/8052 should be considered in order to perform a complete search.
N	H10K 50/822		Group H10K 50/822 is impacted by reclassification into group H10K 59/80521. Groups H10K 50/822 and H10K 59/80521 should be considered in order to perform a complete search.
N	H10K 50/824		Group H10K 50/824 is impacted by reclassification into group H10K 59/80522. Groups H10K 50/824 and H10K 59/80522 should be considered in order to perform a complete search.
N	H10K 50/826		Group H10K 50/826 is incomplete pending reclassification of documents from group H10K 50/82. Group H10K 50/826 is also impacted by reclassification into group H10K 59/80523. Groups H10K 50/82, H10K 50/826 and H10K 59/80523 should be considered in order to perform a complete search.
N	H10K 50/828		Group H10K 50/828 is impacted by reclassification into group H10K 59/80524. Groups H10K 50/828 and H10K 59/80524 should be considered in order to perform a complete search.
N	H10K 50/84		Group H10K 50/84 is impacted by reclassification into group H10K 59/87. Groups H10K 50/84 and H10K 59/87 should be considered in order to perform a complete search.
N	H10K 50/841		Group H10K 50/841 is impacted by reclassification into groups H10K 50/842, H10K 59/871 and H10K 59/872. All groups listed in this Warning should be considered in order to perform a complete search.
N	H10K 50/842		Group H10K 50/842 is incomplete pending reclassification of documents from group H10K 50/841. Groups H10K 50/841 and H10K 50/842 should be considered in order to perform a complete search.
N	H10K 50/8423		Group H10K 50/8423 is impacted by reclassification into group H10K 59/8721. Groups H10K 50/8423 and H10K 59/8721 should be considered in order to perform a complete search.
N	H10K 50/8426		Group H10K 50/8426 is impacted by reclassification into group H10K 59/8722. Groups H10K 50/8426 and H10K 59/8722 should be considered in order to perform a complete search.

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N	H10K 50/8428		Group H10K 50/8428 is impacted by reclassification into group H10K 59/8723. Groups H10K 50/8428 and H10K 59/8723 should be considered in order to perform a complete search.
N	H10K 50/844		Group H10K 50/844 is impacted by reclassification into group H10K 59/873. Groups H10K 50/844 and H10K 59/873 should be considered in order to perform a complete search.
N	H10K 50/8445		Group H10K 50/8445 is impacted by reclassification into group H10K 59/8731. Groups H10K 50/8445 and H10K 59/8731 should be considered in order to perform a complete search.
N	H10K 50/846		Group H10K 50/846 is impacted by reclassification into group H10K 59/874. Groups H10K 50/846 and H10K 59/874 should be considered in order to perform a complete search.
N	H10K 50/85		Group H10K 50/85 is impacted by reclassification into group H10K 59/875. Groups H10K 50/85 and H10K 59/875 should be considered in order to perform a complete search.
N	H10K 50/852		Group H10K 50/852 is impacted by reclassification into group H10K 59/876. Groups H10K 50/852 and H10K 59/876 should be considered in order to perform a complete search.
N	H10K 50/854		Group H10K 50/854 is impacted by reclassification into group H10K 59/877. Groups H10K 50/854 and H10K 59/877 should be considered in order to perform a complete search.
N	H10K 50/856		Group H10K 50/856 is impacted by reclassification into group H10K 59/878. Groups H10K 50/856 and H10K 59/878 should be considered in order to perform a complete search.
N	H10K 50/858		Group H10K 50/858 is impacted by reclassification into group H10K 59/879. Groups H10K 50/858 and H10K 59/879 should be considered in order to perform a complete search.
N	H10K 50/86		Group H10K 50/86 is impacted by reclassification into group H10K 59/8791. Groups H10K 50/86 and H10K 59/8791 should be considered in order to perform a complete search.
N	H10K 50/865		Group H10K 50/865 is impacted by reclassification into group H10K 59/8792. Groups H10K 50/865 and H10K 59/8792 should be considered in order to perform a complete search.
N	H10K 50/868		Group H10K 50/868 is impacted by reclassification into group H10K 59/8793. Groups H10K 50/868 and H10K 59/8793 should be considered in order to perform a complete search.
N	H10K 50/87		Group H10K 50/87 is impacted by reclassification into group H10K 59/8794. Groups H10K 50/87 and H10K 59/8794 should be considered in order to perform a complete search.
N	H10K 50/88		Group H10K 50/88 is incomplete pending reclassification of documents from group H10K 50/80. Groups H10K 50/80 and H10K 50/88 should be considered in order to perform a complete search.
N	H10K 59/00		Group H10K 59/00 is impacted by reclassification into groups H10K 59/70 and H10K 59/80-H10K 59/88. Groups H10K 59/00, H10K 59/70 and H10K 59/80-H10K 59/88 should be considered in order to perform a complete search.
N	H10K 59/10		Group H10K 59/10 is impacted by reclassification into group H10K 59/19. Groups H10K 59/10 and H10K 59/19 should be considered in order to perform a complete search.

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N	H10K 59/12		Group H10K 59/12 is impacted by reclassification into groups H10K 59/131 and H10K 59/1315. Groups H10K 59/12, H10K 59/131 and H10K 59/1315 should be considered in order to perform a complete search.
N	H10K 59/131		Group H10K 59/131 is incomplete pending reclassification of documents from group H10K 59/12. Groups H10K 59/12 and H10K 59/131 should be considered in order to perform a complete search.
N	H10K 59/1315		Group H10K 59/1315 is incomplete pending reclassification of documents from group H10K 59/12. Groups H10K 59/12 and H10K 59/1315 should be considered in order to perform a complete search.
N	H10K 59/17		Group H10K 59/17 is impacted by reclassification into groups H10K 59/179 and H10K 59/1795. Groups H10K 59/17, H10K 59/179 and H10K 59/1795 should be considered in order to perform a complete search.
N	H10K 59/179		Group H10K 59/179 is incomplete pending reclassification of documents from group H10K 59/17. Groups H10K 59/17 and H10K 59/179 should be considered in order to perform a complete search.
N	H10K 59/1795		Group H10K 59/1795 is incomplete pending reclassification of documents from group H10K 59/17. Groups H10K 59/17 and H10K 59/1795 should be considered in order to perform a complete search.
N	H10K 59/19		Group H10K 59/19 is incomplete pending reclassification of documents from group H10K 59/10. Groups H10K 59/10 and H10K 59/19 should be considered in order to perform a complete search.
N	H10K 59/65		Group H10K 59/65 is impacted by reclassification into group H10K 39/34. Groups H10K 59/65 and H10K 39/34 should be considered in order to perform a complete search.
N	H10K 59/70		Group H10K 59/70 is incomplete pending reclassification of documents from group H10K 59/00. Groups H10K 59/00 and H10K 59/70 should be considered in order to perform a complete search.
N	H10K 59/751		Group H10K 59/751 is incomplete pending reclassification of documents from group H10K 19/201. Groups H10K 19/201 and H10K 59/751 should be considered in order to perform a complete search.
N	H10K 59/771		Group H10K 59/771 is incomplete pending reclassification of documents from group H10K 19/202. Groups H10K 19/202 and H10K 59/771 should be considered in order to perform a complete search.
N	H10K 59/80		Group H10K 59/80 is incomplete pending reclassification of documents from groups H10K 50/80 and H10K 59/00. Groups H10K 50/80, H10K 59/00 and H10K 59/80 should be considered in order to perform a complete search.
N	H10K 59/805		Group H10K 59/805 is incomplete pending reclassification of documents from groups H10K 50/805 and H10K 59/00. Groups H10K 50/805, H10K 59/00 and H10K 59/805 should be considered in order to perform a complete search.

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N	H10K 59/8051		Group H10K 59/8051 is incomplete pending reclassification of documents from groups H10K 50/81 and H10K 59/00. Groups H10K 50/81, H10K 59/00 and H10K 59/8051 should be considered in order to perform a complete search.
N	H10K 59/80515		Group H10K 59/80515 is incomplete pending reclassification of documents from groups H10K 50/813 and H10K 59/00. Groups H10K 50/813, H10K 59/00 and H10K 59/80515 should be considered in order to perform a complete search.
N	H10K 59/80516		Group H10K 59/80516 is incomplete pending reclassification of documents from groups H10K 50/814 and H10K 59/00. Groups H10K 50/814, H10K 59/00 and H10K 59/80516 should be considered in order to perform a complete search.
N	H10K 59/80517		Group H10K 59/80517 is incomplete pending reclassification of documents from groups H10K 50/816 and H10K 59/00. Groups H10K 50/816, H10K 59/00 and H10K 59/80517 should be considered in order to perform a complete search.
N	H10K 59/80518		Group H10K 59/80518 is incomplete pending reclassification of documents from groups H10K 50/818 and H10K 59/00. Groups H10K 50/818, H10K 59/00 and H10K 59/80518 should be considered in order to perform a complete search.
N	H10K 59/8052		Group H10K 59/8052 is incomplete pending reclassification of documents from groups H10K 50/82 and H10K 59/00. Groups H10K 50/82, H10K 59/00 and H10K 59/8052 should be considered in order to perform a complete search.
N	H10K 59/80521		Group H10K 59/80521 is incomplete pending reclassification of documents from groups H10K 50/822 and H10K 59/00. Groups H10K 50/822, H10K 59/00 and H10K 59/80521 should be considered in order to perform a complete search.
N	H10K 59/80522		Group H10K 59/80522 is incomplete pending reclassification of documents from groups H10K 50/824 and H10K 59/00. Groups H10K 50/824, H10K 59/00 and H10K 59/80522 should be considered in order to perform a complete search.
N	H10K 59/80523		Group H10K 59/80523 is incomplete pending reclassification of documents from groups H10K 50/826 and H10K 59/00. Groups H10K 50/826, H10K 59/00 and H10K 59/80523 should be considered in order to perform a complete search.
N	H10K 59/80524		Group H10K 59/80524 is incomplete pending reclassification of documents from groups H10K 50/828 and H10K 59/00. Groups H10K 50/828, H10K 59/00 and H10K 59/80524 should be considered in order to perform a complete search.
N	H10K 59/82		Group H10K 59/82 is incomplete pending reclassification of documents from group H10K 59/00. Groups H10K 59/00 and H10K 59/82 should be considered in order to perform a complete search.
N	H10K 59/84		Group H10K 59/84 is incomplete pending reclassification of documents from group H10K 59/00. Groups H10K 59/00 and H10K 59/84 should be considered in order to perform a complete search.
N	H10K 59/86		Group H10K 59/86 is incomplete pending reclassification of documents from group H10K 59/00. Groups H10K 59/00 and H10K 59/86 should be considered in order to perform a complete search.

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N	H10K 59/87		Group H10K 59/87 is incomplete pending reclassification of documents from groups H10K 50/84 and H10K 59/00. Groups H10K 50/84, H10K 59/00 and H10K 59/87 should be considered in order to perform a complete search.
N	H10K 59/871		Groups H10K 59/871 and H10K 59/872 are incomplete pending reclassification of documents from groups H10K 50/841 and H10K 59/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	H10K 59/8721		Group H10K 59/8721 is incomplete pending reclassification of documents from groups H10K 50/8423 and H10K 59/00. Groups H10K 50/8423, H10K 59/00 and H10K 59/8721 should be considered in order to perform a complete search.
N	H10K 59/8722		Group H10K 59/8722 is incomplete pending reclassification of documents from groups H10K 50/8426 and H10K 59/00. Groups H10K 50/8426, H10K 59/00 and H10K 59/8722 should be considered in order to perform a complete search.
N	H10K 59/8723		Group H10K 59/8723 is incomplete pending reclassification of documents from groups H10K 50/8428 and H10K 59/00. Groups H10K 50/8428, H10K 59/00 and H10K 59/8723 should be considered in order to perform a complete search.
N	H10K 59/873		Group H10K 59/873 is incomplete pending reclassification of documents from groups H10K 50/844 and H10K 59/00. Groups H10K 50/844, H10K 59/00 and H10K 59/873 should be considered in order to perform a complete search.
N	H10K 59/8731		Group H10K 59/8731 is incomplete pending reclassification of documents from groups H10K 50/8445 and H10K 59/00. Groups H10K 50/8445, H10K 59/00 and H10K 59/8731 should be considered in order to perform a complete search.
N	H10K 59/874		Group H10K 59/874 is incomplete pending reclassification of documents from groups H10K 50/846 and H10K 59/00. Groups H10K 50/846, H10K 59/00 and H10K 59/874 should be considered in order to perform a complete search.
N	H10K 59/875		Group H10K 59/875 is incomplete pending reclassification of documents from groups H10K 50/85 and H10K 59/00. Groups H10K 50/85, H10K 59/00 and H10K 59/875 should be considered in order to perform a complete search.
N	H10K 59/876		Group H10K 59/876 is incomplete pending reclassification of documents from groups H10K 50/852 and H10K 59/00. Groups H10K 50/852, H10K 59/00 and H10K 59/876 should be considered in order to perform a complete search.
N	H10K 59/877		Group H10K 59/877 is incomplete pending reclassification of documents from groups H10K 50/854 and H10K 59/00. Groups H10K 50/854, H10K 59/00 and H10K 59/877 should be considered in order to perform a complete search.
N	H10K 59/878		Group H10K 59/878 is incomplete pending reclassification of documents from groups H10K 50/856 and H10K 59/00. Groups H10K 50/856, H10K 59/00 and H10K 59/878 should be considered in order to perform a complete search.
N	H10K 59/879		Group H10K 59/879 is incomplete pending reclassification of documents from groups H10K 50/858 and H10K 59/00. Groups H10K 50/858, H10K 59/00 and H10K 59/879 should be considered in order to perform a complete search.

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N	H10K 59/8791		Group H10K 59/8791 is incomplete pending reclassification of documents from groups H10K 50/86 and H10K 59/00. Groups H10K 50/86, H10K 59/00 and H10K 59/8791 should be considered in order to perform a complete search.
N	H10K 59/8792		Group H10K 59/8792 is incomplete pending reclassification of documents from groups H10K 50/865 and H10K 59/00. Groups H10K 50/865, H10K 59/00 and H10K 59/8792 should be considered in order to perform a complete search.
N	H10K 59/8793		Group H10K 59/8793 is incomplete pending reclassification of documents from groups H10K 50/868 and H10K 59/00. Groups H10K 50/868, H10K 59/00 and H10K 59/8793 should be considered in order to perform a complete search.
N	H10K 59/8794		Group H10K 59/8794 is incomplete pending reclassification of documents from groups H10K 50/87 and H10K 59/00. Groups H10K 50/87, H10K 59/00 and H10K 59/8794 should be considered in order to perform a complete search.
N	H10K 59/88		Group H10K 59/88 is incomplete pending reclassification of documents from group H10K 59/00. Groups H10K 59/00 and H10K 59/88 should be considered in order to perform a complete search.
N	H10K 59/90		Group H10K 59/90 is incomplete pending reclassification of documents from groups H01L 25/04, H01L 25/16, H01L 25/162, H01L 25/165, H01L 25/167 and H01L 25/18. Group H10K 59/90 is also impacted by reclassification into group H10K 59/95. All groups listed in this Warning should be considered in order to perform a complete search.
N	H10K 59/95		Group H10K 59/95 is incomplete pending reclassification of documents from groups H01L 25/04, H01L 25/16, H01L 25/162, H01L 25/165, H01L 25/167, H01L 25/18 and H10K 59/90. All groups listed in this Warning should be considered in order to perform a complete search.
N	H10K 65/00		Group H10K 65/00 is incomplete pending reclassification of documents from groups H01L 25/04 and H01L 25/18. All groups listed in this Warning should be considered in order to perform a complete search.
N	H10K 71/00		Group H10K 71/00 is impacted by reclassification into groups H10K 71/40, H10K 71/421 and H10K 71/441. All groups listed in this Warning should be considered in order to perform a complete search.
N	H10K 71/40		Groups H10K 71/40, H10K 71/421 and H10K 71/441 are incomplete pending reclassification of documents from group H10K 71/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	H10K 77/00		Group H10K 77/00 is incomplete pending reclassification of documents from groups H10K 10/80, H10K 30/80, H10K 50/80 and H10K 99/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	H10K 85/00		Group H10K 85/00 is impacted by reclassification into group H10K 85/50. Groups H10K 85/00 and H10K 85/50 should be considered in order to perform a complete search.

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N	H10K 85/322		Group H10K 85/322 is impacted by reclassification into group H10K 85/658. Groups H10K 85/322 and H10K 85/658 should be considered in order to perform a complete search.
N	H10K 85/50		Group H10K 85/50 is incomplete pending reclassification of documents from group H10K 85/00. Groups H10K 85/00 and H10K 85/50 should be considered in order to perform a complete search.
N	H10K 85/658		Group H10K 85/658 is incomplete pending reclassification of documents from group H10K 85/322. Groups H10K 85/322 and H10K 85/658 should be considered in order to perform a complete search.
N	H10K 99/00		Group H10K 99/00 is impacted by reclassification into group H10K 77/00. Groups H10K 99/00 and H10K 77/00 should be considered in order to perform a complete search.
N	H10K 2101/00		Group H10K 2101/00 is impacted by reclassification into groups H10K 2101/20-H10K 2101/25, H10K 2101/60, H10K 2101/70 and H10K 2102/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	H10K 2101/20		Groups H10K 2101/20 and H10K 2101/25 are incomplete pending reclassification of documents from group H10K 2101/00. Groups H10K 2101/00, H10K 2101/20 and H10K 2101/25 should be considered in order to perform a complete search.
N	H10K 2101/60		Group H10K 2101/60 is incomplete pending reclassification of documents from group H10K 2101/00. Groups H10K 2101/00 and H10K 2101/60 should be considered in order to perform a complete search.
N	H10K 2101/70		Group H10K 2101/70 is incomplete pending reclassification of documents from group H10K 2101/00. Groups H10K 2101/00 and H10K 2101/70 should be considered in order to perform a complete search.
N	H10K 2102/00		Group H10K 2102/00 is incomplete pending reclassification of documents from group H10K 2101/00. Groups H10K 2101/00 and H10K 2102/00 should be considered in order to perform a complete search.

*N = new warning, M = modified warning, D = deleted warning

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

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C. New, Modified or Deleted Note(s)

SUBCLASS H01L - SEMICONDUCTOR DEVICES;ELECTRIC SOLID STATE DEVICES NOT OTHERWISE PROVIDED FOR (use of semiconductor devices for measuring G01; resistors in general H01C; magnets, inductors, transformers H01F; capacitors in general H01G; electrolytic devices H01G 9/00; batteries, accumulators H01M; waveguides, resonators, or lines of the waveguide type H01P; line connectors, current collectors H01R; stimulated-emission devices H01S; electromechanical resonators H03H; loudspeakers, microphones, gramophone pick-ups or like acoustic electromechanical transducers H04R; electric light sources in general H05B; printed circuits, hybrid circuits, casings or constructional details of electrical apparatus, manufacture of assemblages of electrical components H05K; use of semiconductor devices in circuits having a particular application, see the subclass for the application)

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
D	H01L 51/0032	<p>1. This group only covers the selection of organic materials for their electrical or other properties insofar as they are specific for their use in devices covered by the group H01L 51/00.</p> <p>For the materials <u>per se</u>, <u>see</u> the relevant subclasses.</p> <p>Attention is drawn to the following places:</p> <ul style="list-style-type: none"> • organic materials in general C07C, C07D, C07F, C08L; • organic materials as electrical conductors H01B 1/12; • organic materials as electrical insulators H01B 3/18 	<u>Delete</u> : The entire Note.

SUBCLASS H10K - ORGANIC ELECTRIC SOLID-STATE DEVICES

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
N	H10K		<p>1. This subclass <u>covers</u>:</p> <ul style="list-style-type: none"> • individual organic electric solid-state devices, i.e. electric solid-state devices comprising organic material in the active part;

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			<ul style="list-style-type: none"> • integrated devices, or assemblies of multiple devices, comprising such elements. <p>2. This subclass <u>does not cover</u>:</p> <ul style="list-style-type: none"> • organic electronic memory devices, which are covered by subclass H10B; • organic thermoelectric, piezoelectric, electrostrictive or magnetostrictive devices, which are covered by subclass H10N; • organic resistors without a potential-jump barrier or surface barrier and not specially adapted for integrated devices, which are covered by subclass H01C; • organic capacitors without a potential-jump barrier or surface barrier and not specially adapted for integrated devices, which are covered by subclass H01G. <p>3. In this subclass, it is desirable to add the indexing codes of groups H10K 2101/00-H10K 2102/00.</p>
N	H10K 30/00		<p>This group <u>covers</u> organic semiconductor devices sensitive to radiation insofar as these devices are specially adapted for either:</p> <ul style="list-style-type: none"> • the conversion of the radiation energy into electrical energy; or • the control of electrical energy by such radiation.
N	H10K 39/00		<p>This group only <u>covers</u> devices that are sensitive to infrared radiation, light, electromagnetic radiation of shorter wavelength or corpuscular radiation.</p>

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N	H10K 85/00		This group only <u>covers</u> organic materials for their electrical or other properties, insofar as they are specially adapted for the devices covered by this subclass.
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*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.

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D. New, Modified or Deleted Guidance Heading(s)**SUBCLASS H10K - ORGANIC ELECTRIC SOLID-STATE DEVICES**

<u>Type*</u>	<u>Location</u>	<u>Old Guidance Heading</u>	<u>New/Modified Guidance Heading</u>
N	H10K 10/00 – H10K 19/00		<u>Organic devices specially adapted for rectifying, amplifying, oscillating or switching</u>
N	H10K 30/00 – H10K 39/00		<u>Organic radiation-sensitive devices</u>
N	H10K 50/00 – H10K65/00		<u>Organic light-emitting devices</u>
N	H10K 71/00 – H10K85/00		<u>Manufacture or treatment; Constructional details</u>
N	H10K2101/00 – H10K2101/00		<u>Indexing scheme associated with group H10K 85/00, relating to properties of organic materials</u>
N	H10K2102/00 – H10K2102/00		<u>Indexing scheme associated with groups H10K 10/80, H10K 30/80, H10K 50/80, H10K 59/80 and H10K 77/00, relating to constructional details</u>

*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.”

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2. B. DEFINITIONS QUICK FIX

<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
H01L 27/28			<u>Delete:</u> The entire Definition.
H01L 27/281			<u>Delete:</u> The entire Definition.
H01L 27/283			<u>Delete:</u> The entire Definition.
H01L 27/285			<u>Delete:</u> The entire Definition.
H01L 27/286			<u>Delete:</u> The entire Definition.
H01L 27/288			<u>Delete:</u> The entire Definition.
H01L 27/30			<u>Delete:</u> The entire Definition.
H01L 27/301			<u>Delete:</u> The entire Definition.
H01L 27/302			<u>Delete:</u> The entire Definition.
H01L 27/304			<u>Delete:</u> The entire Definition.
H01L 27/305			<u>Delete:</u> The entire Definition.
H01L 27/307			<u>Delete:</u> The entire Definition.
H01L 27/308			<u>Delete:</u> The entire Definition.
H01L 27/32			<u>Delete:</u> The entire Definition.
H01L 27/3202			<u>Delete:</u> The entire Definition.
H01L 27/3204			<u>Delete:</u> The entire Definition.
H01L 27/3206			<u>Delete:</u> The entire Definition.
H01L 27/3209			<u>Delete:</u> The entire Definition.
H01L 27/3211			<u>Delete:</u> The entire Definition.
H01L 27/3213			<u>Delete:</u> The entire Definition.
H01L 27/3216			<u>Delete:</u> The entire Definition.
H01L 27/3218			<u>Delete:</u> The entire Definition.
H01L 27/322			<u>Delete:</u> The entire Definition.
H01L 27/3223			<u>Delete:</u> The entire Definition.
H01L 27/3225			<u>Delete:</u> The entire Definition.
H01L 27/3227			<u>Delete:</u> The entire Definition.
H01L 27/323			<u>Delete:</u> The entire Definition.
H01L 27/3232			<u>Delete:</u> The entire Definition.
H01L 27/3234			<u>Delete:</u> The entire Definition.
H01L 27/3237			<u>Delete:</u> The entire Definition.
H01L 27/3239			<u>Delete:</u> The entire Definition.
H01L 27/3241			<u>Delete:</u> The entire Definition.
H01L 27/3244			<u>Delete:</u> The entire Definition.
H01L 27/3246			<u>Delete:</u> The entire Definition.
H01L 27/3248			<u>Delete:</u> The entire Definition.
H01L 27/3251			<u>Delete:</u> The entire Definition.
H01L 27/3253			<u>Delete:</u> The entire Definition.
H01L 27/3255			<u>Delete:</u> The entire Definition.
H01L 27/3258			<u>Delete:</u> The entire Definition.
H01L 27/326			<u>Delete:</u> The entire Definition.
H01L 27/3262			<u>Delete:</u> The entire Definition.
H01L 27/3265			<u>Delete:</u> The entire Definition.
H01L 27/3267			<u>Delete:</u> The entire Definition.

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H01L 27/3269		Delete: The entire Definition.
H01L 27/3272		Delete: The entire Definition.
H01L 27/3274		Delete: The entire Definition.
H01L 27/3276		Delete: The entire Definition.
H01L 27/3279		Delete: The entire Definition.
H01L 27/3281		Delete: The entire Definition.
H01L 27/3283		Delete: The entire Definition.
H01L 27/3286		Delete: The entire Definition.
H01L 27/3288		Delete: The entire Definition.
H01L 27/329		Delete: The entire Definition.
H01L 27/3293		Delete: The entire Definition.
H01L 51/00		Delete: The entire Definition.
H01L 51/0001		Delete: The entire Definition.
H01L 51/0004		Delete: The entire Definition.
H01L 51/0005		Delete: The entire Definition.
H01L 51/0006		Delete: The entire Definition.
H01L 51/0008		Delete: The entire Definition.
H01L 51/0009		Delete: The entire Definition.
H01L 51/0011		Delete: The entire Definition.
H01L 51/0013		Delete: The entire Definition.
H01L 51/0018		Delete: The entire Definition.
H01L 51/002		Delete: The entire Definition.
H01L 51/0022		Delete: The entire Definition.
H01L 51/0024		Delete: The entire Definition.
H01L 51/0027		Delete: The entire Definition.
H01L 51/0029		Delete: The entire Definition.
H01L 51/003		Delete: The entire Definition.
H01L 51/0032		Delete: The entire Definition.
H01L 51/0035		Delete: The entire Definition.
H01L 51/0036		Delete: The entire Definition.
H01L 51/0038		Delete: The entire Definition.
H01L 51/0041		Delete: The entire Definition.
H01L 51/0045		Delete: The entire Definition.
H01L 51/0047		Delete: The entire Definition.
H01L 51/005		Delete: The entire Definition.
H01L 51/0059		Delete: The entire Definition.
H01L 51/0062		Delete: The entire Definition.
H01L 51/0064		Delete: The entire Definition.
H01L 51/0067		Delete: The entire Definition.
H01L 51/0069		Delete: The entire Definition.
H01L 51/0075		Delete: The entire Definition.
H01L 51/0076		Delete: The entire Definition.
H01L 51/0078		Delete: The entire Definition.
H01L 51/009		Delete: The entire Definition.
H01L 51/0094		Delete: The entire Definition.
H01L 51/0096		Delete: The entire Definition.
H01L 51/05		Delete: The entire Definition.
H01L 51/0541		Delete: The entire Definition.
H01L 51/0545		Delete: The entire Definition.
H01L 51/0554		Delete: The entire Definition.
H01L 51/057		Delete: The entire Definition.
H01L 51/0591		Delete: The entire Definition.

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H01L 51/0595		<u>Delete:</u> The entire Definition.
H01L 51/10		<u>Delete:</u> The entire Definition.
H01L 51/42		<u>Delete:</u> The entire Definition.
H01L 51/4206		<u>Delete:</u> The entire Definition.
H01L 51/4213		<u>Delete:</u> The entire Definition.
H01L 51/422		<u>Delete:</u> The entire Definition.
H01L 51/4226		<u>Delete:</u> The entire Definition.
H01L 51/424		<u>Delete:</u> The entire Definition.
H01L 51/4246		<u>Delete:</u> The entire Definition.
H01L 51/4253		<u>Delete:</u> The entire Definition.
H01L 51/4273		<u>Delete:</u> The entire Definition.
H01L 51/428		<u>Delete:</u> The entire Definition.
H01L 51/445		<u>Delete:</u> The entire Definition.
H01L 51/447		<u>Delete:</u> The entire Definition.
H01L 51/448		<u>Delete:</u> The entire Definition.
H01L 51/50		<u>Delete:</u> The entire Definition.
H01L 51/5004		<u>Delete:</u> The entire Definition.
H01L 51/5008		<u>Delete:</u> The entire Definition.
H01L 51/5012		<u>Delete:</u> The entire Definition.
H01L 51/5016		<u>Delete:</u> The entire Definition.
H01L 51/502		<u>Delete:</u> The entire Definition.
H01L 51/5024		<u>Delete:</u> The entire Definition.
H01L 51/5028		<u>Delete:</u> The entire Definition.
H01L 51/5032		<u>Delete:</u> The entire Definition.
H01L51/5036		<u>Delete:</u> The entire Definition.
H01L51/504		<u>Delete:</u> The entire Definition.
H01L 51/5044		<u>Delete:</u> The entire Definition.
H01L 51/5048		<u>Delete:</u> The entire Definition.
H01L 51/5056		<u>Delete:</u> The entire Definition.
H01L 51/506		<u>Delete:</u> The entire Definition.
H01L 51/5064		<u>Delete:</u> The entire Definition.
H01L 51/5068		<u>Delete:</u> The entire Definition.
H01L 51/5072		<u>Delete:</u> The entire Definition.
H01L 51/5076		<u>Delete:</u> The entire Definition.
H01L 51/508		<u>Delete:</u> The entire Definition.
H01L 51/5084		<u>Delete:</u> The entire Definition.
H01L 51/5088		<u>Delete:</u> The entire Definition.
H01L 51/5092		<u>Delete:</u> The entire Definition.
H01L 51/5096		<u>Delete:</u> The entire Definition.
H01L 51/52		<u>Delete:</u> The entire Definition.
H01L 51/5203		<u>Delete:</u> The entire Definition.
H01L 51/5206		<u>Delete:</u> The entire Definition.
H01L 51/5209		<u>Delete:</u> The entire Definition.
H01L 51/5212		<u>Delete:</u> The entire Definition.
H01L 51/5215		<u>Delete:</u> The entire Definition.
H01L 51/5218		<u>Delete:</u> The entire Definition.
H01L 51/5221		<u>Delete:</u> The entire Definition.
H01L 51/5225		<u>Delete:</u> The entire Definition.
H01L 51/5228		<u>Delete:</u> The entire Definition.
H01L 51/5231		<u>Delete:</u> The entire Definition.
H01L 51/5234		<u>Delete:</u> The entire Definition.
H01L 51/5237		<u>Delete:</u> The entire Definition.

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H01L 51/524			<u>Delete</u> : The entire Definition.
H01L 51/5243			<u>Delete</u> : The entire Definition.
H01L 51/5246			<u>Delete</u> : The entire Definition.
H01L 51/525			<u>Delete</u> : The entire Definition.
H01L 51/5253			<u>Delete</u> : The entire Definition.
H01L 51/5256			<u>Delete</u> : The entire Definition.
H01L 51/5259			<u>Delete</u> : The entire Definition.
H01L 51/5262			<u>Delete</u> : The entire Definition.
H01L 51/5265			<u>Delete</u> : The entire Definition.
H01L 51/5268			<u>Delete</u> : The entire Definition.
H01L 51/5271			<u>Delete</u> : The entire Definition.
H01L 51/5275			<u>Delete</u> : The entire Definition.
H01L 51/5278			<u>Delete</u> : The entire Definition.
H01L 51/5281			<u>Delete</u> : The entire Definition.
H01L 51/5284			<u>Delete</u> : The entire Definition.
H01L 51/5287			<u>Delete</u> : The entire Definition.
H01L 51/529			<u>Delete</u> : The entire Definition.
H01L 51/5293			<u>Delete</u> : The entire Definition.
H01L 51/5296			<u>Delete</u> : The entire Definition.
H01L 51/56			<u>Delete</u> : The 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.

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3. REVISION CONCORDANCE LIST (RCL)

Type*	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
D	H01L 27/28	<administrative transfer to H10K 19/00>
D	H01L 27/281	<administrative transfer to H10K 19/201>
D	H01L 27/283	<administrative transfer to H10K 19/10>
D	H01L 27/285	<administrative transfer to H10K 19/202>
D	H01L 27/286	<administrative transfer to H10K 19/20>
D	H01L 27/288	<administrative transfer to H10K 65/00>
D	H01L 27/30	<administrative transfer to H10K 39/00>
D	H01L 27/301	<administrative transfer to H10K 39/10>
D	H01L 27/302	<administrative transfer to H10K 30/57>
D	H01L 27/304	<administrative transfer to H10K 30/53>
D	H01L 27/305	<administrative transfer to H10K 39/30>
D	H01L 27/307	<administrative transfer to H10K 39/32>
D	H01L 27/308	<administrative transfer to H10K 39/36>
D	H01L 27/32	<administrative transfer to H10K 59/00>
D	H01L 27/3202	<administrative transfer to H10K 59/84>
D	H01L 27/3204	<administrative transfer to H10K 59/86>
D	H01L 27/3206	<administrative transfer to H10K 59/30>
D	H01L 27/3209	<administrative transfer to H10K 59/32>
D	H01L 27/3211	<administrative transfer to H10K 59/35>
D	H01L 27/3213	<administrative transfer to H10K 59/351>
D	H01L 27/3216	<administrative transfer to H10K 59/352>
D	H01L 27/3218	<administrative transfer to H10K 59/353>
D	H01L 27/322	<administrative transfer to H10K 59/38>
D	H01L 27/3223	<administrative transfer to H10K 59/88>
D	H01L 27/3225	<administrative transfer to H10K 59/00>
D	H01L 27/3227	<administrative transfer to H10K 59/60>
D	H01L 27/323	<administrative transfer to H10K 59/40>
D	H01L 27/3232	<administrative transfer to H10K 59/50>
D	H01L 27/3234	<administrative transfer to H10K 59/65>
D	H01L 27/3237	<administrative transfer to H10K 59/10>
D	H01L 27/3239	<administrative transfer to H10K 59/221>
D	H01L 27/3241	<administrative transfer to H10K 59/10>
D	H01L 27/3244	<administrative transfer to H10K 59/12>
D	H01L 27/3246	<administrative transfer to H10K 59/122>
D	H01L 27/3248	<administrative transfer to H10K 59/123>
D	H01L 27/3251	<administrative transfer to H10K 59/127>
D	H01L 27/3253	<administrative transfer to H10K 59/1275>
D	H01L 27/3255	<administrative transfer to H10K 59/129>
D	H01L 27/3258	<administrative transfer to H10K 59/124>
D	H01L 27/326	<administrative transfer to H10K 59/121>
D	H01L 27/3262	<administrative transfer to H10K 59/1213>
D	H01L 27/3265	<administrative transfer to H10K 59/1216>
D	H01L 27/3267	<administrative transfer to H10K 59/128>
D	H01L 27/3269	<administrative transfer to H10K 59/13>
D	H01L 27/3272	<administrative transfer to H10K 59/126>

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Type*	From CPC Symbol (existing)	To CPC Symbol(s)
D	H01L 27/3274	<administrative transfer to H10K 59/125>
D	H01L 27/3276	<administrative transfer to H10K 59/131>
D	H01L 27/3279	<administrative transfer to H10K 59/1315>
D	H01L 27/3281	<administrative transfer to H10K 59/17>
D	H01L 27/3283	<administrative transfer to H10K 59/173>
D	H01L 27/3286	<administrative transfer to H10K 59/176>
D	H01L 27/3288	<administrative transfer to H10K 59/179>
D	H01L 27/329	<administrative transfer to H10K 59/1795>
D	H01L 27/3293	<administrative transfer to H10K 59/18>
D	H01L 51/00	<administrative transfer to H10K 99/00>
D	H01L 51/0001	<administrative transfer to H10K 71/00>
D	H01L 51/0002	<administrative transfer to H10K 71/10>
D	H01L 51/0003	<administrative transfer to H10K 71/12>
D	H01L 51/0004	<administrative transfer to H10K 71/13>
D	H01L 51/0005	<administrative transfer to H10K 71/135>
D	H01L 51/0006	<administrative transfer to H10K 71/125>
D	H01L 51/0007	<administrative transfer to H10K 71/15>
D	H01L 51/0008	<administrative transfer to H10K 71/16>
D	H01L 51/0009	<administrative transfer to H10K 71/162>
D	H01L 51/001	<administrative transfer to H10K 71/164>
D	H01L 51/0011	<administrative transfer to H10K 71/166>
D	H01L 51/0012	<administrative transfer to H10K 71/191>
D	H01L 51/0013	<administrative transfer to H10K 71/18>
D	H01L 51/0014	<administrative transfer to H10K 71/20>
D	H01L 51/0015	<administrative transfer to H10K 71/211>
D	H01L 51/0016	<administrative transfer to H10K 71/221>
D	H01L 51/0017	<administrative transfer to H10K 71/231>
D	H01L 51/0018	<administrative transfer to H10K 71/233>
D	H01L 51/0019	<administrative transfer to H10K 71/236>
D	H01L 51/002	<administrative transfer to H10K 71/30>
D	H01L 51/0021	<administrative transfer to H10K 71/60>
D	H01L 51/0022	<administrative transfer to H10K 71/611>
D	H01L 51/0023	<administrative transfer to H10K 71/621>
D	H01L 51/0024	<administrative transfer to H10K 71/50>
D	H01L 51/0025	<administrative transfer to H10K 71/311>
D	H01L 51/0026	<administrative transfer to H10K 71/40>
D	H01L 51/0027	<administrative transfer to H10K 71/421>
D	H01L 51/0028	<administrative transfer to H10K 71/441>
D	H01L 51/0029	<administrative transfer to H10K 71/811>
D	H01L 51/003	<administrative transfer to H10K 71/80>
D	H01L 51/0031	<administrative transfer to H10K 71/70>
D	H01L 51/0032	<administrative transfer to H10K 85/00>
D	H01L 51/0034	<administrative transfer to H10K 85/10>
D	H01L 51/0035	<administrative transfer to H10K 85/111>
D	H01L 51/0036	<administrative transfer to H10K 85/113>
D	H01L 51/0037	<administrative transfer to H10K 85/1135>
D	H01L 51/0038	<administrative transfer to H10K 85/114>
D	H01L 51/0039	<administrative transfer to H10K 85/115>
D	H01L 51/004	<administrative transfer to H10K 85/141>

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Type*	From CPC Symbol (existing)	To CPC Symbol(s)
D	H01L 51/0041	<administrative transfer to H10K 85/143>
D	H01L 51/0042	<administrative transfer to H10K 85/146>
D	H01L 51/0043	<administrative transfer to H10K 85/151>
D	H01L 51/0044	<administrative transfer to H10K 85/154>
D	H01L 51/0045	<administrative transfer to H10K 85/20>
D	H01L 51/0046	<administrative transfer to H10K 85/211>
D	H01L 51/0047	<administrative transfer to H10K 85/215>
D	H01L 51/0048	<administrative transfer to H10K 85/221>
D	H01L 51/0049	<administrative transfer to H10K 85/225>
D	H01L 51/005	<administrative transfer to H10K 85/60>
D	H01L 51/0051	<administrative transfer to H10K 85/611>
D	H01L 51/0052	<administrative transfer to H10K 85/615>
D	H01L 51/0053	<administrative transfer to H10K 85/621>
D	H01L 51/0054	<administrative transfer to H10K 85/622>
D	H01L 51/0055	<administrative transfer to H10K 85/623>
D	H01L 51/0056	<administrative transfer to H10K 85/624>
D	H01L 51/0057	<administrative transfer to H10K 85/625>
D	H01L 51/0058	<administrative transfer to H10K 85/626>
D	H01L 51/0059	<administrative transfer to H10K 85/631>
D	H01L 51/006	<administrative transfer to H10K 85/633>
D	H01L 51/0061	<administrative transfer to H10K 85/636>
D	H01L 51/0062	<administrative transfer to H10K 85/649>
D	H01L 51/0064	<administrative transfer to H10K 85/652>
D	H01L 51/0065	<administrative transfer to H10K 85/653>
D	H01L 51/0067	<administrative transfer to H10K 85/654>
D	H01L 51/0068	<administrative transfer to H10K 85/655>
D	H01L 51/0069	<administrative transfer to H10K 85/656>
D	H01L 51/007	<administrative transfer to H10K 85/6565>
D	H01L 51/0071	<administrative transfer to H10K 85/657>
D	H01L 51/0072	<administrative transfer to H10K 85/6572>
D	H01L 51/0073	<administrative transfer to H10K 85/6574>
D	H01L 51/0074	<administrative transfer to H10K 85/6576>
D	H01L 51/0075	<administrative transfer to H10K 85/701>
D	H01L 51/0076	<administrative transfer to H10K 85/731>
D	H01L 51/0077	<administrative transfer to H10K 85/30>
D	H01L 51/0078	<administrative transfer to H10K 85/311>
D	H01L 51/0079	<administrative transfer to H10K 85/321>
D	H01L 51/008	<administrative transfer to H10K 85/322>
D	H01L 51/0081	<administrative transfer to H10K 85/324>
D	H01L 51/0082	<administrative transfer to H10K 85/326>
D	H01L 51/0083	<administrative transfer to H10K 85/331>
D	H01L 51/0084	<administrative transfer to H10K 85/341>
D	H01L 51/0085	<administrative transfer to H10K 85/342>
D	H01L 51/0086	<administrative transfer to H10K 85/344>
D	H01L 51/0087	<administrative transfer to H10K 85/346>
D	H01L 51/0088	<administrative transfer to H10K 85/348>
D	H01L 51/0089	<administrative transfer to H10K 85/351>
D	H01L 51/009	<administrative transfer to H10K 85/361>
D	H01L 51/0091	<administrative transfer to H10K 85/371>

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Type*	From CPC Symbol (existing)	To CPC Symbol(s)
D	H01L 51/0092	<administrative transfer to H10K 85/381>
D	H01L 51/0093	<administrative transfer to H10K 85/761>
D	H01L 51/0094	<administrative transfer to H10K 85/40>
D	H01L 51/0095	<administrative transfer to H10K 85/791>
D	H01L 51/0096	<administrative transfer to H10K 77/10>
D	H01L 51/0097	<administrative transfer to H10K 77/111>
D	H01L 51/0098	<administrative transfer to H10K 30/671>
D	H01L 51/05	<administrative transfer to H10K 10/00>
D	H01L 51/0504	<administrative transfer to H10K 10/00>
D	H01L 51/0508	<administrative transfer to H10K 10/46>
D	H01L 51/0512	<administrative transfer to H10K 10/462>
D	H01L 51/0516	<administrative transfer to H10K 10/468>
D	H01L 51/052	<administrative transfer to H10K 10/471>
D	H01L 51/0525	<administrative transfer to H10K 10/472>
D	H01L 51/0529	<administrative transfer to H10K 10/474>
D	H01L 51/0533	<administrative transfer to H10K 10/476>
D	H01L 51/0537	<administrative transfer to H10K 10/478>
D	H01L 51/0541	<administrative transfer to H10K 10/464>
D	H01L 51/0545	<administrative transfer to H10K 10/466>
D	H01L 51/055	<administrative transfer to H10K 10/481>
D	H01L 51/0554	<administrative transfer to H10K 10/482>
D	H01L 51/0558	<administrative transfer to H10K 10/484>
D	H01L 51/0562	<administrative transfer to H10K 10/486>
D	H01L 51/0566	<administrative transfer to H10K 10/488>
D	H01L 51/057	<administrative transfer to H10K 10/491>
D	H01L 51/0575	<administrative transfer to H10K 10/20>
D	H01L 51/0579	<administrative transfer to H10K 10/23>
D	H01L 51/0583	<administrative transfer to H10K 10/26>
D	H01L 51/0587	<administrative transfer to H10K 10/29>
D	H01L 51/0591	<administrative transfer to H10K 10/50>
D	H01L 51/0595	<administrative transfer to H10K 10/701>
D	H01L 51/10	<administrative transfer to H10K 10/80>
D	H01L 51/102	<administrative transfer to H10K 10/82>
D	H01L 51/105	<administrative transfer to H10K 10/84>
D	H01L 51/107	<administrative transfer to H10K 10/88>
D	H01L 51/42	<administrative transfer to H10K 30/00>
D	H01L 51/4206	<administrative transfer to H10K 30/451>
D	H01L 51/4213	<administrative transfer to H10K 30/10>
D	H01L 51/422	<administrative transfer to H10K 30/15>
D	H01L 51/4226	<administrative transfer to H10K 30/151>
D	H01L 51/4233	<administrative transfer to H10K 30/152>
D	H01L 51/424	<administrative transfer to H10K 30/20>
D	H01L 51/4246	<administrative transfer to H10K 30/211>
D	H01L 51/4253	<administrative transfer to H10K 30/30>
D	H01L 51/426	<administrative transfer to H10K 30/35>
D	H01L 51/4266	<administrative transfer to H10K 30/352>
D	H01L 51/4273	<administrative transfer to H10K 30/353>
D	H01L 51/428	<administrative transfer to H10K 30/65>
D	H01L 51/4286	<administrative transfer to H10K 30/354>

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Type*	From CPC Symbol (existing)	To CPC Symbol(s)
D	H01L 51/4293	<administrative transfer to H10K 30/40>
D	H01L 51/44	<administrative transfer to H10K 30/80>
D	H01L 51/441	<administrative transfer to H10K 30/81>
D	H01L 51/442	<administrative transfer to H10K 30/82>
D	H01L 51/444	<administrative transfer to H10K 30/821>
D	H01L 51/445	<administrative transfer to H10K 30/83>
D	H01L 51/447	<administrative transfer to H10K 30/87>
D	H01L 51/448	<administrative transfer to H10K 30/88>
D	H01L 51/50	<administrative transfer to H10K 50/00>
D	H01L 51/5004	<administrative transfer to H10K 50/11 and H10K 2101/40 simultaneously>
D	H01L 51/5008	<administrative transfer to H10K 30/865>
D	H01L 51/5012	<administrative transfer to H10K 50/11>
D	H01L 51/5016	<administrative transfer to H10K 50/11 and H10K 2101/10 simultaneously>
D	H01L 51/502	<administrative transfer to H10K 50/115>
D	H01L 51/5024	<administrative transfer to H10K 50/12>
D	H01L 51/5028	<administrative transfer to H10K 50/121>
D	H01L 51/5032	<administrative transfer to H10K 50/135>
D	H01L 51/5036	<administrative transfer to H10K 50/125>
D	H01L 51/504	<administrative transfer to H10K 50/13>
D	H01L 51/5044	<administrative transfer to H10K 50/131>
D	H01L 51/5048	<administrative transfer to H10K 50/14>
D	H01L 51/5056	<administrative transfer to H10K 50/15>
D	H01L 51/506	<administrative transfer to H10K 50/155>
D	H01L 51/5064	<administrative transfer to H10K 50/156>
D	H01L 51/5068	<administrative transfer to H10K 50/157>
D	H01L 51/5072	<administrative transfer to H10K 50/16>
D	H01L 51/5076	<administrative transfer to H10K 50/165>
D	H01L 51/508	<administrative transfer to H10K 50/166>
D	H01L 51/5084	<administrative transfer to H10K 50/167>
D	H01L 51/5088	<administrative transfer to H10K 50/17>
D	H01L 51/5092	<administrative transfer to H10K 50/171>
D	H01L 51/5096	<administrative transfer to H10K 50/18>
D	H01L 51/52	<administrative transfer to H10K 50/80>
D	H01L 51/5203	<administrative transfer to H10K 50/805>
D	H01L 51/5206	<administrative transfer to H10K 50/81>
D	H01L 51/5209	<administrative transfer to H10K 50/813>
D	H01L 51/5212	<administrative transfer to H10K 50/814>
D	H01L 51/5215	<administrative transfer to H10K 50/816>
D	H01L 51/5218	<administrative transfer to H10K 50/818>
D	H01L 51/5221	<administrative transfer to H10K 50/82>
D	H01L 51/5225	<administrative transfer to H10K 50/822>
D	H01L 51/5228	<administrative transfer to H10K 50/824>
D	H01L 51/5231	<administrative transfer to H10K 50/826>
D	H01L 51/5234	<administrative transfer to H10K 50/828>
D	H01L 51/5237	<administrative transfer to H10K 50/84>
D	H01L 51/524	<administrative transfer to H10K 50/841>
D	H01L 51/5243	<administrative transfer to H10K 50/8423>

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Type*	From CPC Symbol (existing)	To CPC Symbol(s)
D	H01L 51/5246	<administrative transfer to H10K 50/8426>
D	H01L 51/525	<administrative transfer to H10K 50/8428>
D	H01L 51/5253	<administrative transfer to H10K 50/844>
D	H01L 51/5256	<administrative transfer to H10K 50/8445>
D	H01L 51/5259	<administrative transfer to H10K 50/846>
D	H01L 51/5262	<administrative transfer to H10K 50/85>
D	H01L 51/5265	<administrative transfer to H10K 50/852>
D	H01L 51/5268	<administrative transfer to H10K 50/854>
D	H01L 51/5271	<administrative transfer to H10K 50/856>
D	H01L 51/5275	<administrative transfer to H10K 50/858>
D	H01L 51/5278	<administrative transfer to H10K 50/19>
D	H01L 51/5281	<administrative transfer to H10K 50/86>
D	H01L 51/5284	<administrative transfer to H10K 50/865>
D	H01L 51/5287	<administrative transfer to H10K 50/182>
D	H01L 51/529	<administrative transfer to H10K 50/87>
D	H01L 51/5293	<administrative transfer to H10K 50/868>
D	H01L 51/5296	<administrative transfer to H10K 50/30>
D	H01L 51/56	<administrative transfer to H10K 71/00>
D	H01L 2227/00	<no transfer>
D	H01L 2227/32	<administrative transfer to H10K 59/10 INV>
D	H01L 2227/323	<administrative transfer to H10K 59/1201 INV>
D	H01L 2227/326	<administrative transfer to H10K 71/80 INV, H10K 59/1201 INV simultaneously>
D	H01L 2251/00	<no transfer>
D	H01L 2251/10	<administrative transfer to H10K 71/00>
D	H01L 2251/105	<administrative transfer to H10K 71/821>
D	H01L 2251/30	<administrative transfer to H10K 2102/00>
D	H01L 2251/301	<administrative transfer to H10K 2102/00>
D	H01L 2251/303	<administrative transfer to H10K 2102/00>
D	H01L 2251/305	<administrative transfer to H10K 2102/101>
D	H01L 2251/306	<administrative transfer to H10K 2102/102>
D	H01L 2251/308	<administrative transfer to H10K 2102/103>
D	H01L 2251/50	<administrative transfer to H10K 2102/301>
D	H01L 2251/53	<administrative transfer to H10K 2102/302>
D	H01L 2251/5307	<administrative transfer to H10K 2102/3023>
D	H01L 2251/5315	<administrative transfer to H10K 2102/3026>
D	H01L 2251/5323	<administrative transfer to H10K 2102/3031>
D	H01L 2251/533	<administrative transfer to H10K 2102/3035>
D	H01L 2251/5338	<administrative transfer to H10K 2102/311>
D	H01L 2251/5346	<administrative transfer to H10K 2101/80>
D	H01L 2251/5353	<administrative transfer to H10K 2102/321>
D	H01L 2251/5361	<no transfer>
D	H01L 2251/5369	<administrative transfer to H10K 2102/331>
D	H01L 2251/5376	<administrative transfer to H10K 2101/27>
D	H01L 2251/5384	<administrative transfer to H10K 2101/90>
D	H01L 2251/5392	<administrative transfer to H10K 2102/341>
D	H01L 2251/55	<administrative transfer to H10K 2101/00>
D	H01L 2251/552	<administrative transfer to H10K 2101/30>
D	H01L 2251/554	<administrative transfer to H10K 2101/50>

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Type*	From CPC Symbol (existing)	To CPC Symbol(s)
D	H01L 2251/556	<administrative transfer to H10K 2102/361>
D	H01L 2251/558	<administrative transfer to H10K 2102/351>
D	H01L 2251/56	<administrative transfer to H10K 71/00>
D	H01L 2251/562	<administrative transfer to H10K 71/831>
D	H01L 2251/564	<administrative transfer to H10K 71/841>
D	H01L 2251/566	<administrative transfer to H10K 71/851>
D	H01L 2251/568	<administrative transfer to H10K 71/861>
Q	H10K 10/00	H10K 10/00, H10K 10/10, H10K 10/40, H10K 10/43
Q	H10K 10/80	H10K 10/80, H10K 77/00
Q	H10K 10/82	H10K 10/82, H10K 10/86
Q	H10K 19/00	H10K 19/00, H10K 19/80
Q	H10K 19/201	H10K 19/201, H10K 39/401, H10K 59/751
Q	H10K 19/202	H10K 19/202, H10K 39/501, H10K 59/771
Q	H10K 30/00	H10K 30/00, H10K 30/50, H10K 30/53, H10K 30/60
Q	H10K 30/10	H10K 30/10, H10K 30/50, H10K 30/53
Q	H10K 30/15	H10K 30/15, H10K 30/50, H10K 30/53
Q	H10K 30/151	H10K 30/151, H10K 30/50, H10K 30/53
Q	H10K 30/152	H10K 30/152, H10K 30/50, H10K 30/53
Q	H10K 30/20	H10K 30/20, H10K 30/50, H10K 30/53
Q	H10K 30/211	H10K 30/211, H10K 30/50, H10K 30/53
Q	H10K 30/30	H10K 30/30, H10K 30/50, H10K 30/53
Q	H10K 30/35	H10K 30/35, H10K 30/50, H10K 30/53
Q	H10K 30/352	H10K 30/352, H10K 30/50, H10K 30/53
Q	H10K 30/353	H10K 30/353, H10K 30/50, H10K 30/53
Q	H10K 30/354	H10K 30/354, H10K 30/50, H10K 30/53
Q	H10K 30/40	H10K 30/40, H10K 30/50, H10K 30/53
Q	H10K 30/451	H10K 30/451, H10K 30/50, H10K 30/53
Q	H10K 30/671	H10K 30/671, H10K 50/401
Q	H10K 30/80	H10K 30/80, H10K 30/84, H10K 30/85, H10K 30/86, H10K 30/89, H10K 77/00
Q	H10K 39/10	H10K 39/10, H10K 39/12, H10K 39/15, H10K 39/18
Q	H10K 39/30	H10K 39/30, H10K 39/38
Q	H10K 39/601	H10K 39/601, H10K 39/621
Q	H10K 50/00	H10K 50/00, H10K 50/10
Q	H10K 50/17	H10K 50/17, H10K 50/171
Q	H10K 50/18	H10K 50/18, H10K 50/181
Q	H10K 50/80	H10K 50/80, H10K 50/88, H10K 59/80, H10K 77/00
Q	H10K 50/805	H10K 50/805, H10K 59/805
Q	H10K 50/81	H10K 50/81, H10K 50/816, H10K 59/8051
Q	H10K 50/813	H10K 50/813, H10K 59/80515
Q	H10K 50/814	H10K 50/814, H10K 59/80516
Q	H10K 50/816	H10K 50/816, H10K 59/80517
Q	H10K 50/818	H10K 50/818, H10K 59/80518
Q	H10K 50/82	H10K 50/82, H10K 50/826, H10K 59/8052
Q	H10K 50/822	H10K 50/822, H10K 59/80521
Q	H10K 50/824	H10K 50/824, H10K 59/80522
Q	H10K 50/826	H10K 50/826, H10K 59/80523
Q	H10K 50/828	H10K 50/828, H10K 59/80524
Q	H10K 50/84	H10K 50/84, H10K 59/87

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Type*	From CPC Symbol (existing)	To CPC Symbol(s)
Q	H10K 50/841	H10K 50/841, H10K 50/842, H10K 59/871, H10K 59/872
Q	H10K 50/8423	H10K 50/8423, H10K 59/8721
Q	H10K 50/8426	H10K 50/8426, H10K 59/8722
Q	H10K 50/8428	H10K 50/8428, H10K 59/8723
Q	H10K 50/844	H10K 50/844, H10K 59/873
Q	H10K 50/8445	H10K 50/8445, H10K 59/8731
Q	H10K 50/846	H10K 50/846, H10K 59/874
Q	H10K 50/85	H10K 50/85, H10K 59/875
Q	H10K 50/852	H10K 50/852, H10K 59/876
Q	H10K 50/854	H10K 50/854, H10K 59/877
Q	H10K 50/856	H10K 50/856, H10K 59/878
Q	H10K 50/858	H10K 50/858, H10K 59/879
Q	H10K 50/86	H10K 50/86, H10K 59/8791
Q	H10K 50/865	H10K 50/865, H10K 59/8792
Q	H10K 50/868	H10K 50/868, H10K 59/8793
Q	H10K 50/87	H10K 50/87, H10K 59/8794
Q	H10K 59/00	H10K 59/00, H10K 59/70, H10K 59/80, H10K 59/805, H10K 59/8051, H10K 59/80515, H10K 59/80516, H10K 59/80517, H10K 59/80518, H10K 59/8052, H10K 59/80521, H10K 59/80522, H10K 59/80523, H10K 59/80524, H10K 59/82, H10K 59/84, H10K 59/86, H10K 59/87, H10K 59/871, H10K 59/872, H10K 59/8721, H10K 59/8722, H10K 59/8723, H10K 59/873, H10K 59/8731, H10K 59/874, H10K 59/875, H10K 59/876, H10K 59/877, H10K 59/878, H10K 59/879, H10K 59/8791, H10K 59/8792, H10K 59/8793, H10K 59/8794, H10K 59/88
Q	H10K 59/10	H10K 59/10, H10K 59/19
Q	H10K 59/12	H10K 59/12, H10K 59/131, H10K 59/1315
Q	H10K 59/17	H10K 59/17, H10K 59/179, H10K 59/1795
Q	H10K 59/65	H10K 59/65, H10K 39/34
Q	H10K 59/90	H10K 59/90, H10K 59/95
Q	H10K 71/00	H10K 71/00, H10K 71/40, H10K 71/421, H10K 71/441
Q	H10K 85/00	H10K 85/00, H10K 85/50
Q	H10K 85/322	H10K 85/322, H10K 85/658
Q	H10K 99/00	H10K 99/00, H10K 77/00
Q	H10K 2101/00	H10K 2101/00, H10K 2101/20, H10K 2101/25, H10K 2101/60, H10K 2101/70, H10K 2102/00

* 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”.

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- 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.

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H01L 27/28		DELETE
H01L 27/281		DELETE
H01L 27/283		DELETE
H01L 27/285		DELETE
H01L 27/286		DELETE
H01L 27/288		DELETE
H01L 27/30		DELETE
H01L 27/301		DELETE
H01L 27/302		DELETE
H01L 27/304		DELETE
H01L 27/305		DELETE
H01L 27/307		DELETE
H01L 27/308		DELETE
H01L 27/32		DELETE
H01L 27/3202		DELETE
H01L 27/3204		DELETE
H01L 27/3206		DELETE
H01L 27/3209		DELETE
H01L 27/3211		DELETE
H01L 27/3213		DELETE
H01L 27/3216		DELETE
H01L 27/3218		DELETE
H01L 27/322		DELETE
H01L 27/3223		DELETE
H01L 27/3225		DELETE
H01L 27/3227		DELETE
H01L 27/323		DELETE
H01L 27/3232		DELETE
H01L 27/3234		DELETE
H01L 27/3237		DELETE
H01L 27/3239		DELETE
H01L 27/3241		DELETE
H01L 27/3244		DELETE
H01L 27/3246		DELETE
H01L 27/3248		DELETE
H01L 27/3251		DELETE
H01L 27/3253		DELETE
H01L 27/3255		DELETE
H01L 27/3258		DELETE
H01L 27/326		DELETE

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H01L 27/3262		DELETE
H01L 27/3265		DELETE
H01L 27/3267		DELETE
H01L 27/3269		DELETE
H01L 27/3272		DELETE
H01L 27/3274		DELETE
H01L 27/3276		DELETE
H01L 27/3279		DELETE
H01L 27/3281		DELETE
H01L 27/3283		DELETE
H01L 27/3286		DELETE
H01L 27/3288		DELETE
H01L 27/329		DELETE
H01L 27/3293		DELETE
H01L 51/00		DELETE
H01L 51/0001		DELETE
H01L 51/0002		DELETE
H01L 51/0003		DELETE
H01L 51/0004		DELETE
H01L 51/0005		DELETE
H01L 51/0006		DELETE
H01L 51/0007		DELETE
H01L 51/0008		DELETE
H01L 51/0009		DELETE
H01L 51/001		DELETE
H01L 51/0011		DELETE
H01L 51/0012		DELETE
H01L 51/0013		DELETE
H01L 51/0014		DELETE
H01L 51/0015		DELETE
H01L 51/0016		DELETE
H01L 51/0017		DELETE
H01L 51/0018		DELETE
H01L 51/0019		DELETE
H01L 51/002		DELETE
H01L 51/0021		DELETE
H01L 51/0022		DELETE
H01L 51/0023		DELETE
H01L 51/0024		DELETE
H01L 51/0025		DELETE
H01L 51/0026		DELETE
H01L 51/0027		DELETE
H01L 51/0028		DELETE
H01L 51/0029		DELETE
H01L 51/003		DELETE

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H01L 51/0031		DELETE
H01L 51/0032		DELETE
H01L 51/0034		DELETE
H01L 51/0035		DELETE
H01L 51/0036		DELETE
H01L 51/0037		DELETE
H01L 51/0038		DELETE
H01L 51/0039		DELETE
H01L 51/004		DELETE
H01L 51/0041		DELETE
H01L 51/0042		DELETE
H01L 51/0043		DELETE
H01L 51/0044		DELETE
H01L 51/0045		DELETE
H01L 51/0046		DELETE
H01L 51/0047		DELETE
H01L 51/0048		DELETE
H01L 51/0049		DELETE
H01L 51/005		DELETE
H01L 51/0051		DELETE
H01L 51/0052		DELETE
H01L 51/0053		DELETE
H01L 51/0054		DELETE
H01L 51/0055		DELETE
H01L 51/0056		DELETE
H01L 51/0057		DELETE
H01L 51/0058		DELETE
H01L 51/0059		DELETE
H01L 51/006		DELETE
H01L 51/0061		DELETE
H01L 51/0062		DELETE
H01L 51/0064		DELETE
H01L 51/0065		DELETE
H01L 51/0067		DELETE
H01L 51/0068		DELETE
H01L 51/0069		DELETE
H01L 51/007		DELETE
H01L 51/0071		DELETE
H01L 51/0072		DELETE
H01L 51/0073		DELETE
H01L 51/0074		DELETE
H01L 51/0075		DELETE
H01L 51/0076		DELETE
H01L 51/0077		DELETE
H01L 51/0078		DELETE

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H01L 51/0079		DELETE
H01L 51/008		DELETE
H01L 51/0081		DELETE
H01L 51/0082		DELETE
H01L 51/0083		DELETE
H01L 51/0084		DELETE
H01L 51/0085		DELETE
H01L 51/0086		DELETE
H01L 51/0087		DELETE
H01L 51/0088		DELETE
H01L 51/0089		DELETE
H01L 51/009		DELETE
H01L 51/0091		DELETE
H01L 51/0092		DELETE
H01L 51/0093		DELETE
H01L 51/0094		DELETE
H01L 51/0095		DELETE
H01L 51/0096		DELETE
H01L 51/0097		DELETE
H01L 51/0098		DELETE
H01L 51/05		DELETE
H01L 51/0504		DELETE
H01L 51/0508		DELETE
H01L 51/0512		DELETE
H01L 51/0516		DELETE
H01L 51/052		DELETE
H01L 51/0525		DELETE
H01L 51/0529		DELETE
H01L 51/0533		DELETE
H01L 51/0537		DELETE
H01L 51/0541		DELETE
H01L 51/0545		DELETE
H01L 51/055		DELETE
H01L 51/0554		DELETE
H01L 51/0558		DELETE
H01L 51/0562		DELETE
H01L 51/0566		DELETE
H01L 51/057		DELETE
H01L 51/0575		DELETE
H01L 51/0579		DELETE
H01L 51/0583		DELETE
H01L 51/0587		DELETE
H01L 51/0591		DELETE
H01L 51/0595		DELETE
H01L 51/10		DELETE

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H01L 51/102		DELETE
H01L 51/105		DELETE
H01L 51/107		DELETE
H01L 51/42		DELETE
H01L 51/4206		DELETE
H01L 51/4213		DELETE
H01L 51/422		DELETE
H01L 51/4226		DELETE
H01L 51/4233		DELETE
H01L 51/424		DELETE
H01L 51/4246		DELETE
H01L 51/4253		DELETE
H01L 51/426		DELETE
H01L 51/4266		DELETE
H01L 51/4273		DELETE
H01L 51/428		DELETE
H01L 51/4286		DELETE
H01L 51/4293		DELETE
H01L 51/44		DELETE
H01L 51/441		DELETE
H01L 51/442		DELETE
H01L 51/444		DELETE
H01L 51/445		DELETE
H01L 51/447		DELETE
H01L 51/448		DELETE
H01L 51/50		DELETE
H01L 51/5004		DELETE
H01L 51/5008		DELETE
H01L 51/5012		DELETE
H01L 51/5016		DELETE
H01L 51/502		DELETE
H01L 51/5024		DELETE
H01L 51/5028		DELETE
H01L 51/5032		DELETE
H01L 51/5036		DELETE
H01L 51/504		DELETE
H01L 51/5044		DELETE
H01L 51/5048		DELETE
H01L 51/5056		DELETE
H01L 51/506		DELETE
H01L 51/5064		DELETE
H01L 51/5068		DELETE
H01L 51/5072		DELETE
H01L 51/5076		DELETE
H01L 51/508		DELETE

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H01L 51/5084		DELETE
H01L 51/5088		DELETE
H01L 51/5092		DELETE
H01L 51/5096		DELETE
H01L 51/52		DELETE
H01L 51/5203		DELETE
H01L 51/5206		DELETE
H01L 51/5209		DELETE
H01L 51/5212		DELETE
H01L 51/5215		DELETE
H01L 51/5218		DELETE
H01L 51/5221		DELETE
H01L 51/5225		DELETE
H01L 51/5228		DELETE
H01L 51/5231		DELETE
H01L 51/5234		DELETE
H01L 51/5237		DELETE
H01L 51/524		DELETE
H01L 51/5243		DELETE
H01L 51/5246		DELETE
H01L 51/525		DELETE
H01L 51/5253		DELETE
H01L 51/5256		DELETE
H01L 51/5259		DELETE
H01L 51/5262		DELETE
H01L 51/5265		DELETE
H01L 51/5268		DELETE
H01L 51/5271		DELETE
H01L 51/5275		DELETE
H01L 51/5278		DELETE
H01L 51/5281		DELETE
H01L 51/5284		DELETE
H01L 51/5287		DELETE
H01L 51/529		DELETE
H01L 51/5293		DELETE
H01L 51/5296		DELETE
H01L 51/56		DELETE
H01L 2227/00		DELETE
H01L 2227/32		DELETE
H01L 2227/323		DELETE
H01L 2227/326		DELETE
H01L 2251/00		DELETE
H01L 2251/10		DELETE
H01L 2251/105		DELETE
H01L 2251/30		DELETE

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H01L 2251/301		DELETE
H01L 2251/303		DELETE
H01L 2251/305		DELETE
H01L 2251/306		DELETE
H01L 2251/308		DELETE
H01L 2251/50		DELETE
H01L 2251/53		DELETE
H01L 2251/5307		DELETE
H01L 2251/5315		DELETE
H01L 2251/5323		DELETE
H01L 2251/533		DELETE
H01L 2251/5338		DELETE
H01L 2251/5346		DELETE
H01L 2251/5353		DELETE
H01L 2251/5361		DELETE
H01L 2251/5369		DELETE
H01L 2251/5376		DELETE
H01L 2251/5384		DELETE
H01L 2251/5392		DELETE
H01L 2251/55		DELETE
H01L 2251/552		DELETE
H01L 2251/554		DELETE
H01L 2251/556		DELETE
H01L 2251/558		DELETE
H01L 2251/56		DELETE
H01L 2251/562		DELETE
H01L 2251/564		DELETE
H01L 2251/566		DELETE
H01L 2251/568		DELETE
H10K 10/00	H10K 10/00	NEW
H10K 10/10	H10K 10/10	NEW
H10K 10/20	H10K 10/20	NEW
H10K 10/23	H10K 10/23	NEW
H10K 10/26	H10K 10/26	NEW
H10K 10/29	H10K 10/29	NEW
H10K 10/40	H10K 10/40	NEW
H10K 10/43	H10K 10/43	NEW
H10K 10/46	H10K 10/46	NEW
H10K 10/462	H10K 10/46	NEW
H10K 10/464	H10K 10/46	NEW
H10K 10/466	H10K 10/46	NEW
H10K 10/468	H10K 10/46	NEW
H10K 10/471	H10K 10/46	NEW
H10K 10/472	H10K 10/46	NEW
H10K 10/474	H10K 10/46	NEW

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H10K 10/476	H10K 10/46	NEW
H10K 10/478	H10K 10/46	NEW
H10K 10/481	H10K 10/46	NEW
H10K 10/482	H10K 10/46	NEW
H10K 10/484	H10K 10/46	NEW
H10K 10/486	H10K 10/46	NEW
H10K 10/488	H10K 10/46	NEW
H10K 10/491	H10K 10/46	NEW
H10K 10/50	H10K 10/50	NEW
H10K 10/701	H10K 10/00	NEW
H10K 10/80	H10K 10/80	NEW
H10K 10/82	H10K 10/82	NEW
H10K 10/84	H10K 10/84	NEW
H10K 10/86	H10K 10/86	NEW
H10K 10/88	H10K 10/88	NEW
H10K 19/00	H10K 19/00	NEW
H10K 19/10	H10K 19/10	NEW
H10K 19/20	H10K 19/20	NEW
H10K 19/201	H10K 19/00	NEW
H10K 19/202	H10K 19/00	NEW
H10K 19/80	H10K 19/80	NEW
H10K 19/901	H10K 19/00	NEW
H10K 30/00	H10K 30/00	NEW
H10K 30/10	H10K 30/10	NEW
H10K 30/15	H10K 30/15	NEW
H10K 30/151	H10K 30/15	NEW
H10K 30/152	H10K 30/15	NEW
H10K 30/20	H10K 30/20	NEW
H10K 30/211	H10K 30/20	NEW
H10K 30/30	H10K 30/30	NEW
H10K 30/35	H10K 30/35	NEW
H10K 30/352	H10K 30/35	NEW
H10K 30/353	H10K 30/30	NEW
H10K 30/354	H10K 30/00	NEW
H10K 30/40	H10K 30/40	NEW
H10K 30/451	H10K 30/00	NEW
H10K 30/50	H10K 30/50	NEW
H10K 30/53	H10K 30/53	NEW
H10K 30/57	H10K 30/57	NEW
H10K 30/60	H10K 30/60	NEW
H10K 30/65	H10K 30/65	NEW
H10K 30/671	H10K 30/00	NEW
H10K 30/80	H10K 30/80	NEW
H10K 30/81	H10K 30/81	NEW
H10K 30/82	H10K 30/82	NEW

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H10K 30/821	H10K 30/82	NEW
H10K 30/83	H10K 30/83	NEW
H10K 30/84	H10K 30/84	NEW
H10K 30/85	H10K 30/85	NEW
H10K 30/86	H10K 30/86	NEW
H10K 30/865	H10K 30/80	NEW
H10K 30/87	H10K 30/87	NEW
H10K 30/88	H10K 30/88	NEW
H10K 30/89	H10K 30/89	NEW
H10K 39/00	H10K 39/00	NEW
H10K 39/10	H10K 39/10	NEW
H10K 39/12	H10K 39/12	NEW
H10K 39/15	H10K 39/15	NEW
H10K 39/18	H10K 39/18	NEW
H10K 39/30	H10K 39/30	NEW
H10K 39/32	H10K 39/32	NEW
H10K 39/34	H10K 39/34	NEW
H10K 39/36	H10K 39/36	NEW
H10K 39/38	H10K 39/38	NEW
H10K 39/401	H10K 39/00	NEW
H10K 39/501	H10K 39/00	NEW
H10K 39/601	H10K 39/00	NEW
H10K 39/621	H10K 39/00	NEW
H10K 50/00	H10K 50/00	NEW
H10K 50/10	H10K 50/10	NEW
H10K 50/11	H10K 50/11	NEW
H10K 50/115	H10K 50/115	NEW
H10K 50/12	H10K 50/12	NEW
H10K 50/121	H10K 50/12	NEW
H10K 50/125	H10K 50/125	NEW
H10K 50/13	H10K 50/13	NEW
H10K 50/131	H10K 50/13	NEW
H10K 50/135	H10K 50/135	NEW
H10K 50/14	H10K 50/14	NEW
H10K 50/15	H10K 50/15	NEW
H10K 50/155	H10K 50/155	NEW
H10K 50/156	H10K 50/15	NEW
H10K 50/157	H10K 50/15	NEW
H10K 50/16	H10K 50/16	NEW
H10K 50/165	H10K 50/165	NEW
H10K 50/166	H10K 50/16	NEW
H10K 50/167	H10K 50/16	NEW
H10K 50/17	H10K 50/17	NEW
H10K 50/171	H10K 50/17	NEW
H10K 50/18	H10K 50/18	NEW

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H10K 50/181	H10K 50/18	NEW
H10K 50/182	H10K 50/10	NEW
H10K 50/19	H10K 50/19	NEW
H10K 50/30	H10K 50/30	NEW
H10K 50/401	H10K 50/00	NEW
H10K 50/80	H10K 50/80	NEW
H10K 50/805	H10K 50/805	NEW
H10K 50/81	H10K 50/81	NEW
H10K 50/813	H10K 50/813	NEW
H10K 50/814	H10K 50/814	NEW
H10K 50/816	H10K 50/816	NEW
H10K 50/818	H10K 50/818	NEW
H10K 50/82	H10K 50/82	NEW
H10K 50/822	H10K 50/822	NEW
H10K 50/824	H10K 50/824	NEW
H10K 50/826	H10K 50/826	NEW
H10K 50/828	H10K 50/828	NEW
H10K 50/84	H10K 50/84	NEW
H10K 50/841	H10K 50/84	NEW
H10K 50/842	H10K 50/842	NEW
H10K 50/8423	H10K 50/842	NEW
H10K 50/8426	H10K 50/842	NEW
H10K 50/8428	H10K 50/842	NEW
H10K 50/844	H10K 50/844	NEW
H10K 50/8445	H10K 50/844	NEW
H10K 50/846	H10K 50/84	NEW
H10K 50/85	H10K 50/85	NEW
H10K 50/852	H10K 50/852	NEW
H10K 50/854	H10K 50/854	NEW
H10K 50/856	H10K 50/856	NEW
H10K 50/858	H10K 50/858	NEW
H10K 50/86	H10K 50/86	NEW
H10K 50/865	H10K 50/86	NEW
H10K 50/868	H10K 50/80	NEW
H10K 50/87	H10K 50/87	NEW
H10K 50/88	H10K 50/88	NEW
H10K 59/00	H10K 59/00	NEW
H10K 59/10	H10K 59/10	NEW
H10K 59/12	H10K 59/12	NEW
H10K 59/1201	H10K 59/12	NEW
H10K 59/121	H10K 59/121	NEW
H10K 59/1213	H10K 59/121	NEW
H10K 59/1216	H10K 59/121	NEW
H10K 59/122	H10K 59/122	NEW
H10K 59/123	H10K 59/123	NEW

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H10K 59/124	H10K 59/124	NEW
H10K 59/125	H10K 59/125	NEW
H10K 59/126	H10K 59/126	NEW
H10K 59/127	H10K 59/127	NEW
H10K 59/1275	H10K 59/127	NEW
H10K 59/128	H10K 59/128	NEW
H10K 59/129	H10K 59/129	NEW
H10K 59/13	H10K 59/13	NEW
H10K 59/131	H10K 59/131	NEW
H10K 59/1315	H10K 59/131	NEW
H10K 59/17	H10K 59/17	NEW
H10K 59/173	H10K 59/173	NEW
H10K 59/176	H10K 59/176	NEW
H10K 59/179	H10K 59/179	NEW
H10K 59/1795	H10K 59/179	NEW
H10K 59/18	H10K 59/18	NEW
H10K 59/19	H10K 59/19	NEW
H10K 59/221	H10K 59/10	NEW
H10K 59/30	H10K 59/30	NEW
H10K 59/32	H10K 59/32	NEW
H10K 59/35	H10K 59/35	NEW
H10K 59/351	H10K 59/35	NEW
H10K 59/352	H10K 59/35	NEW
H10K 59/353	H10K 59/35	NEW
H10K 59/38	H10K 59/38	NEW
H10K 59/40	H10K 59/40	NEW
H10K 59/50	H10K 59/50	NEW
H10K 59/60	H10K 59/60	NEW
H10K 59/65	H10K 59/65	NEW
H10K 59/70	H10K 59/70	NEW
H10K 59/751	H10K 59/00	NEW
H10K 59/771	H10K 59/00	NEW
H10K 59/80	H10K 59/80	NEW
H10K 59/805	H10K 59/80	NEW
H10K 59/8051	H10K 59/80	NEW
H10K 59/80515	H10K 59/80	NEW
H10K 59/80516	H10K 59/80	NEW
H10K 59/80517	H10K 59/80	NEW
H10K 59/80518	H10K 59/80	NEW
H10K 59/8052	H10K 59/80	NEW
H10K 59/80521	H10K 59/80	NEW
H10K 59/80522	H10K 59/80	NEW
H10K 59/80523	H10K 59/80	NEW
H10K 59/80524	H10K 59/80	NEW
H10K 59/82	H10K 59/82	NEW

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H10K 59/84	H10K 59/84	NEW
H10K 59/86	H10K 59/86	NEW
H10K 59/87	H10K 59/80	NEW
H10K 59/871	H10K 59/80	NEW
H10K 59/872	H10K 59/80	NEW
H10K 59/8721	H10K 59/80	NEW
H10K 59/8722	H10K 59/80	NEW
H10K 59/8723	H10K 59/80	NEW
H10K 59/873	H10K 59/80	NEW
H10K 59/8731	H10K 59/80	NEW
H10K 59/874	H10K 59/80	NEW
H10K 59/875	H10K 59/80	NEW
H10K 59/876	H10K 59/80	NEW
H10K 59/877	H10K 59/80	NEW
H10K 59/878	H10K 59/80	NEW
H10K 59/879	H10K 59/80	NEW
H10K 59/8791	H10K 59/80	NEW
H10K 59/8792	H10K 59/80	NEW
H10K 59/8793	H10K 59/80	NEW
H10K 59/8794	H10K 59/80	NEW
H10K 59/88	H10K 59/88	NEW
H10K 59/90	H10K 59/90	NEW
H10K 59/95	H10K 59/95	NEW
H10K 65/00	H10K 65/00	NEW
H10K 71/00	H10K 71/00	NEW
H10K 71/10	H10K 71/10	NEW
H10K 71/12	H10K 71/12	NEW
H10K 71/125	H10K 71/12	NEW
H10K 71/13	H10K 71/13	NEW
H10K 71/135	H10K 71/13	NEW
H10K 71/15	H10K 71/15	NEW
H10K 71/16	H10K 71/16	NEW
H10K 71/162	H10K 71/16	NEW
H10K 71/164	H10K 71/16	NEW
H10K 71/166	H10K 71/16	NEW
H10K 71/18	H10K 71/18	NEW
H10K 71/191	H10K 71/10	NEW
H10K 71/20	H10K 71/20	NEW
H10K 71/211	H10K 71/20	NEW
H10K 71/221	H10K 71/20	NEW
H10K 71/231	H10K 71/20	NEW
H10K 71/233	H10K 71/20	NEW
H10K 71/236	H10K 71/20	NEW
H10K 71/30	H10K 71/30	NEW
H10K 71/311	H10K 71/00	NEW

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H10K 71/40	H10K 71/40	NEW
H10K 71/421	H10K 71/40	NEW
H10K 71/441	H10K 71/40	NEW
H10K 71/50	H10K 71/50	NEW
H10K 71/60	H10K 71/60	NEW
H10K 71/611	H10K 71/60	NEW
H10K 71/621	H10K 71/00	NEW
H10K 71/70	H10K 71/70	NEW
H10K 71/80	H10K 71/80	NEW
H10K 71/811	H10K 71/00	NEW
H10K 71/821	H10K 71/00	NEW
H10K 71/831	H10K 71/00	NEW
H10K 71/841	H10K 71/00	NEW
H10K 71/851	H10K 71/00	NEW
H10K 71/861	H10K 71/00	NEW
H10K 77/00	H10K 77/00	NEW
H10K 77/10	H10K 77/10	NEW
H10K 77/111	H10K 77/10	NEW
H10K 85/00	H10K 85/00	NEW
H10K 85/10	H10K 85/10	NEW
H10K 85/111	H10K 85/10	NEW
H10K 85/113	H10K 85/10	NEW
H10K 85/1135	H10K 85/10	NEW
H10K 85/114	H10K 85/10	NEW
H10K 85/115	H10K 85/10	NEW
H10K 85/141	H10K 85/10	NEW
H10K 85/143	H10K 85/10	NEW
H10K 85/146	H10K 85/10	NEW
H10K 85/151	H10K 85/10	NEW
H10K 85/154	H10K 85/10	NEW
H10K 85/20	H10K 85/20	NEW
H10K 85/211	H10K 85/20	NEW
H10K 85/215	H10K 85/20	NEW
H10K 85/221	H10K 85/20	NEW
H10K 85/225	H10K 85/20	NEW
H10K 85/30	H10K 85/30	NEW
H10K 85/311	H10K 85/30	NEW
H10K 85/321	H10K 85/30	NEW
H10K 85/322	H10K 85/30	NEW
H10K 85/324	H10K 85/30	NEW
H10K 85/326	H10K 85/30	NEW
H10K 85/331	H10K 85/30	NEW
H10K 85/341	H10K 85/30	NEW
H10K 85/342	H10K 85/30	NEW
H10K 85/344	H10K 85/30	NEW

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H10K 85/346	H10K 85/30	NEW
H10K 85/348	H10K 85/30	NEW
H10K 85/351	H10K 85/30	NEW
H10K 85/361	H10K 85/30	NEW
H10K 85/371	H10K 85/30	NEW
H10K 85/381	H10K 85/30	NEW
H10K 85/40	H10K 85/40	NEW
H10K 85/50	H10K 85/50	NEW
H10K 85/60	H10K 85/60	NEW
H10K 85/611	H10K 85/60	NEW
H10K 85/615	H10K 85/60	NEW
H10K 85/621	H10K 85/60	NEW
H10K 85/622	H10K 85/60	NEW
H10K 85/623	H10K 85/60	NEW
H10K 85/624	H10K 85/60	NEW
H10K 85/625	H10K 85/60	NEW
H10K 85/626	H10K 85/60	NEW
H10K 85/631	H10K 85/60	NEW
H10K 85/633	H10K 85/60	NEW
H10K 85/636	H10K 85/60	NEW
H10K 85/649	H10K 85/60	NEW
H10K 85/652	H10K 85/60	NEW
H10K 85/653	H10K 85/60	NEW
H10K 85/654	H10K 85/60	NEW
H10K 85/655	H10K 85/60	NEW
H10K 85/656	H10K 85/60	NEW
H10K 85/6565	H10K 85/60	NEW
H10K 85/657	H10K 85/60	NEW
H10K 85/6572	H10K 85/60	NEW
H10K 85/6574	H10K 85/60	NEW
H10K 85/6576	H10K 85/60	NEW
H10K 85/658	H10K 85/60	NEW
H10K 85/701	H10K 85/00	NEW
H10K 85/731	H10K 85/00	NEW
H10K 85/761	H10K 85/00	NEW
H10K 85/791	H10K 85/00	NEW
H10K 99/00	H10K 99/00	NEW
H10K 2101/00	H10K 101/00	NEW
H10K 2101/10	H10K 101/10	NEW
H10K 2101/20	H10K 101/20	NEW
H10K 2101/25	H10K 101/25	NEW
H10K 2101/27	H10K 101/00	NEW
H10K 2101/30	H10K 101/30	NEW
H10K 2101/40	H10K 101/40	NEW
H10K 2101/50	H10K 101/50	NEW

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H10K 2101/60	H10K 101/60	NEW
H10K 2101/70	H10K 101/70	NEW
H10K 2101/80	H10K 101/00	NEW
H10K 2101/90	H10K 101/00	NEW
H10K 2102/00	H10K 102/00	NEW
H10K 2102/10	H10K 102/10	NEW
H10K 2102/101	H10K 102/10	NEW
H10K 2102/102	H10K 102/10	NEW
H10K 2102/103	H10K 102/10	NEW
H10K 2102/20	H10K 102/20	NEW
H10K 2102/301	H10K 102/00	NEW
H10K 2102/302	H10K 102/00	NEW
H10K 2102/3023	H10K 102/00	NEW
H10K 2102/3026	H10K 102/00	NEW
H10K 2102/3031	H10K 102/00	NEW
H10K 2102/3035	H10K 102/00	NEW
H10K 2102/311	H10K 102/00	NEW
H10K 2102/321	H10K 102/00	NEW
H10K 2102/331	H10K 102/00	NEW
H10K 2102/341	H10K 102/00	NEW
H10K 2102/351	H10K 102/00	NEW
H10K 2102/361	H10K 102/00	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 not 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.

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5. CROSS-REFERENCE LIST (CRL)

Scheme references impacted by this revision project

<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Action; New reference symbol; New text</u>
B41M 3/00	H01L 51/0004	Replace the symbol with: H10K 71/13
H01L WARNING	H01L 51/0001	Replace the symbol with: H10K 71/00
H01L WARNING	H01L 51/0032	Replace the symbol with: H10K 85/00
H01L 21/02601	H01L 51/0046	Replace the symbol with: H10K 85/211
H01L 21/02606	H01L 51/0048	Replace the symbol with: H10K 85/211
H01L 21/64	H01L 51/00	Replace the symbol with: H10K 99/00
H01L 23/00 NOTE	Replace H01L 31/00 - H01L 51/00	Replace the symbol range with: H01L 31/00, H01L 33/00, H10K 30/00, H10K 50/00, H10K 59/00, H10K 71/00, H10K 85/00, H10K 99/00, H10N 10/00, H10N 30/00, H10N 35/00, H10N 50/00, H10N 52/00 and H10N 60/00
H01L 24/00 NOTE	H01L 31/00 - H01L 51/00	Replace the symbol range with: H01L 31/00, H01L 33/00, H10K 30/00, H10K 50/00, H10K 59/00, H10K 71/00, H10K 85/00, H10K 99/00, H10N 10/00, H10N 30/00, H10N 35/00, H10N 50/00, H10N 52/00 and H10N 60/00
H01L 24/00 NOTE	H01L 24/80	H01L 23/58
H01L 27/00	H01L 51/00	Replace the symbol with: H10K 10/00

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<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Action; New reference symbol; New text</u>
H01L 29/00	H01L 51/05 take precedence; processes or apparatus adapted for the manufacture or treatment thereof or of parts thereof H01L 21/00; details other than of semiconductor bodies or of electrodes thereof H01L 23/00; devices consisting of a plurality of solid state components formed in or on a common substrate H01L 27/00; {passive two-terminal components without a potential-jump or surface barrier for integrated circuits, details thereof and multistep manufacturing processes therefor H01L 28/00; } resistors in general H01C; capacitors in general H01G, {e.g. ceramic barrier-layer capacitors H01G 4/1272}	<u>Replace</u> the text beginning with “H01L 51/05” with: H10K 10/00, H10N take precedence; details other than of semiconductor bodies or of electrodes thereof H01L 23/00; devices consisting of a plurality of solid state components formed in or on a common substrate H01L 27/00 {; passive two-terminal components without a potential-jump or surface barrier for integrated circuits, details thereof and multistep manufacturing processes therefor H01L 28/00;}
H01L 29/0669	H01L 51/0048	<u>Replace</u> the symbol with: H10K 85/211
H01L29/24	H01L51/00	<u>Replace</u> the symbol with: H10K 99/00
H01L29/413	H01L51/444	<u>Replace</u> the symbol with: H10K 30/821
H01L31/00	H01L51/42	<u>Replace</u> the symbol with: H10K 30/00
H01L 31/0203	H01L 51/44	<u>Replace</u> the symbol with: H10K 30/80
H01L 31/035227	H01L 51/0048	<u>Replace</u> the symbol with: H10K 85/211
H01L 33/00	H01L 51/50	<u>Replace</u> the symbol with: H10K 50/00
H01L 2225/03	H01L51/00	<u>Replace</u> the symbol with: H01L 33/648 and H10K 99/00
H01M 14/00	H01L 51/42	<u>Replace</u> the symbol with: H10K 30/00
NOTE		
H02S	H01L 51/42	<u>Replace</u> the symbol with: H10K 30/00
H02S 30/00	H01L 51/42	<u>Replace</u> the symbol with: H10K 30/00

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Definitions references impacted by this revision project

<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Section of definition</u>	<u>Action; New reference symbol; New text</u>
B41M 5/0041	H01L 51/0005	Informative references	<u>Replace</u> the symbol with: H10K 71/135
B41M 5/382	H01L 51/0013	Informative references	<u>Replace</u> the symbol with: H10K 71/18
C03C	H01L 51/52	Informative references	<u>Replace</u> the symbol with: H10K 50/80
C04B 35/453	H01L 51/4233	Informative references	<u>Replace</u> the symbol with: H10K 30/152
C04B 35/457	H01L 51/442	Informative references	<u>Replace</u> the symbol with: H10K 30/82
C04B 35/46	H01L 51/4226	Informative references	<u>Replace</u> the symbol with: H10K 30/151
C07C 13/00	H01L 51/50	Informative references	<u>Replace</u> the symbol with: H10K 50/00
C07C 15/00	H01L 51/50	Informative references	<u>Replace</u> the symbol with: H10K 50/00
C07C 22/00	H01L 51/00	Informative references	<u>Replace</u> the symbol with: H10K 99/00
C07C 23/00	H01L 51/00	Informative references	<u>Replace</u> the symbol with: H10K 99/00
C07C 25/00	H01L 51/00	Informative references	<u>Replace</u> the symbol with: H10K 99/00
C07D	H01L 51/00	Application-oriented references	<u>Replace</u> the symbol with: H10K 99/00
C07F	H01L 51/50	Informative references	<u>Replace</u> the symbol with: H10K 50/00
C08G 61/00	H01L 51/0034	Informative references	<u>Replace</u> the symbol with: H10K 85/10
C08L 65/00	H01L 51/0034	Informative references	<u>Replace</u> the symbol with: H10K 85/10
C09B	H01L 51/00	Informative references	<u>Replace</u> the symbol with: H10K 99/00
C09D 165/00	H01L 51/0034	Informative references	<u>Replace</u> the symbol with: H10K 85/10
C23C 18/00	H01L 51/00	Informative references	<u>Replace</u> the symbol with: H10K 99/00
F21K 2/00	H01L 51/50	Informative references	<u>Replace</u> the symbol with: H10K 50/00
F21K 9/00	H01L 51/50	Informative references	<u>Replace</u> reference symbol with: H10K 50/00
F21K 99/00	H01L 51/50	References out of a residual place	<u>Replace</u> the symbol with: H10K 50/00

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<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Section of definition</u>	<u>Action; New reference symbol; New text</u>
F21L	H01L 51/50	Informative references	<u>Replace</u> the symbol with: H10K 50/00
F21S	H01L 51/50	Informative references	<u>Replace</u> the symbol with: H10K 50/00
F21V	H01L 51/50	Informative references	<u>Replace</u> the symbol with: H10K 50/00
G01J	H01L 51/42	Informative references	<u>Replace</u> the symbol with: H10K 30/00
G01J	H01L 51/50	Informative references	<u>Replace</u> the symbol with: H10K 50/00
G02B	H01L 27/32	Informative references	<u>Replace</u> the symbol with: H10K 59/00
G02B 6/42	H01L 51/5262	Informative references	<u>Replace</u> the symbol with: H10K 50/85
G03F 7/0002	H01L 51/0004	Informative references	<u>Replace</u> the symbol with: H10K 71/13
G06F 3/0412	H01L 27/323	Informative references	<u>Replace</u> the symbol with: H10K 59/40
G06F 3/0412	H01L 27/323	Special rules	<u>Replace</u> the symbol with: H10K 59/40
G09F	H01L 27/32	Informative references	<u>Replace</u> the symbol with: H10K 59/00
G09F	H01L 27/3293	Informative references	<u>Replace</u> the symbol with: H10K 59/18
G09F 9/00	H01L 27/32	Informative references	<u>Replace</u> the symbol with: H10K 59/00
G09F 9/00	H01L 27/3293	Informative references	<u>Replace</u> the symbol with: H10K 59/18
G09G	H01L 51/50	Limiting references	<u>Replace</u> the symbol with: H10K 50/00
H01G 9/20	H01L 51/42	Limiting references	<u>Replace</u> the symbol with: H10K 30/00
H01J	H01L 27/32	Informative references	<u>Replace</u> the symbol with: H10K 59/00
H01J 11/00	H01L 27/32	Informative references	<u>Replace</u> the symbol with: H10K 59/00
H01J 11/00	H01L 51/50	Informative references	<u>Replace</u> the symbol with: H10K 50/00
H01J 17/00	H01L 27/32	Informative references	<u>Replace</u> the symbol with: H10K 59/00
H01J 17/00	H01L 51/50	Informative references	<u>Replace</u> the symbol with: H10K 50/00
H01J 31/00	H01L 27/32	Informative references	<u>Replace</u> the symbol with: H10K 59/00
H01J 31/00	H01L 51/50	Informative references	<u>Replace</u> the symbol with: H10K 50/00

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H01L 21/00	H01L 51/00	Informative references	<u>Replace</u> the symbol with: H01L31/00, H01L33/00, H10K30/00, H10K50/00, H10K59/00, H10K71/00, H10K85/00, H10K 99/00, H10N10/00, H10N30/00, H10N35/00, H10N50/00, H10N52/00, H10N60/00
H01L 21/00	H01L 51/00	Informative references	<u>Replace</u> the symbol with: H01L31/00, H01L33/00, H10K30/00, H10K50/00, H10K59/00, H10K71/00, H10K85/00, H10K 99/00, H10N10/00, H10N30/00, H10N35/00, H10N50/00, H10N52/00, H10N60/00
H01L 21/02365	H01L 51/0001	Informative references	<u>Replace</u> the symbol with: H10K 71/00
H01L 21/02365	H01L 51/0046	Informative references	<u>Replace</u> the symbol with: H10K 85/211
H01L 21/02606	H01L 51/0048	Limiting references	<u>Replace</u> the symbol with: H10K 85/221
H01L 21/0405	H01L 51/0046	Limiting references	<u>Replace</u> the symbol with: H10K 85/211
H01L 21/0405	H01L 51/0048	Limiting references	<u>Replace</u> the symbol with: H10K 85/221
H01L 21/77	H01L 27/30	Informative references	<u>Replace</u> the symbol with: H10K 39/00 – H10K 39/36, H10K 65/00
H01L 21/77	H01L 27/32	Informative references	<u>Replace</u> the symbol with: H10K 59/00
H01L 21/77	H01L 27/32	Limiting references	<u>Replace</u> the existing symbol range with: H01L 27/14, H01L27 /15, H10N 19/00, H10N 39/00, H10N 59/00, H10N 79/00, H10N 89/00, H10K 19/00, H10K 39/00, H10K 59/00 and H10K 65/00
H01L 21/77	H01L 27/32	Limiting references	<u>Replace</u> the existing symbol range with: H01L 27/14, H01L27 /15, H10N 19/00, H10N 39/00, H10N 59/00, H10N 79/00, H10N 89/00, H10K 19/00, H10K 39/00, H10K 59/00 and H10K 65/00

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<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Section of definition</u>	<u>Action; New reference symbol; New text</u>
H01L 21/77	H01L 27/32	Special rules	<u>Replace</u> the existing symbol range with: H01L 27/14, H01L27 /15, H10N 19/00, H10N 39/00, H10N 59/00, H10N 79/00, H10N 89/00, H10K 19/00, H10K 39/00, H10K 59/00 and H10K 65/00
H01L 23/00	H01L 51/00	Limiting references	<u>Replace</u> the symbol with: H10K 99/00
H01L 23/00	H01L 51/00	Limiting references	<u>Replace</u> the symbol with: H10K 99/00
H01L 24/00	H01L 51/00	Limiting references	<u>Replace</u> the symbol with: H10K 99/00
H01L 24/00	H01L 51/00	Limiting references	<u>Replace</u> the symbol with: H10K 99/00
H01L 24/00	H01L 51/00	Limiting references	<u>Replace</u> the symbol with: H10K 99/00
H01L 25/00	H01L 27/32	Informative references	<u>Replace</u> the symbol with: H10K 59/00
H01L 25/00	H01L 51/50	Informative references	<u>Replace</u> the symbol with: H10K 50/00
H01L 27/00	H01L 29/00 - H01L 51/00	Informative references	<u>Replace</u> the symbol range with: H01L 29/00 - H01L 33/00, H10K 99/00, H10N 10/00, H10N 15/00, H10N 30/00, H10N 35/00, H10N 50/00, H10N52/00, H10N 60/00, H10N 70/00, H10N 80/00, H10N 97/00, H10N 99/00
H01L 27/00	H01L 51/0001	Informative references	<u>Replace</u> the symbol with: H10K 71/00
H01L 27/00	H01L 51/5237	Informative references	<u>Replace</u> the symbol with: H10K 50/84
H01L 27/00	H01L 51/56	Informative references	<u>Replace</u> the symbol with: H10K 71/00
H01L 27/00	H01L 31/00 - H01L 51/00	Limiting references	<u>Replace</u> the symbol range with: H01L31/00, H01L33/00, H10K30/00, H10K50/00, H10K59/00, H10K71/00, H10K85/00, H10K 99/00, H10N10/00, H10N30/00, H10N35/00, H10N50/00, H10N52/00, H10N60/00

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<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Section of definition</u>	<u>Action; New reference symbol; New text</u>
H01L 27/00	H01L 51/00	Limiting references	<u>Replace</u> the symbol with: H01L31/00, H01L33/00, H10K30/00, H10K50/00, H10K59/00, H10K71/00, H10K85/00, H10K 99/00, H10N10/00, H10N30/00, H10N35/00, H10N50/00, H10N52/00, H10N60/00
H01L 27/00	H01L 27/3244	Relationship	<u>Replace</u> the symbol with: H10K 59/12
H01L 27/12	H01L 27/3244	Limiting references	<u>Replace</u> the symbol with: H10K 59/12
H01L 27/142	H01L51/42	Informative references	<u>Replace</u> the symbol with: H10K 30/00
H01L 27/144	H01L 27/305	Informative references	<u>Replace</u> the symbol with: H10K 39/30
H01L 27/146	H01L 27/307	Special rules	<u>Replace</u> the symbol with: H10K 39/32
H01L 27/15	H01L 27/32	Informative references	<u>Replace</u> the symbol with: H10K 59/00
H01L 29/00	H01L 51/00	Limiting references	<u>Replace</u> the symbol with: H10K 99/00
H01L 29/00	H01L 51/00	Limiting references	<u>Replace</u> the symbol with: H10K 99/00
H01L 31/00	H01L 51/42	Limiting references	<u>Replace</u> the symbol with: H10K 30/00
H01L 31/0203	H01L 51/52	Informative references	<u>Replace</u> the symbol with: H10K 50/80
H01L 31/0203	H01L 51/448	Limiting references	<u>Replace</u> the symbol with: H10K 30/88
H01L 31/0216	H01L 51/448	Informative references	<u>Replace</u> the symbol with: H10K 30/88
H01L 31/0224	H01L 51/441	Limiting references	<u>Replace</u> the symbol with: H10K 30/81
H01L 31/022466	H01L 51/442	Informative references	<u>Replace</u> the symbol with: H10K 30/82
H01L 31/0256	H01L 51/42	Limiting references	<u>Replace</u> the symbol with: H10K 30/00
H01L 31/0264	H01L 51/0032	Informative references	<u>Replace</u> the symbol with: H10K 85/00
H01L 31/0352	H01L 51/4266	Relationship	<u>Replace</u> the symbol with: H10K 30/352
H01L 31/04	H01L 51/42	Limiting references	<u>Replace</u> the symbol with: H10K 30/00
H01L 31/04	H01L 51/42	Relationship	<u>Replace</u> the symbol with: H10K 30/00
H01L 31/048	H01L 51/448	Informative references	<u>Replace</u> the symbol with: H10K 30/88
H01L 31/12	H01L 27/288	Limiting references	<u>Replace</u> the symbol with: H10K 65/00

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<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Section of definition</u>	<u>Action; New reference symbol; New text</u>
H01L 31/1884	H01L 51/442	Informative references	<u>Replace</u> the symbol with: H10K 30/82
H01L 33/00	H01L 51/50	Limiting references	<u>Replace</u> the symbol with: H10K 50/00
H01L 33/48	H01L 51/52	Informative references	<u>Replace</u> the symbol with: H10K 50/80
H01L 33/483	H01L 51/5237	Informative references	<u>Replace</u> the symbol with: H10K 50/84
H01L 33/483	H01L 51/524	Informative references	<u>Replace</u> the symbol with: H10K 50/841
H01L 33/50	H01L 51/5237	Informative references	<u>Replace</u> the symbol with: H10K 50/84
H01L 33/52	H01L 51/5237	Informative references	<u>Replace</u> the symbol with: H10K 50/84
H01L 33/58	H01L 51/5262	Informative references	<u>Replace</u> the symbol with: H10K 50/85
H01L 33/58	H01L 51/5281	Informative references	<u>Replace</u> the symbol with: H10K 50/86
H01L 33/60	H01L 51/5271	Informative references	<u>Replace</u> the symbol with: H10K 50/856
H01M	H01L 51/42	Informative references	<u>Replace</u> the symbol with: H10K 30/00
H01M 8/00	H01L 51/42	Informative references	<u>Replace</u> the symbol with: H10K 30/00
H01M 14/005	H01L 51/42	Limiting references	<u>Replace</u> the symbol with: H10K 30/00
H01M 14/005	H01L 51/42	Relationship	<u>Replace</u> the symbol with: H10K 30/00
H01S 5/00	H01L 51/50	Relationship	<u>Replace</u> the symbol with: H10K 50/00
H02S	H01L 51/42	Limiting references	<u>Replace</u> the symbol with: H10K 30/00
H02S 30/00	H01L 51/42	Limiting references	<u>Replace</u> the symbol with: H10K 30/00
H03F	H01L 51/00	Informative references	<u>Replace</u> the symbol with: H10K 99/00
H05B	H01L 27/32	References out of a residual place	<u>Replace</u> the symbol with: H10K 59/00
H05B	H01L 51/50	References out of a residual place	<u>Replace</u> the symbol with: H10K 50/00
H05B 33/00	H01L 27/32	Informative references	<u>Replace</u> the symbol with: H10K 59/00
H05B 33/00	H01L 51/50	Informative references	<u>Replace</u> the symbol with: H10K 50/00
H05B 44/00	H01L 51/00	Informative references	<u>Replace</u> the symbol with: H10K 99/00
H05B 45/00	H01L 51/50	Informative references	<u>Replace</u> the symbol with: H10K 50/00

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DATE: FEBRUARY 1, 2023

PROJECT RP11801

<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Section of definition</u>	<u>Action; New reference symbol; New text</u>
H05K 1/00	H01L 51/00	Informative references	<u>Replace</u> the symbol with: H10K 99/00

NOTES:

- The CRL tables above are used for changes to locations **outside** of the project scope. Changes to references in scheme titles or definitions **inside** the project scope will be reflected in the “scheme change” template or one of the “definition” templates.
- 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.