

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1700

DATE: JANUARY 1, 2025

PROJECT RP12457

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 | 27/15, 27/153, 27/156 |
| | H01L | 33/00, 33/0004, 33/0008, 33/0012, 33/0016, 33/002, 33/0025, 33/0029, 33/0033, 33/0037, 33/0041, 33/0045, 33/005, 33/0054, 33/0058, 33/0062, 33/0066, 33/007, 33/0075, 33/0083, 33/0087, 33/0091, 33/0093, 33/0095, 33/02, 33/025, 33/04, 33/06, 33/08, 33/10, 33/105, 33/12, 33/14, 33/145, 33/16, 33/18, 33/20, 33/22, 33/24, 33/26, 33/28, 33/285, 33/30, 33/305, 33/32, 33/325, 33/34, 33/343, 33/346, 33/36, 33/38, 33/382, 33/385, 33/387, 33/40, 33/405, 33/42, 33/44, 33/46, 33/465, 33/48, 33/483, 33/486, 33/50, 33/501, 33/502, 33/504, 33/505, 33/507, 33/508, 33/52, 33/54, 33/56, 33/58, 33/60, 33/62, 33/64, 33/641, 33/642, 33/644, 33/645, 33/647, 33/648 |
| | H01L | 2933/00, 2933/0008, 2933/0016, 2933/0025, 2933/0033, 2933/0041, 2933/005, 2933/0058, 2933/0066, 2933/0075, 2933/0083, 2933/0091 |
| Symbols New: | H10H | SUBCLASS |

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|---------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | H10H | 20/00, 20/01, 20/011, 20/012, 20/0125, 20/013, 20/0133, 20/01335, 20/0137, 20/014, 20/0145, 20/016, 20/0165, 20/017, 20/018, 20/019, 20/021, 20/032, 20/034, 20/036, 20/0361, 20/0362, 20/0363, 20/0364, 20/0365, 20/042, 20/052, 20/062, 20/80, 20/81, 20/811, 20/812, 20/813, 20/8131, 20/8132, 20/8133, 20/814, 20/8142, 20/815, 20/816, 20/8162, 20/817, 20/818, 20/819, 20/82, 20/821, 20/8215, 20/822, 20/823, 20/8232, 20/824, 20/8242, 20/825, 20/8252, 20/826, 20/8262, 20/8264, 20/83, 20/831, 20/8312, 20/8314, 20/8316, 20/832, 20/833, 20/835, 20/84, 20/841, 20/85, 20/8502, 20/8504, 20/8506, 20/8508, 20/851, 20/8511, 20/8512, 20/8513, 20/8514, 20/8515, 20/8516, 20/852, 20/853, 20/854, 20/855, 20/856, 20/857, 20/858, 20/8581, 20/8582, 20/8583, 20/8584, 20/8585, 20/8586, 20/862, 20/872, 20/882 |
| | H10H | 29/00, 29/01, 29/011, 29/012, 29/02, 29/03, 29/032, 29/034, 29/036, 29/0361, 29/0362, 29/0363, 29/0364, 29/0365, 29/10, 29/14, 29/142, 29/20, 29/24, 29/30, 29/32, 29/34, 29/345, 29/352, 29/362, 29/37, 29/39, 29/41, 29/45, 29/49, 29/80, 29/832, 29/8321, 29/8322, 29/8323, 29/8325, 29/842, 29/8421, 29/85, 29/8506, 29/8508, 29/851, 29/8511, 29/8512, 29/8513, 29/8514, 29/8515, 29/8516, 29/8517, 29/852, 29/853, 29/854, 29/855, 29/8552, 29/856, 29/857, 29/858, 29/8581, 29/8582, 29/8583, 29/8584, 29/8585, 29/8586, 29/862, 29/872, 29/882, 29/922, 29/942, 29/962 |
| | H10H | 99/00 |
| Warnings New: | H10H | 20/01, 20/011, 20/014, 20/0145, 20/018, 20/019, 20/021, 20/032, 20/034, 20/036, 20/0361, 20/0362, 20/0363, 20/0364, 20/0365, 20/80, 20/811, 20/812, 20/813, 20/8131, 20/8132, 20/826, 20/8264, 20/83, 20/831, 20/832, 20/833, 20/835, 20/84, 20/841, 20/85, 20/8502, 20/8504, 20/8506, 20/8508, 20/851, 20/8511, 20/8512, 20/8513, 20/8514, 20/8515, 20/8516, 20/852, 20/853, 20/854, 20/855, 20/856, 20/857, 20/858, 20/8581, 20/8582, 20/8583, 20/8584, 20/8585, 20/8586, 20/862, 20/872, 20/882 |

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|------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | H10H | 29/01, 29/011, 29/032, 29/034, 29/036, 29/0361, 29/0362, 29/0363, 29/0364, 29/0365, 29/10, 29/14, 29/142, 29/30, 29/49, 29/80, 29/832, 29/8321, 29/8322, 29/8323, 29/8325, 29/842, 29/8421, 29/85, 29/8506, 29/8508, 29/851, 29/8511, 29/8512, 29/8513, 29/8514, 29/8515, 29/8516, 29/8517, 29/852, 29/853, 29/854, 29/855, 29/8552, 29/856, 29/857, 29/858, 29/8581, 29/8582, 29/8583, 29/8584, 29/8585, 29/8586, 29/862, 29/872, 29/882, 29/922, 29/942, 29/962 |
| Notes Deleted: | H01L | 33/00, 33/18, 33/48 |
| Notes New: | H10H | SUBCLASS |
| | H10H | 20/818, 20/822 |
| | H10H | 29/30, 29/80 |
| DEFINITIONS: | | |
| Definitions Deleted: (no frozen (F) symbol definitions should be deleted) | H01L | 27/15 |
| | H01L | 33/00, 33/0004, 33/0008, 33/0012, 33/0016, 33/002, 33/0025, 33/0029, 33/0033, 33/0037, 33/0041, 33/0045, 33/005, 33/0054, 33/0058, 33/0062, 33/0066, 33/007, 33/0075, 33/0083, 33/0087, 33/0091, 33/0093, 33/0095, 33/02, 33/025, 33/04, 33/06, 33/08, 33/10, 33/105, 33/12, 33/14, 33/145, 33/16, 33/18, 33/20, 33/22, 33/24, 33/28, 33/285, 33/30, 33/305, 33/32, 33/325, 33/34, 33/343, 33/346, 33/36, 33/38, 33/382, 33/385, 33/387, 33/40, 33/405, 33/42, 33/44, 33/46, 33/465, 33/48, 33/483, 33/486, 33/50, 33/501, 33/502, 33/504, 33/505, 33/507, 33/508, 33/52, 33/54, 33/56, 33/58, 33/60, 33/62, 33/64, 33/641, 33/642, 33/644, 33/645, 33/647, 33/648 |

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):

A61N 5/00, B05D 3/067, B29C 45/14639, B61L, C01G 9/00, C04B 35/58, F21K 2/00, F21K 9/00, F21K 9/64, F21K 99/00, F21L, F21S, F21S 43/28135, F21V, F21V 29/00, F21V 29/503, F28D, G01J, G01S 7/4814, G01S 7/484, G02B, G02B 6/0085, G02B 6/12, G02B 6/42, G02B 6/4204, G02B 6/425, G02B 6/43, G02B 17/0673, G02B 17/0868, G02B 19/00, G02B 19/0061, G02B 27/0916, G02F 1/23, G09F, G09F 9/00, G09G, G11B 7/125, G11B 7/127, H01J 11/00, H01J 17/00, H01J 31/00, H01L 21/00, H01L 21/77, H01L 21/78, H01L 23/00, H01L 24/00, H01L 25/03, H01L 25/075, H01L 25/13, H01L 25/16, H01L 25/18, H01L 2225/03, H01L 31/0203, H01L 31/022466,

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H01L 31/0236, H01L 31/12, H01L 31/1884, H01S, H01S 5/00, H01S 5/026, H05B, H05B 33/00, H05B 44/00, H05K 1/00, H05K 7/20, H10K 50/00, H10K 59/00

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 NOT COVERED BY CLASS H10

| 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# |
|--------------|---------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| D | H01L 27/15 | 1 | including semiconductor components having potential barriers, specially adapted for light emission | <administrative transfer to H10H 29/10> |
| D | H01L 27/153 | 2 | {in a repetitive configuration, e.g. LED bars} | <administrative transfer to H10H 29/14> |
| D | H01L 27/156 | 3 | {two-dimensional arrays} | <administrative transfer to H10H 29/142> |
| D | H01L 33/00 | 0 | Semiconductor devices having potential barriers specially adapted for light emission; Processes or apparatus specially adapted for the manufacture or treatment thereof or of parts thereof; Details thereof (H10K50/00 takes precedence; devices consisting of a plurality of semiconductor components formed in or on a common substrate and including semiconductor components having potential barriers, specially adapted for light emission H01L27/15; semiconductor lasers H01S5/00) | <administrative transfer to H10H 20/80> |
| D | H01L 33/004 | 1 | {Devices characterised by their operation} | <administrative transfer to H10H 20/00> |
| D | H01L 33/008 | 2 | {having p-n or hi-lo junctions} | <administrative transfer to H10H 20/81> |
| D | H01L 33/012 | 3 | {p-i-n devices} | <administrative transfer to H10H 20/81> |
| D | H01L 33/016 | 3 | {having at least two p-n junctions} | <administrative transfer to H10H 20/813> |
| D | H01L 33/002 | 2 | {having heterojunctions or graded gap} | <administrative transfer to H10H 20/811> |
| D | H01L 33/025 | 3 | {comprising only A _{III} B _V compounds} | <administrative transfer to H10H 20/811 and H10H 20/824 simultaneously> |

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| 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# |
|--------------|---------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| D | H01L 33/0029 | 3 | {comprising only A _{II} B _{VI} compounds} | <administrative transfer to H10H 20/811 and H10H 20/823 simultaneously> |
| D | H01L 33/0033 | 2 | {having Schottky barriers} | <administrative transfer to H10H 20/052> |
| D | H01L 33/0037 | 2 | {having a MIS barrier layer} | <administrative transfer to H10H 20/052> |
| D | H01L 33/0041 | 2 | {characterised by field-effect operation} | <administrative transfer to H10H 20/062> |
| D | H01L 33/0045 | 2 | {the devices being superluminescent diodes} | <administrative transfer to H10H 20/042> |
| D | H01L 33/005 | 1 | {Processes} | <administrative transfer to H10H 20/01> |
| D | H01L 33/0054 | 2 | {for devices with an active region comprising only group IV elements} | <administrative transfer to H10H 20/014> |
| D | H01L 33/0058 | 3 | {comprising a morphous semiconductors} | <administrative transfer to H10H 20/0145> |
| D | H01L 33/0062 | 2 | {for devices with an active region comprising only III-V compounds} | <administrative transfer to H10H 20/013> |
| D | H01L 33/0066 | 3 | {with a substrate not being a III-V compound} | <administrative transfer to H10H 20/0133> |
| D | H01L 33/007 | 4 | {comprising nitride compounds} | <administrative transfer to H10H 20/01335> |
| D | H01L 33/0075 | 3 | {comprising nitride compounds} | <administrative transfer to H10H 20/0137> |
| D | H01L 33/0083 | 2 | {for devices with an active region comprising only II-VI compounds} | <administrative transfer to H10H 20/012> |
| D | H01L 33/0087 | 3 | {with a substrate not being a II-VI compound} | <administrative transfer to H10H 20/0125> |
| D | H01L 33/0091 | 2 | {for devices with an active region comprising only IV-VI compounds} | <administrative transfer to H10H 20/011> |
| D | H01L 33/0093 | 2 | {Wafer bonding; Removal of the growth substrate} | <administrative transfer to H10H 20/018> |
| D | H01L 33/0095 | 2 | {Post-treatment of devices, e.g. annealing, recrystallisation or short-circuit elimination} | <administrative transfer to H10H 20/01> |
| D | H01L 33/02 | 1 | characterised by the semiconductor bodies | <administrative transfer to H10H 20/81> |
| D | H01L 33/025 | 2 | {Physical imperfections, e.g. particular concentration or distribution of impurities} | <administrative transfer to H10H 20/8215> |
| D | H01L 33/04 | 2 | with a quantum effect structure or superlattice, e.g. tunnel junction | <administrative transfer to H10H 20/811> |

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|--------------|---------------|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| D | H01L 33/06 | 3 | within the light emitting region, e.g. quantum confinement structure or tunnel barrier | <administrative transfer to H10H 20/812> |
| D | H01L 33/08 | 2 | with a plurality of light emitting regions, e.g. laterally discontinuous light emitting layer or photoluminescent region integrated within the semiconductor body (H01L27/15 takes precedence) | <administrative transfer to H10H 20/813> |
| D | H01L 33/10 | 2 | with a light reflecting structure, e.g. semiconductor Bragg reflector | <administrative transfer to H10H 20/814> |
| D | H01L 33/105 | 3 | {with a resonant cavity structure} | <administrative transfer to H10H 20/8142> |
| D | H01L 33/12 | 2 | with a stress relaxation structure, e.g. buffer layer | <administrative transfer to H10H 20/815> |
| D | H01L 33/14 | 2 | with a carrier transport control structure, e.g. highly-doped semiconductor layer or current-blocking structure | <administrative transfer to H10H 20/816> |
| D | H01L 33/145 | 3 | {with a current-blocking structure} | <administrative transfer to H10H 20/8162> |
| D | H01L 33/16 | 2 | with a particular crystal structure or orientation, e.g. polycrystalline, amorphous or porous | <administrative transfer to H10H 20/817> |
| D | H01L 33/18 | 3 | within the light emitting region | <administrative transfer to H10H 20/818> |
| D | H01L 33/20 | 2 | with a particular shape, e.g. curved or truncated substrate | <administrative transfer to H10H 20/819> |
| D | H01L 33/22 | 3 | Roughened surfaces, e.g. at the interface between epitaxial layers | <administrative transfer to H10H 20/82> |
| D | H01L 33/24 | 3 | of the light emitting region, e.g. non-planar junction | <administrative transfer to H10H 20/821> |
| D | H01L 33/26 | 2 | Materials of the light emitting region | <administrative transfer to H10H 20/822> |
| D | H01L 33/28 | 3 | containing only elements of Group II and Group VI of the Periodic Table | <administrative transfer to H10H 20/823> |
| D | H01L 33/285 | 4 | {characterised by the doping materials} | <administrative transfer to H10H 20/8232> |
| D | H01L 33/30 | 3 | containing only elements of Group III and Group V of the Periodic Table | <administrative transfer to H10H 20/824> |
| D | H01L 33/305 | 4 | {characterised by the doping materials} | <administrative transfer to H10H 20/8242> |

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|--------------|---------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| D | H01L 33/32 | 4 | containing nitrogen | <administrative transfer to H10H 20/825> |
| D | H01L 33/325 | 5 | {characterised by the doping materials} | <administrative transfer to H10H 20/8252> |
| D | H01L 33/34 | 3 | containing only elements of Group IV of the Periodic Table | <administrative transfer to H10H 20/826> |
| D | H01L 33/343 | 4 | {characterised by the doping materials} | <administrative transfer to H10H 20/8262> |
| D | H01L 33/346 | 4 | {containing porous silicon} | <administrative transfer to H10H 20/8264> |
| D | H01L 33/36 | 1 | characterised by the electrodes | <administrative transfer to H10H 20/83> |
| D | H01L 33/38 | 2 | with a particular shape | <administrative transfer to H10H 20/831> |
| D | H01L 33/382 | 3 | {the electrode extending partially in or entirely through the semiconductor body} | <administrative transfer to H10H 20/8312> |
| D | H01L 33/385 | 3 | {the electrode extending at least partially onto a side surface of the semiconductor body} | <administrative transfer to H10H 20/8314> |
| D | H01L 33/387 | 3 | {with a plurality of electrode regions in direct contact with the semiconductor body and being electrically interconnected by another electrode layer} | <administrative transfer to H10H 20/8316> |
| D | H01L 33/40 | 2 | Materials therefor | <administrative transfer to H10H 20/832> |
| D | H01L 33/405 | 3 | {Reflective materials} | <administrative transfer to H10H 20/835> |
| D | H01L 33/42 | 3 | Transparent materials | <administrative transfer to H10H 20/833> |
| D | H01L 33/44 | 1 | characterised by the coatings, e.g. passivation layer or anti-reflective coating | <administrative transfer to H10H 20/84> |
| D | H01L 33/46 | 2 | Reflective coating, e.g. dielectric Bragg reflector | <administrative transfer to H10H 20/841> |
| D | H01L 33/465 | 3 | {with a resonant cavity structure} | <administrative transfer to H10H 20/862> |
| D | H01L 33/48 | 1 | characterised by the semiconductor body packages | <administrative transfer to H10H 20/85> |
| D | H01L 33/483 | 2 | {Containers} | <administrative transfer to H10H 20/8506> |
| D | H01L 33/486 | 3 | {adapted for surface mounting} | <administrative transfer to H10H 20/8506> |
| D | H01L 33/50 | 2 | Wavelength conversion elements | <administrative transfer to H10H 20/851> |
| D | H01L 33/501 | 3 | {characterised by the materials, e.g. binder} | <administrative transfer to H10H 20/8511> |

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|--------------|---------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| D | H01L 33/502 | 4 | {Wavelength conversion materials} | <administrative transfer to H10H 20/8512 > |
| D | H01L 33/504 | 5 | {Elements with two or more wavelength conversion materials} | <administrative transfer to H10H 20/8513 > |
| D | H01L 33/505 | 3 | {characterised by the shape, e.g. plate or foil} | <administrative transfer to H10H 20/8514> |
| D | H01L 33/507 | 3 | {the elements being in intimate contact with parts other than the semiconductor body or integrated with parts other than the semiconductor body} | <administrative transfer to H10H 20/8515 > |
| D | H01L 33/508 | 3 | {having a non-uniform spatial arrangement or non-uniform concentration, e.g. patterned wavelength conversion layer, wavelength conversion layer with a concentration gradient of the wavelength conversion material} | <administrative transfer to H10H 20/8516 > |
| D | H01L 33/52 | 2 | Encapsulations | <administrative transfer to H10H 20/852> |
| D | H01L 33/54 | 3 | having a particular shape | <administrative transfer to H10H 20/853> |
| D | H01L 33/56 | 3 | Materials, e.g. epoxy or silicone resin | <administrative transfer to H10H 20/854> |
| D | H01L 33/58 | 2 | Optical field-shaping elements | <administrative transfer to H10H 20/855> |
| D | H01L 33/60 | 3 | Reflective elements | <administrative transfer to H10H 20/856> |
| D | H01L 33/62 | 2 | Arrangements for conducting electric current to or from the semiconductor body, e.g. lead-frames, wire-bonds or solder balls | <administrative transfer to H10H 20/857> |
| D | H01L 33/64 | 2 | Heat extraction or cooling elements | <administrative transfer to H10H 20/858> |
| D | H01L 33/641 | 3 | {characterized by the materials} | <administrative transfer to H10H 20/8581> |
| D | H01L 33/642 | 3 | {characterized by the shape} | <administrative transfer to H10H 20/8582> |
| D | H01L 33/644 | 3 | {in intimate contact or integrated with parts of the device other than the semiconductor body} | <administrative transfer to H10H 20/8583> |
| D | H01L 33/645 | 3 | {the elements being electrically controlled, e.g. Peltier elements} | <administrative transfer to H10H 20/8584> |

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|--------------|----------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| D | H01L 33/647 | 3 | {the elements conducting electric current to or from the semiconductor body} | <administrative transfer to H10H 20/8585> |
| D | H01L 33/648 | 3 | {the elements comprising fluids, e.g. heat-pipes} | <administrative transfer to H10H 20/8586> |
| D | H01L 2933/00 | 0 | Details relating to devices covered by the group H01L33/00 but not provided for in its subgroups | <administrative transfer to H10H 20/80> |
| D | H01L 2933/0008 | 1 | Processes | <administrative transfer to H10H 20/01> |
| D | H01L 2933/0016 | 2 | relating to electrodes | <administrative transfer to H10H 20/032> |
| D | H01L 2933/0025 | 2 | relating to coatings | <administrative transfer to H10H 20/034> |
| D | H01L 2933/0033 | 2 | relating to semiconductor body packages | <administrative transfer to H10H 20/036> |
| D | H01L 2933/0041 | 3 | relating to wavelength conversion elements | <administrative transfer to H10H 20/0361> |
| D | H01L 2933/005 | 3 | relating to encapsulations | <administrative transfer to H10H 20/0362> |
| D | H01L 2933/0058 | 3 | relating to optical field-shaping elements | <administrative transfer to H10H 20/0363> |
| D | H01L 2933/0066 | 3 | relating to arrangements for conducting electric current to or from the semiconductor body | <administrative transfer to H10H 20/0364> |
| D | H01L 2933/0075 | 3 | relating to heat extraction or cooling elements | <administrative transfer to H10H 20/0365> |
| D | H01L 2933/0083 | 1 | Periodic patterns for optical field-shaping in or on the semiconductor body or semiconductor body package, e.g. photonic bandgap structures | <administrative transfer to H10H 20/872> |
| D | H01L 2933/0091 | 1 | Scattering means in or on the semiconductor body or semiconductor body package (H01L33/22 takes precedence) | <administrative transfer to H10H 20/882> |

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SUBCLASS H10H - INORGANIC LIGHT-EMITTING SEMICONDUCTOR DEVICES HAVING POTENTIAL BARRIERS

| <u>Type*</u> | <u>Symbol</u> | <u>Indent Level</u> <u>Number of dots (e.g. 0, 1, 2)</u> | <u>Title</u> <u>“CPC only” text should</u> <u>normally be enclosed in</u> <u>{curly brackets}**</u> | <u>Transferred to#</u> |
|--------------|---------------|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N | H10H | Subclass | INORGANIC LIGHT-EMITTING SEMICONDUCTOR DEVICES HAVING POTENTIAL BARRIERS | |
| N | H10H 20/00 | 0 | Individual inorganic light-emitting semiconductor devices having potential barriers, e.g. light-emitting diodes [LED] | |
| Q | H10H 20/01 | 1 | Manufacture or treatment | H10H 20/01, H10H 20/011, H10H 20/016, H10H 20/0165, H10H 20/017, H10H 20/021, H10H 20/032, H10H 20/034, H10H 20/036, H10H 20/0362, H10H 20/0363, H10H 20/0364, H10H 20/0365, H10H 29/01, H10H 29/011, H10H 29/012, H10H 29/02, H10H 29/03, H10H 29/032, H10H 29/034, H10H 29/036, H10H 29/0361, H10H 29/0362, H10H 29/0363, H10H 29/0364, H10H 29/0365 |
| N | H10H 20/011 | 2 | {of bodies, e.g. forming semiconductor layers} | |
| N | H10H 20/012 | 3 | {having light-emitting regions comprising only Group II-IV materials} | |
| N | H10H 20/0125 | 4 | {with a substrate not being Group II-VI materials} | |
| N | H10H 20/013 | 3 | {having light-emitting regions comprising only Group III-V materials} | |
| N | H10H 20/0133 | 4 | {with a substrate not being Group III-V materials} | |
| N | H10H 20/01335 | 5 | {the light-emitting regions comprising nitride materials} | |
| N | H10H 20/0137 | 4 | {the light-emitting regions comprising nitride materials} | |

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| Q | H10H 20/014 | 3 | {having light-emitting regions comprising only Group IV materials} | H10H 20/014, H10H 20/0145 |
| N | H10H 20/0145 | 4 | {comprising polycrystalline, amorphous or porous Group IV materials} | |
| N | H10H 20/016 | 3 | {Thermal treatments} | |
| N | H10H 20/0165 | 4 | {for recrystallisation} | |
| N | H10H 20/017 | 3 | {Etching} | |
| Q | H10H 20/018 | 3 | {Bonding of wafers} | H10H 20/018, H10H 20/019 |
| N | H10H 20/019 | 3 | {Removal of at least a part of a substrate on which semiconductor layers have been formed} | |
| N | H10H 20/021 | 2 | {Singulating, e.g. dicing} | |
| Q | H10H 20/032 | 2 | {of electrodes} | H10H 20/032, H10H 29/032 |
| Q | H10H 20/034 | 2 | {of coatings} | H10H 20/034, H10H 29/034 |
| Q | H10H 20/036 | 2 | {of packages} | H10H 20/036, H10H 29/036 |
| Q | H10H 20/0361 | 3 | {of wavelength conversion means} | H10H 20/0361, H10H 29/0361 |
| Q | H10H 20/0362 | 3 | {of encapsulations} | H10H 20/0362, H10H 29/0362 |
| Q | H10H 20/0363 | 3 | {of optical field-shaping means} | H10H 20/0363, H10H 29/0363 |
| Q | H10H 20/0364 | 3 | {of interconnections} | H10H 20/0364, H10H 29/0364 |
| Q | H10H 20/0365 | 3 | {of means for heat extraction or cooling} | H10H 20/0365, H10H 29/0365 |
| N | H10H 20/042 | 1 | {Superluminescent diodes} | |
| N | H10H 20/052 | 1 | {Light-emitting semiconductor devices having Schottky type light-emitting regions; Light emitting semiconductor devices having Metal-Insulator-Semiconductor type light-emitting regions} | |
| N | H10H 20/062 | 1 | {Light-emitting semiconductor devices having field effect type light-emitting regions, e.g. light-emitting High-Electron Mobility Transistors} | |
| Q | H10H 20/80 | 1 | Constructional details | H10H 20/80, H10H 29/80, H10H 29/8517, H10H 29/8552 |
| N | H10H 20/81 | 2 | Bodies | |
| Q | H10H 20/811 | 3 | having quantum effect structures or superlattices, e.g. tunnel junctions | H10H 20/811, H10H 20/812 |

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| N | H10H 20/812 | 4 | within the light-emitting regions, e.g. having quantum confinement structures | |
| Q | H10H 20/813 | 3 | having a plurality of light-emitting regions, e.g. multi-junction LEDs or light-emitting devices having photoluminescent regions within the bodies | H10H 20/813, H10H 20/8131, H10H 20/8132, H10H 20/8133 |
| N | H10H 20/8131 | 4 | {Stacked light-emitting regions} | |
| N | H10H 20/8132 | 4 | {Laterally arranged light-emitting regions, e.g. nano-rods} | |
| N | H10H 20/8133 | 5 | {having core-shell structures} | |
| N | H10H 20/814 | 3 | having reflecting means, e.g. semiconductor Bragg reflectors | |
| N | H10H 20/8142 | 4 | {forming resonant cavity structures} | |
| N | H10H 20/815 | 3 | having stress relaxation structures, e.g. buffer layers | |
| N | H10H 20/816 | 3 | having carrier transport control structures, e.g. highly-doped semiconductor layers or current-blocking structures | |
| N | H10H 20/8162 | 4 | {Current-blocking structures} | |
| N | H10H 20/817 | 3 | characterised by the crystal structures or orientations, e.g. polycrystalline, amorphous or porous | |
| N | H10H 20/818 | 4 | within the light-emitting regions | |
| N | H10H 20/819 | 3 | characterised by their shape, e.g. curved or truncated substrates | |
| N | H10H 20/82 | 4 | Roughened surfaces, e.g. at the interface between epitaxial layers | |
| N | H10H 20/821 | 4 | of the light-emitting regions, e.g. non-planar junctions | |
| N | H10H 20/8215 | 3 | {characterised by crystalline imperfections, e.g. dislocations; characterised by the distribution of dopants, e.g. delta-doping} | |
| N | H10H 20/822 | 3 | Materials of the light-emitting regions | |
| N | H10H 20/823 | 4 | comprising only Group II-VI materials, e.g. ZnO | |

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| N | H10H 20/8232 | 5 | {characterised by the dopants} | |
| N | H10H 20/824 | 4 | comprising only Group III-V materials, e.g. GaP | |
| N | H10H 20/8242 | 5 | {characterised by the dopants} | |
| N | H10H 20/825 | 5 | containing nitrogen, e.g. GaN | |
| N | H10H 20/8252 | 6 | {characterised by the dopants} | |
| Q | H10H 20/826 | 4 | comprising only Group IV materials | H10H 20/826, H10H 20/8264 |
| N | H10H 20/8262 | 5 | {characterised by the dopants} | |
| N | H10H 20/8264 | 5 | {comprising polycrystalline, amorphous or porous Group IV materials} | |
| Q | H10H 20/83 | 2 | Electrodes | H10H 20/83, H10H 29/832 |
| Q | H10H 20/831 | 3 | characterised by their shape | H10H 20/831, H10H 29/8321 |
| N | H10H 20/8312 | 4 | {extending at least partially through the bodies} | |
| N | H10H 20/8314 | 4 | {extending at least partially onto an outer side surface of the bodies} | |
| N | H10H 20/8316 | 4 | {Multi-layer electrodes comprising at least one discontinuous layer} | |
| Q | H10H 20/832 | 3 | characterised by their material | H10H 20/832, H10H 29/8322 |
| Q | H10H 20/833 | 4 | Transparent materials | H10H 20/833, H10H 29/8323 |
| Q | H10H 20/835 | 4 | {Reflective materials} | H10H 20/835, H10H 29/8325 |
| Q | H10H 20/84 | 2 | Coatings, e.g. passivation layers or antireflective coatings | H10H 20/84, H10H 29/842, H10H 29/8517, H10H 29/8552 |
| Q | H10H 20/841 | 3 | Reflective coatings, e.g. dielectric Bragg reflectors | H10H 20/841, H10H 29/8421 |
| Q | H10H 20/85 | 2 | Packages | H10H 20/85, H10H 20/8504, H10H 20/8508, H10H 29/85, H10H 29/8508, H10H 29/8517, H10H 29/8552 |
| N | H10H 20/8502 | 3 | {Surface mount technology [SMT] type packages} | |
| N | H10H 20/8504 | 3 | {Chip-scale type packages} | |
| Q | H10H 20/8506 | 3 | {Containers} | H10H 20/8502, H10H 20/8504, H10H 20/8506, H10H 20/8508, H10H 29/8506, H10H 29/8508 |

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| N | H10H 20/8508 | 3 | {Package substrates, e.g. submounts} | |
| Q | H10H 20/851 | 3 | Wavelength conversion means | H10H 20/851, H10H 29/851 |
| Q | H10H 20/8511 | 4 | {characterised by their material, e.g. binder} | H10H 20/8511, H10H 29/8511 |
| Q | H10H 20/8512 | 5 | {Wavelength conversion materials} | H10H 20/8512, H10H 29/8512 |
| Q | H10H 20/8513 | 6 | {having two or more wavelength conversion materials} | H10H 20/8513, H10H 29/8513 |
| Q | H10H 20/8514 | 4 | {characterised by their shape, e.g. plate or foil} | H10H 20/8514, H10H 29/8514 |
| Q | H10H 20/8515 | 4 | {not being in contact with the bodies} | H10H 20/8515, H10H 29/8515 |
| Q | H10H 20/8516 | 4 | {having a non-uniform spatial arrangement or non-uniform concentration, e.g. patterned wavelength conversion layer or wavelength conversion layer with a concentration gradient} | H10H 20/8516, H10H 29/8516 |
| Q | H10H 20/852 | 3 | Encapsulations | H10H 20/852, H10H 29/852 |
| Q | H10H 20/853 | 4 | characterised by their shape | H10H 20/853, H10H 29/853 |
| Q | H10H 20/854 | 4 | characterised by their material, e.g. epoxy or silicone resins | H10H 20/854, H10H 29/854 |
| Q | H10H 20/855 | 3 | Optical field-shaping means, e.g. lenses | H10H 20/855, H10H 29/855, H10H 29/8552 |
| Q | H10H 20/856 | 4 | Reflecting means | H10H 20/856, H10H 29/856 |
| Q | H10H 20/857 | 3 | Interconnections, e.g. lead-frames, bond wires or solder balls | H10H 20/857, H10H 29/49, H10H 29/857, H10H 29/922, H10H 29/942 |
| Q | H10H 20/858 | 3 | Means for heat extraction or cooling | H10H 20/858, H10H 29/858 |
| Q | H10H 20/8581 | 4 | {characterised by their material} | H10H 20/8581, H10H 29/8581 |
| Q | H10H 20/8582 | 4 | {characterised by their shape} | H10H 20/8582, H10H 29/8582 |
| Q | H10H 20/8583 | 4 | {not being in contact with the bodies} | H10H 20/8583, H10H 29/8583 |
| Q | H10H 20/8584 | 4 | {electrically controlled, e.g. Peltier elements} | H10H 20/8584, H10H 29/8584 |
| Q | H10H 20/8585 | 4 | {being an interconnection} | H10H 20/8585, H10H 29/8585 |
| Q | H10H 20/8586 | 4 | {comprising fluids, e.g. heat-pipes} | H10H 20/8586, H10H 29/8586 |
| Q | H10H 20/862 | 2 | {Resonant cavity structures (formed by reflecting means | H10H 20/862, H10H 29/862 |

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| | | | in the bodies H10H 20/8142)} | |
| Q | H10H 20/872 | 2 | {Periodic patterns for optical field-shaping, e.g. photonic bandgap structures} | H10H 20/872, H10H 29/872 |
| Q | H10H 20/882 | 2 | {Scattering means (H10H 20/82 takes precedence)} | H10H 20/882, H10H 29/882 |
| N | H10H 29/00 | 0 | Integrated devices, or assemblies of multiple devices, comprising at least one light-emitting semiconductor element covered by group H10H 20/00 | |
| N | H10H 29/01 | 1 | Manufacture or treatment | |
| N | H10H 29/011 | 2 | {of integrated devices comprising at least one light-emitting semiconductor component covered by group H10H 20/00} | |
| N | H10H 29/012 | 2 | {of active-matrix LED displays} | |
| N | H10H 29/02 | 2 | using pick-and-place processes | |
| N | H10H 29/03 | 2 | using mass transfer of LEDs, e.g. by using liquid suspensions | |
| N | H10H 29/032 | 2 | {of electrodes} | |
| N | H10H 29/034 | 2 | {of coatings} | |
| N | H10H 29/036 | 2 | {of packages} | |
| N | H10H 29/0361 | 3 | {of wavelength conversion means} | |
| N | H10H 29/0362 | 3 | {of encapsulations} | |
| N | H10H 29/0363 | 3 | {of optical field-shaping means} | |
| N | H10H 29/0364 | 3 | {of interconnections} | |
| N | H10H 29/0365 | 3 | {of means for heat extraction or cooling} | |
| Q | H10H 29/10 | 1 | Integrated devices comprising at least one light-emitting semiconductor component covered by group H10H 20/00 (active-matrix LED displays H10H 29/30) | H10H 29/011, H10H 29/10, |
| Q | H10H 29/14 | 2 | comprising multiple light-emitting semiconductor components | H10H 29/011, H10H 29/14, H10H 29/922, H10H 29/942, H10H 29/962 |
| Q | H10H 29/142 | 3 | {Two-dimensional arrangements, e.g. asymmetric LED layout} | H10H 29/011, H10H 29/14, H10H 29/142, H10H 29/30, H10H 29/32, H10H 29/34, |

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| | | | | H10H 29/345, H10H 29/352, H10H 29/362, H10H 29/37, H10H 29/39, H10H 29/41, H10H 29/45, H10H 29/49, H10H 29/8517, H10H 29/8552, H10H 29/922, H10H 29/942, H10H 29/962 |
| N | H10H 29/20 | 1 | Assemblies of multiple devices comprising at least one light-emitting semiconductor device covered by group H10H 20/00 (active-matrix LED displays H10H 29/30) | |
| N | H10H 29/24 | 2 | comprising multiple light-emitting semiconductor devices | |
| N | H10H 29/30 | 1 | Active-matrix LED displays | |
| N | H10H 29/32 | 2 | characterised by the geometry or arrangement of elements within a subpixel, e.g. arrangement of the transistor within its RGB subpixel | |
| N | H10H 29/34 | 2 | characterised by the geometry or arrangement of subpixels within a pixel, e.g. relative disposition of the RGB subpixels | |
| N | H10H 29/345 | 3 | {the area of the subpixels being different} | |
| N | H10H 29/352 | 2 | {characterised by differences in geometry or arrangement of elements, subpixels or pixels in different regions of the display, e.g. at the central and peripheral regions} | |
| N | H10H 29/362 | 2 | {comprising more than three subpixels, e.g. red-green-blue-white [RGBW]} | |
| N | H10H 29/37 | 2 | Pixel-defining structures, e.g. banks between the LEDs | |
| N | H10H 29/39 | 2 | Connection of the pixel electrodes to the driving transistors | |
| N | H10H 29/41 | 2 | Insulating layers formed between the driving transistors and the LEDs | |
| N | H10H 29/45 | 2 | comprising two substrates, each having active devices thereon, e.g. displays | |

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| | | | comprising LED arrays and driving circuitry on different substrates | |
| N | H10H 29/49 | 2 | Interconnections, e.g. wiring lines or terminals (connection of the pixel electrodes to the driving transistors H10H 29/39) | |
| N | H10H 29/80 | 1 | Constructional details | |
| N | H10H 29/832 | 2 | {Electrodes} | |
| N | H10H 29/8321 | 3 | {characterised by their shape} | |
| N | H10H 29/8322 | 3 | {characterised by their materials} | |
| N | H10H 29/8323 | 4 | {Transparent materials} | |
| N | H10H 29/8325 | 4 | {Reflective materials} | |
| N | H10H 29/842 | 2 | {Coatings, e.g. passivation layers or antireflective coatings} | |
| N | H10H 29/8421 | 3 | {Reflective coatings, e.g. dielectric Bragg reflectors} | |
| N | H10H 29/85 | 2 | Packages | |
| N | H10H 29/8506 | 3 | {Containers} | |
| N | H10H 29/8508 | 3 | {Package substrates, e.g. submounts} | |
| N | H10H 29/851 | 3 | Wavelength conversion means | |
| N | H10H 29/8511 | 4 | {characterised by their material, e.g. binder} | |
| N | H10H 29/8512 | 5 | {Wavelength conversion materials} | |
| N | H10H 29/8513 | 6 | {having two or more wavelength conversion materials} | |
| N | H10H 29/8514 | 4 | {characterised by their shape, e.g. plate or foil} | |
| N | H10H 29/8515 | 4 | {not being in contact with the bodies} | |
| N | H10H 29/8516 | 4 | {having a non-uniform spatial arrangement or non-uniform concentration, e.g. patterned wavelength conversion layer, wavelength conversion layer with a concentration gradient} | |
| N | H10H 29/8517 | 3 | {Colour filters} | |
| N | H10H 29/852 | 3 | Encapsulations | |
| N | H10H 29/853 | 4 | characterised by their shape | |

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| N | H10H 29/854 | 4 | characterised by their material, e.g. epoxy or silicone resins | |
| N | H10H 29/855 | 3 | Optical field-shaping means, e.g. lenses | |
| N | H10H 29/8552 | 4 | {Light absorbing arrangements, e.g. black matrix} | |
| N | H10H 29/856 | 4 | Reflecting means | |
| N | H10H 29/857 | 3 | {Interconnections (of active-matrix LED displays H10H 29/49)} | |
| N | H10H 29/858 | 3 | {Means for heat extraction or cooling} | |
| N | H10H 29/8581 | 4 | {characterised by their material} | |
| N | H10H 29/8582 | 4 | {characterised by their shape} | |
| N | H10H 29/8583 | 4 | {not being in contact with the bodies} | |
| N | H10H 29/8584 | 4 | {electrically controlled, e.g. Peltier elements} | |
| N | H10H 29/8585 | 4 | {being an interconnection} | |
| N | H10H 29/8586 | 4 | {comprising fluids, e.g. heat-pipes} | |
| N | H10H 29/862 | 2 | {Resonant cavity structures} | |
| N | H10H 29/872 | 2 | {Periodic patterns for optical field-shaping, e.g. photonic bandgap structures} | |
| N | H10H 29/882 | 2 | {Scattering means} | |
| N | H10H 29/922 | 2 | {Parallel electrical configurations of multiple light-emitting semiconductor components or devices} | |
| N | H10H 29/942 | 2 | {Serial electrical configurations of multiple light-emitting semiconductor components or devices} | |
| N | H10H 29/962 | 2 | {Stacked configurations of light-emitting semiconductor components or devices, the components or devices emitting at different wavelengths} | |
| N | H10H 99/00 | 0 | Subject matter not provided for in other groups of this subclass | |

*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

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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.
- 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 finalisation 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 H10H - INORGANIC LIGHT-EMITTING SEMICONDUCTOR DEVICES HAVING POTENTIAL BARRIERS

| <u>Type*</u> | <u>Location</u> | <u>Old Warning</u> | <u>New/Modified Warning</u> |
|--------------|-----------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N | H10H 20/01 | | Group H10H 20/01 is impacted by reclassification into groups H10H 20/011, H10H 20/016, H10H 20/017, H10H 20/021, H10H 20/032, H10H 20/034, H10H 20/036, H10H 20/0362, H10H 20/0363, H10H 20/0364, H10H 20/0365, H10H 29/01, H10H 29/011, H10H 29/012, H10H 29/02, H10H 29/03, H10H 29/032, H10H 29/034, H10H 29/036, H10H 29/0361, H10H 29/0362, H10H 29/0363, H10H 29/0364 and H10H 29/0365. All groups listed in this Warning should be considered in order to perform a complete search. |
| N | H10H 20/011 | | Groups H10H 20/011, H10H 20/016, H10H 20/017 and H10H 20/0165 are incomplete pending reclassification of documents from group H10H 20/01. All groups listed in this Warning should be considered in order to perform a complete search. |
| N | H10H 20/014 | | Group H10H 20/014 is impacted by reclassification into group H10H 20/0145. Groups H10H 20/014 and H10H 20/0145 should be considered in order to perform a complete search. |
| N | H10H 20/0145 | | Group H10H 20/0145 is incomplete pending reclassification of documents from group H10H 20/014. Groups H10H 20/014 and H10H 20/0145 should be considered in order to perform a complete search. |
| N | H10H 20/018 | | Group H10H 20/018 is impacted by reclassification into group H10H 20/019. Groups H10H 20/018 and H10H 20/019 should be considered in order to perform a complete search. |
| N | H10H 20/019 | | Group H10H 20/019 is incomplete pending reclassification of documents from group H10H 20/018. Groups H10H 20/018 and H10H 20/019 |

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| <u>Type*</u> | <u>Location</u> | <u>Old Warning</u> | <u>New/Modified Warning</u> |
|--------------|-----------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | should be considered in order to perform a complete search. |
| N | H10H 20/021 | | Group H10H 20/021 is incomplete pending reclassification of documents from group H10H 20/01. Groups H10H 20/01 and H10H 20/021 should be considered in order to perform a complete search. |
| N | H10H 20/032 | | Group H10H 20/032 is incomplete pending reclassification of documents from group H10H 20/01. Group H10H 20/032 is also impacted by reclassification into group H10H 29/032. Groups H10H 20/01, H10H 20/032 and H10H 29/032 should be considered in order to perform a complete search. |
| N | H10H 20/034 | | Group H10H 20/034 is incomplete pending reclassification of documents from group H10H 20/01. Group H10H 20/034 is also impacted by reclassification into group H10H 29/034. Groups H10H 20/01, H10H 20/034 and H10H 29/034 should be considered in order to perform a complete search. |
| N | H10H 20/036 | | Group H10H 20/036 is incomplete pending reclassification of documents from group H10H 20/01. Group H10H 20/036 is also impacted by reclassification into group H10H 29/036. Groups H10H 20/01, H10H 20/036 and H10H 29/036 should be considered in order to perform a complete search. |
| N | H10H 20/0361 | | Group H10H 20/0361 is impacted by reclassification into group H10H 29/0361. Groups H10H 20/0361 and H10H 29/0361 should be considered in order to perform a complete search. |
| N | H10H 20/0362 | | Group H10H 20/0362 is incomplete pending reclassification of documents from group H10H 20/01. Group H10H 20/0362 is also impacted by reclassification into group H10H 29/0362. Groups H10H 20/01, H10H 20/0362 and H10H 29/0362 should be considered in order to perform a complete search. |

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| N | H10H 20/0363 | | Group H10H 20/0363 is incomplete pending reclassification of documents from group H10H 20/01. Group H10H 20/0363 is also impacted by reclassification into group H10H 29/0363. Groups H10H 20/01, H10H 20/0363 and H10H 29/0363 should be considered in order to perform a complete search. |
| N | H10H 20/0364 | | Group H10H 20/0364 is incomplete pending reclassification of documents from group H10H 20/01. Group H10H 20/0364 is also impacted by reclassification into group H10H 29/0364. Groups H10H 20/01, H10H 20/0364 and H10H 29/0364 should be considered in order to perform a complete search. |
| N | H10H 20/0365 | | Group H10H 20/0365 is incomplete pending reclassification of documents from group H10H 20/01. Group H10H 20/0365 is also impacted by reclassification into group H10H 29/0365. Groups H10H 20/01, H10H 20/0365 and H10H 29/0365 should be considered in order to perform a complete search. |
| N | H10H 20/80 | | Group H10H 20/80 is impacted by reclassification into groups H10H 29/80, H10H 29/8517 and H10H 29/8552. All groups listed in this Warning should be considered in order to perform a complete search. |
| N | H10H 20/811 | | Group H10H 20/811 is impacted by reclassification into group H10H 20/812. Groups H10H 20/811 and H10H 20/812 should be considered in order to perform a complete search. |
| N | H10H 20/812 | | Group H10H 20/812 is incomplete pending reclassification of documents from group H10H 20/811. Groups H10H 20/811 and H10H 20/812 should be considered in order to perform a complete search. |
| N | H10H 20/813 | | Group H10H 20/813 is impacted by reclassification into groups H10H 20/8131, H10H 20/8132 and H10H 20/8133. All groups listed in this Warning should be considered in order to perform a complete search. |

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| N | H10H 20/8131 | | Group H10H 20/8131 is incomplete pending reclassification of documents from group H10H 20/813. Groups H10H 20/813 and H10H 20/8131 should be considered in order to perform a complete search. |
| N | H10H 20/8132 | | Groups H10H 20/8132 and H10H 20/8133 are incomplete pending reclassification of documents from group H10H 20/813. Groups H10H 20/813, H10H 20/8132 and H10H 20/8133 should be considered in order to perform a complete search. |
| N | H10H 20/826 | | Group H10H 20/826 is impacted by reclassification into group H10H 20/8264. Groups H10H 20/826 and H10H 20/8264 should be considered in order to perform a complete search. |
| N | H10H 20/8264 | | Group H10H 20/8264 is incomplete pending reclassification of documents from group H10H 20/826. Groups H10H 20/826 and H10H 20/8264 should be considered in order to perform a complete search. |
| N | H10H 20/83 | | Group H10H 20/83 is impacted by reclassification into group H10H 29/832. Groups H10H 20/83 and H10H 29/832 should be considered in order to perform a complete search. |
| N | H10H 20/831 | | Group H10H 20/831 is impacted by reclassification into group H10H 29/8321. Groups H10H 20/831 and H10H 29/8321 should be considered in order to perform a complete search. |
| N | H10H 20/832 | | Group H10H 20/832 is impacted by reclassification into group H10H 29/8322. Groups H10H 20/832 and H10H 29/8322 should be considered in order to perform a complete search. |
| N | H10H 20/833 | | Group H10H 20/833 is impacted by reclassification into group H10H 29/8323. Groups H10H 20/833 and H10H 29/8323 should be considered in order to perform a complete search. |
| N | H10H 20/835 | | Group H10H 20/835 is impacted by reclassification into group |

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| | | | H10H 29/8325. Groups H10H 20/835 and H10H 29/8325 should be considered in order to perform a complete search. |
| N | H10H 20/84 | | Group H10H 20/84 is impacted by reclassification into groups H10H 29/842, H10H 29/8517 and H10H 29/8552. All groups listed in this Warning should be considered in order to perform a complete search. |
| N | H10H 20/841 | | Group H10H 20/841 is impacted by reclassification into group H10H 29/8421. Groups H10H 20/841 and H10H 29/8421 should be considered in order to perform a complete search. |
| N | H10H 20/85 | | Group H10H 20/85 is impacted by reclassification into groups H10H 20/8504, H10H 20/8508, H10H 29/85, H10H 29/8508, H10H 29/8517 and H10H 29/8552. All groups listed in this Warning should be considered in order to perform a complete search. |
| N | H10H 20/8502 | | Group H10H 20/8502 is incomplete pending reclassification of documents from group H10H 20/8506. Groups H10H 20/8506 and H10H 20/8502 should be considered in order to perform a complete search. |
| N | H10H 20/8504 | | Group H10H 20/8504 is incomplete pending reclassification of documents from groups H10H 20/85 and H10H 20/8506. Groups H10H 20/85, H10H 20/8506 and H10H 20/8504 should be considered in order to perform a complete search. |
| N | H10H 20/8506 | | Group H10H 20/8506 is impacted by reclassification into groups H10H 20/8502, H10H 20/8504, H10H 20/8508, H10H 29/8506 and H10H 29/8508. All groups listed in this Warning should be considered in order to perform a complete search. |
| N | H10H 20/8508 | | Group H10H 20/8508 is incomplete pending reclassification of documents from groups H10H 20/85 and H10H 20/8506. Groups H10H 20/85, H10H 20/8506 and H10H 20/8508 should be considered in order to perform a complete search. |

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| N | H10H 20/851 | | Group H10H 20/851 is impacted by reclassification into group H10H 29/851. Groups H10H 20/851 and H10H 29/851 should be considered in order to perform a complete search. |
| N | H10H 20/8511 | | Group H10H 20/8511 is impacted by reclassification into group H10H 29/8511. Groups H10H 20/8511 and H10H 29/8511 should be considered in order to perform a complete search. |
| N | H10H 20/8512 | | Group H10H 20/8512 is impacted by reclassification into group H10H 29/8512. Groups H10H 20/8512 and H10H 29/8512 should be considered in order to perform a complete search. |
| N | H10H 20/8513 | | Group H10H 20/8513 is impacted by reclassification into group H10H 29/8513. Groups H10H 20/8513 and H10H 29/8513 should be considered in order to perform a complete search. |
| N | H10H 20/8514 | | Group H10H 20/8514 is impacted by reclassification into group H10H 29/8514. Groups H10H 20/8514 and H10H 29/8514 should be considered in order to perform a complete search. |
| N | H10H 20/8515 | | Group H10H 20/8515 is impacted by reclassification into group H10H 29/8515. Groups H10H 20/8515 and H10H 29/8515 should be considered in order to perform a complete search. |
| N | H10H 20/8516 | | Group H10H 20/8516 is impacted by reclassification into group H10H 29/8516. Groups H10H 20/8516 and H10H 29/8516 should be considered in order to perform a complete search. |
| N | H10H 20/852 | | Group H10H 20/852 is impacted by reclassification into group H10H 29/852. Groups H10H 20/852 and H10H 29/852 should be considered in order to perform a complete search. |
| N | H10H 20/853 | | Group H10H 20/853 is impacted by reclassification into group H10H 29/853. Groups H10H 20/853 |

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| | | | and H10H 29/853 should be considered in order to perform a complete search. |
| N | H10H 20/854 | | Group H10H 20/854 is impacted by reclassification into group H10H 29/854. Groups H10H 20/854 and H10H 29/854 should be considered in order to perform a complete search. |
| N | H10H 20/855 | | Group H10H 20/855 is impacted by reclassification into groups H10H 29/855 and H10H 29/8552. Groups H10H 20/855, H10H 29/855 and H10H 29/8552 should be considered in order to perform a complete search. |
| N | H10H 20/856 | | Group H10H 20/856 is impacted by reclassification into group H10H 29/856. Groups H10H 20/856 and H10H 29/856 should be considered in order to perform a complete search. |
| N | H10H 20/857 | | Group H10H 20/857 is impacted by reclassification into groups H10H 29/49, H10H 29/857, H10H 29/922 and H10H 29/942. All groups listed in this Warning should be considered in order to perform a complete search. |
| N | H10H 20/858 | | Group H10H 20/858 is impacted by reclassification into group H10H 29/858. Groups H10H 20/858 and H10H 29/858 should be considered in order to perform a complete search. |
| N | H10H 20/8581 | | Group H10H 20/8581 is impacted by reclassification into group H10H 29/8581. Groups H10H 20/8581 and H10H 29/8581 should be considered in order to perform a complete search. |
| N | H10H 20/8582 | | Group H10H 20/8582 is impacted by reclassification into group H10H 29/8582. Groups H10H 20/8582 and H10H 29/8582 should be considered in order to perform a complete search. |
| N | H10H 20/8583 | | Group H10H 20/8583 is impacted by reclassification into group H10H 29/8583. Groups H10H 20/8583 and H10H 29/8583 |

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| | | | should be considered in order to perform a complete search. |
| N | H10H 20/8584 | | Group H10H 20/8584 is impacted by reclassification into group H10H 29/8584. Groups H10H 20/8584 and H10H 29/8584 should be considered in order to perform a complete search. |
| N | H10H 20/8585 | | Group H10H 20/8585 is impacted by reclassification into group H10H 29/8585. Groups H10H 20/8585 and H10H 29/8585 should be considered in order to perform a complete search. |
| N | H10H 20/8586 | | Group H10H 20/8586 is impacted by reclassification into group H10H 29/8586. Groups H10H 20/8586 and H10H 29/8586 should be considered in order to perform a complete search. |
| N | H10H 20/862 | | Group H10H 20/862 is impacted by reclassification into group H10H 29/862. Groups H10H 20/862 and H10H 29/862 should be considered in order to perform a complete search. |
| N | H10H 20/872 | | Group H10H 20/872 is impacted by reclassification into group H10H 29/872. Groups H10H 20/872 and H10H 29/872 should be considered in order to perform a complete search. |
| N | H10H 20/882 | | Group H10H 20/882 is impacted by reclassification into group H10H 29/882. Groups H10H 20/882 and H10H 29/882 should be considered in order to perform a complete search. |
| N | H10H 29/01 | | Groups H10H 29/01, H10H 29/012, H10H 29/02 and H10H 29/03 are incomplete pending reclassification of documents from group H10H 20/01. All groups listed in this Warning should be considered in order to perform a complete search. |
| N | H10H 29/011 | | Group H10H 29/011 is incomplete pending reclassification of documents from groups H10H 20/01, H10H 29/10, H10H 29/14 and H10H 29/142. All groups listed in this |

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| | | | Warning should be considered in order to perform a complete search. |
| N | H10H 29/032 | | Group H10H 29/032 is incomplete pending reclassification of documents from groups H10H 20/01 and H10H 20/032. Groups H10H 20/01, H10H 20/032 and H10H 29/032 should be considered in order to perform a complete search. |
| N | H10H 29/034 | | Group H10H 29/034 is incomplete pending reclassification of documents from groups H10H 20/01 and H10H 20/034. Groups H10H 20/01, H10H 20/034 and H10H 29/034 should be considered in order to perform a complete search. |
| N | H10H 29/036 | | Group H10H 29/036 is incomplete pending reclassification of documents from groups H10H 20/01 and H10H 20/036. Groups H10H 20/01, H10H 20/036 and H10H 29/036 should be considered in order to perform a complete search. |
| N | H10H 29/0361 | | Group H10H 29/0361 is incomplete pending reclassification of documents from groups H10H 20/01 and H10H 20/0361. Groups H10H 20/01, H10H 20/0361 and H10H 29/0361 should be considered in order to perform a complete search. |
| N | H10H 29/0362 | | Group H10H 29/0362 is incomplete pending reclassification of documents from groups H10H 20/01 and H10H 20/0362. Groups H10H 20/01, H10H 20/0362 and H10H 29/0362 should be considered in order to perform a complete search. |
| N | H10H 29/0363 | | Group H10H 29/0363 is incomplete pending reclassification of documents from groups H10H 20/01 and H10H 20/0363. Groups H10H 20/01, H10H 20/0363 and H10H 29/0363 should be considered in order to perform a complete search. |
| N | H10H 29/0364 | | Group H10H 29/0364 is incomplete pending reclassification of documents from groups H10H 20/01 and H10H 20/0364. Groups H10H 20/01, H10H 20/0364 and H10H 29/0364 should be considered in order to perform a complete search. |

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| N | H10H 29/0365 | | Group H10H 29/0365 is incomplete pending reclassification of documents from groups H10H 20/01 and H10H 20/0365. Groups H10H 20/01, H10H 20/0365 and H10H 29/0365 should be considered in order to perform a complete search. |
| N | H10H 29/10 | | Group H10H 29/10 is impacted by reclassification into group H10H 29/011. Groups H10H 29/10 and H10H 29/011 should be considered in order to perform a complete search. |
| N | H10H 29/14 | | Group H10H 29/14 is incomplete pending reclassification of documents from group H10H 29/142. Group H10H 29/14 is also impacted by reclassification into groups H10H 29/011, H10H 29/922, H10H 29/942 and H10H 29/962. All groups listed in this Warning should be considered in order to perform a complete search. |
| N | H10H 29/142 | | Group H10H 29/142 is impacted by reclassification into groups H10H 29/011, H10H 29/14, H10H 29/30, H10H 29/32, H10H 29/34, H10H 29/345, H10H 29/352, H10H 29/362, H10H 29/37, H10H 29/39, H10H 29/41, H10H 29/45, H10H 29/49, H10H 29/8517, H10H 29/8552, H10H 29/922, H10H 29/942 and H10H 29/962. All groups listed in this Warning should be considered in order to perform a complete search. |
| N | H10H 29/30 | | Groups H10H 29/30, H10H 29/32, H10H 29/34, H10H 29/345, H10H 29/352, H10H 29/362, H10H 29/37, H10H 29/39, H10H 29/41 and H10H 29/45 are incomplete pending reclassification of documents from group H10H 29/142. All groups listed in this Warning should be considered in order to perform a complete search. |
| N | H10H 29/49 | | Group H10H 29/49 is incomplete pending reclassification of documents from groups H10H 20/857 and H10H 29/142. Groups H10H 20/857, H10H 29/142 and H10H 29/49 should |

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| | | | be considered in order to perform a complete search. |
| N | H10H 29/80 | | Group H10H 29/80 is incomplete pending reclassification of documents from group H10H 20/80. Groups H10H 20/80 and H10H 29/80 should be considered in order to perform a complete search. |
| N | H10H 29/832 | | Group H10H 29/832 is incomplete pending reclassification of documents from group H10H 20/83. Groups H10H 20/83 and H10H 29/832 should be considered in order to perform a complete search. |
| N | H10H 29/8321 | | Group H10H 29/8321 is incomplete pending reclassification of documents from group H10H 20/831. Groups H10H 20/831 and H10H 29/8321 should be considered in order to perform a complete search. |
| N | H10H 29/8322 | | Group H10H 29/8322 is incomplete pending reclassification of documents from group H10H 20/832. Groups H10H 20/832 and H10H 29/8322 should be considered in order to perform a complete search. |
| N | H10H 29/8323 | | Group H10H 29/8323 is incomplete pending reclassification of documents from group H10H 20/833. Groups H10H 20/833 and H10H 29/8323 should be considered in order to perform a complete search. |
| N | H10H 29/8325 | | Group H10H 29/8325 is incomplete pending reclassification of documents from group H10H 20/835. Groups H10H 20/835 and H10H 29/8325 should be considered in order to perform a complete search. |
| N | H10H 29/842 | | Group H10H 29/842 is incomplete pending reclassification of documents from group H10H 20/84. Groups H10H 20/84 and H10H 29/842 should be considered in order to perform a complete search. |
| N | H10H 29/8421 | | Group H10H 29/8421 is incomplete pending reclassification of documents from group H10H 20/841. Groups H10H 20/841 and H10H 29/8421 should be considered in order to perform a complete search. |

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| N | H10H 29/85 | | Group H10H 29/85 is incomplete pending reclassification of documents from group H10H 20/85. Groups H10H 20/85 and H10H 29/85 should be considered in order to perform a complete search. |
| N | H10H 29/8506 | | Group H10H 29/8506 is incomplete pending reclassification of documents from group H10H 20/8506. Groups H10H 20/8506 and H10H 29/8506 should be considered in order to perform a complete search. |
| N | H10H 29/8508 | | Group H10H 29/8508 is incomplete pending reclassification of documents from groups H10H 20/85 and H10H 20/8506. Groups H10H 20/85, H10H 20/8506 and H10H 29/8508 should be considered in order to perform a complete search. |
| N | H10H 29/851 | | Group H10H 29/851 is incomplete pending reclassification of documents from group H10H 20/851. Groups H10H 20/851 and H10H 29/851 should be considered in order to perform a complete search. |
| N | H10H 29/8511 | | Group H10H 29/8511 is incomplete pending reclassification of documents from group H10H 20/8511. Groups H10H 20/8511 and H10H 29/8511 should be considered in order to perform a complete search. |
| N | H10H 29/8512 | | Group H10H 29/8512 is incomplete pending reclassification of documents from group H10H 20/8512. Groups H10H 20/8512 and H10H 29/8512 should be considered in order to perform a complete search. |
| N | H10H 29/8513 | | Group H10H 29/8513 is incomplete pending reclassification of documents from group H10H 20/8513. Groups H10H 20/8513 and H10H 29/8513 should be considered in order to perform a complete search. |
| N | H10H 29/8514 | | Group H10H 29/8514 is incomplete pending reclassification of documents from group H10H 20/8514. Groups H10H 20/8514 and H10H 29/8514 should be considered in order to perform a complete search. |
| N | H10H 29/8515 | | Group H10H 29/8515 is incomplete pending reclassification of documents |

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| | | | from group H10H 20/8515. Groups H10H 20/8515 and H10H 29/8515 should be considered in order to perform a complete search. |
| N | H10H 29/8516 | | Group H10H 29/8516 is incomplete pending reclassification of documents from group H10H 20/8516. Groups H10H 20/8516 and H10H 29/8516 should be considered in order to perform a complete search. |
| N | H10H 29/8517 | | Group H10H 29/8517 is incomplete pending reclassification of documents from groups H10H 20/80, H10H 20/84, H10H 20/85 and H10H 29/142. All groups listed in this Warning should be considered in order to perform a complete search. |
| N | H10H 29/852 | | Group H10H 29/852 is incomplete pending reclassification of documents from group H10H 20/852. Groups H10H 20/852 and H10H 29/852 should be considered in order to perform a complete search. |
| N | H10H 29/853 | | Group H10H 29/853 is incomplete pending reclassification of documents from group H10H 20/853. Groups H10H 20/853 and H10H 29/853 should be considered in order to perform a complete search. |
| N | H10H 29/854 | | Group H10H 29/854 is incomplete pending reclassification of documents from group H10H 20/854. Groups H10H 20/854 and H10H 29/854 should be considered in order to perform a complete search. |
| N | H10H 29/855 | | Group H10H 29/855 is incomplete pending reclassification of documents from group H10H 20/855. Groups H10H 20/855 and H10H 29/855 should be considered in order to perform a complete search. |
| N | H10H 29/8552 | | Group H10H 29/8552 is incomplete pending reclassification of documents from groups H10H 20/80, H10H 20/84, H10H 20/85, H10H 20/855 and H10H 29/142. All groups listed in this Warning should be considered in order to perform a complete search. |
| N | H10H 29/856 | | Group H10H 29/856 is incomplete pending reclassification of documents |

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| | | | from group H10H 20/856. Groups H10H 20/856 and H10H 29/856 should be considered in order to perform a complete search. |
| N | H10H 29/857 | | Group H10H 29/857 is incomplete pending reclassification of documents from group H10H 20/857. Groups H10H 20/857 and H10H 29/857 should be considered in order to perform a complete search. |
| N | H10H 29/858 | | Group H10H 29/858 is incomplete pending reclassification of documents from group H10H 20/858. Groups H10H 20/858 and H10H 29/858 should be considered in order to perform a complete search. |
| N | H10H 29/8581 | | Group H10H 29/8581 is incomplete pending reclassification of documents from group H10H 20/8581. Groups H10H 20/8581 and H10H 29/8581 should be considered in order to perform a complete search. |
| N | H10H 29/8582 | | Group H10H 29/8582 is incomplete pending reclassification of documents from group H10H 20/8582. Groups H10H 20/8582 and H10H 29/8582 should be considered in order to perform a complete search. |
| N | H10H 29/8583 | | Group H10H 29/8583 is incomplete pending reclassification of documents from group H10H 20/8583. Groups H10H 20/8583 and H10H 29/8583 should be considered in order to perform a complete search. |
| N | H10H 29/8584 | | Group H10H 29/8584 is incomplete pending reclassification of documents from group H10H 20/8584. Groups H10H 20/8584 and H10H 29/8584 should be considered in order to perform a complete search. |
| N | H10H 29/8585 | | Group H10H 29/8585 is incomplete pending reclassification of documents from group H10H 20/8585. Groups H10H 20/8585 and H10H 29/8585 should be considered in order to perform a complete search. |
| N | H10H 29/8586 | | Group H10H 29/8586 is incomplete pending reclassification of documents from group H10H 20/8586. Groups H10H 20/8586 and H10H 29/8586 |

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| | | | should be considered in order to perform a complete search. |
| N | H10H 29/862 | | Group H10H 29/862 is incomplete pending reclassification of documents from group H10H 20/862. Groups H10H 20/862 and H10H 29/862 should be considered in order to perform a complete search. |
| N | H10H 29/872 | | Group H10H 29/872 is incomplete pending reclassification of documents from group H10H 20/872. Groups H10H 20/872 and H10H 29/872 should be considered in order to perform a complete search. |
| N | H10H 29/882 | | Group H10H 29/882 is incomplete pending reclassification of documents from group H10H 20/882. Groups H10H 20/882 and H10H 29/882 should be considered in order to perform a complete search. |
| N | H10H 29/922 | | Group H10H 29/922 is incomplete pending reclassification of documents from groups H10H 20/857, H10H 29/14 and H10H 29/142. All groups listed in this Warning should be considered in order to perform a complete search. |
| N | H10H 29/942 | | Group H10H 29/942 is incomplete pending reclassification of documents from groups H10H 20/857, H10H 29/14 and H10H 29/142. All groups listed in this Warning should be considered in order to perform a complete search. |
| N | H10H 29/962 | | Group H10H 29/962 is incomplete pending reclassification of documents from groups H10H 29/14 and H10H 29/142. Groups H10H 29/14, H10H 29/142 and H10H 29/962 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

| <u>Type*</u> | <u>Location</u> | <u>Old Note</u> | <u>New Note</u> |
|--------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| D | H01L 33/00 | 1. This group <u>covers</u> light-emitting diodes [LED] or superluminescent diodes [SLD], which emit visible light, infrared [IR] light or ultra violet [UV] light. 2. In this group, the first place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place. | <u>Delete</u> the entire Note. |
| D | H01L 33/18 | When classifying in this group, classification is also made in group H01L 33/26 or one of its subgroups in order to identify the chemical composition of the light emitting region | <u>Delete</u> the entire Note. |
| D | H01L 33/48 | This group <u>covers</u> elements in intimate contact with the semiconductor body or integrated with the package | <u>Delete</u> the entire Note. |

SUBCLASS H10H - INORGANIC LIGHT-EMITTING SEMICONDUCTOR DEVICES HAVING POTENTIAL BARRIERS

| <u>Type*</u> | <u>Location</u> | <u>Old Note</u> | <u>New Note</u> |
|--------------|-----------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N | H10H | | 1. This subclass <u>covers</u> inorganic light-emitting semiconductor devices that emit visible, infrared [IR] or ultra violet [UV] light. This includes light-emitting diodes [LED] and superluminescent diodes [SLD]. 2. This subclass <u>does not cover</u> semiconductor lasers, which are covered by group H01S 5/00. 3. In this subclass, the periodic system used is the I to VIII group system indicated in the Periodic Table under Note (3) of section C. |
| N | H10H 20/818 | | When classifying in this group, classification is also made in group |

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| <u>Type*</u> | <u>Location</u> | <u>Old Note</u> | <u>New Note</u> |
|--------------|-----------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | H10H 20/822 in order to identify the chemical composition of the light-emitting region. |
| N | H10H 20/822 | | When classifying in this group, constituents of a material are considered irrespective of any dopants or other impurities. |
| N | H10H 29/30 | | This group <u>covers</u> active-matrix displays where the emphasis of the invention concerns the LEDs, the layers closely related to the LEDs or constructional details closely related to the LEDs, e.g. interconnections between the LEDs or their encapsulations. |
| N | H10H 29/80 | | Classification is made in group H10H 29/80 when the constructional detail is relevant to integrated devices or assemblies comprising multiple devices. When the constructional detail is relevant to individual devices, then classification is made in group H10H 20/80. |

*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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2. B. DEFINITIONS QUICK FIX

| Symbol | Location of change (e.g., section title) | Existing reference symbol or text | Action; New symbol; New text |
|---------------|-----------------------------------------------------|------------------------------------------|-------------------------------------|
| H01L 27/15 | | | Delete entire definition |
| H01L 33/00 | | | Delete entire definition |
| H01L 33/0004 | | | Delete entire definition |
| H01L 33/0008 | | | Delete entire definition |
| H01L 33/0012 | | | Delete entire definition |
| H01L 33/0016 | | | Delete entire definition |
| H01L 33/002 | | | Delete entire definition |
| H01L 33/0025 | | | Delete entire definition |
| H01L 33/0029 | | | Delete entire definition |
| H01L 33/0033 | | | Delete entire definition |
| H01L 33/0037 | | | Delete entire definition |
| H01L 33/0041 | | | Delete entire definition |
| H01L 33/0045 | | | Delete entire definition |
| H01L 33/005 | | | Delete entire definition |
| H01L 33/0054 | | | Delete entire definition |
| H01L 33/0058 | | | Delete entire definition |
| H01L 33/0062 | | | Delete entire definition |
| H01L 33/0066 | | | Delete entire definition |
| H01L 33/007 | | | Delete entire definition |
| H01L 33/0075 | | | Delete entire definition |
| H01L 33/0083 | | | Delete entire definition |
| H01L 33/0087 | | | Delete entire definition |
| H01L 33/0091 | | | Delete entire definition |
| H01L 33/0093 | | | Delete entire definition |
| H01L 33/0093 | | | Delete entire definition |
| H01L 33/0095 | | | Delete entire definition |
| H01L 33/02 | | | Delete entire definition |
| H01L 33/025 | | | Delete entire definition |
| H01L 33/04 | | | Delete entire definition |
| H01L 33/06 | | | Delete entire definition |
| H01L 33/08 | | | Delete entire definition |
| H01L 33/10 | | | Delete entire definition |
| H01L 33/105 | | | Delete entire definition |
| H01L 33/12 | | | Delete entire definition |
| H01L 33/14 | | | Delete entire definition |
| H01L 33/145 | | | Delete entire definition |
| H01L 33/16 | | | Delete entire definition |
| H01L 33/18 | | | Delete entire definition |
| H01L 33/20 | | | Delete entire definition |
| H01L 33/22 | | | Delete entire definition |
| H01L 33/24 | | | Delete entire definition |
| H01L 33/28 | | | Delete entire definition |
| H01L 33/285 | | | Delete entire definition |
| H01L 33/30 | | | Delete entire definition |
| H01L 33/305 | | | Delete entire definition |
| H01L 33/32 | | | Delete entire definition |

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| | | | |
|-------------|--|--|--------------------------|
| H01L 33/325 | | | Delete entire definition |
| H01L 33/34 | | | Delete entire definition |
| H01L 33/343 | | | Delete entire definition |
| H01L 33/346 | | | Delete entire definition |
| H01L 33/36 | | | Delete entire definition |
| H01L 33/38 | | | Delete entire definition |
| H01L 33/382 | | | Delete entire definition |
| H01L 33/385 | | | Delete entire definition |
| H01L 33/387 | | | Delete entire definition |
| H01L 33/40 | | | Delete entire definition |
| H01L 33/405 | | | Delete entire definition |
| H01L 33/42 | | | Delete entire definition |
| H01L 33/44 | | | Delete entire definition |
| H01L 33/46 | | | Delete entire definition |
| H01L 33/465 | | | Delete entire definition |
| H01L 33/48 | | | Delete entire definition |
| H01L 33/483 | | | Delete entire definition |
| H01L 33/486 | | | Delete entire definition |
| H01L 33/50 | | | Delete entire definition |
| H01L 33/501 | | | Delete entire definition |
| H01L 33/502 | | | Delete entire definition |
| H01L 33/504 | | | Delete entire definition |
| H01L 33/505 | | | Delete entire definition |
| H01L 33/507 | | | Delete entire definition |
| H01L 33/508 | | | Delete entire definition |
| H01L 33/52 | | | Delete entire definition |
| H01L 33/54 | | | Delete entire definition |
| H01L 33/56 | | | Delete entire definition |
| H01L 33/58 | | | Delete entire definition |
| H01L 33/60 | | | Delete entire definition |
| H01L 33/62 | | | Delete entire definition |
| H01L 33/64 | | | Delete entire definition |
| H01L 33/641 | | | Delete entire definition |
| H01L 33/642 | | | Delete entire definition |
| H01L 33/644 | | | Delete entire definition |
| H01L 33/645 | | | Delete entire definition |
| H01L 33/647 | | | Delete entire definition |
| H01L 33/648 | | | Delete entire definition |

Notes:

Use this Definitions Quick Fix (DQF) table to:

- Delete an entire definition
- Delete an entire section
- Change a reference symbol
- Delete a reference symbol
- Delete text in a References section
- Correct one error in spelling, article use, or verb tense

Otherwise, use the standard template.

Reminder: Never delete F symbol definitions.

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3. REVISION CONCORDANCE LIST (RCL)

| Type* | From CPC Symbol (existing) | To CPC Symbol(s) |
|--------------|---------------------------------------|----------------------------------------------------------------------------|
| D | H01L 27/15 | <administrative transfer to H10H 29/10> |
| D | H01L 27/153 | <administrative transfer to H10H 29/14> |
| D | H01L 27/156 | <administrative transfer to H10H 29/142> |
| D | H01L 33/00 | <administrative transfer to H10H 20/80> |
| D | H01L 33/0004 | <administrative transfer to H10H 20/00> |
| D | H01L 33/0008 | <administrative transfer to H10H 20/81> |
| D | H01L 33/0012 | <administrative transfer to H10H 20/81> |
| D | H01L 33/0016 | <administrative transfer to H10H 20/813> |
| D | H01L 33/002 | <administrative transfer to H10H 20/811> |
| D | H01L 33/0025 | <administrative transfer to H10H 20/811 and H10H 20/824 simultaneously> |
| D | H01L 33/0029 | <administrative transfer to H10H 20/811 and H10H 20/823 simultaneously> |
| D | H01L 33/0033 | <administrative transfer to H10H 20/052> |
| D | H01L 33/0037 | <administrative transfer to H10H 20/052> |
| D | H01L 33/0041 | <administrative transfer to H10H 20/062> |
| D | H01L 33/0045 | <administrative transfer to H10H 20/042> |
| D | H01L 33/005 | <administrative transfer to H10H 20/01> |
| D | H01L 33/0054 | <administrative transfer to H10H 20/014> |
| D | H01L 33/0058 | <administrative transfer to H10H 20/0145> |
| D | H01L 33/0062 | <administrative transfer to H10H 20/013> |
| D | H01L 33/0066 | <administrative transfer to H10H 20/0133> |
| D | H01L 33/007 | <administrative transfer to H10H 20/01335> |
| D | H01L 33/0075 | <administrative transfer to H10H 20/0137> |
| D | H01L 33/0083 | <administrative transfer to H10H 20/012> |
| D | H01L 33/0087 | <administrative transfer to H10H 20/0125> |
| D | H01L 33/0091 | <administrative transfer to H10H 20/011> |
| D | H01L 33/0093 | <administrative transfer to H10H 20/018> |
| D | H01L 33/0095 | <administrative transfer to H10H 20/01> |
| D | H01L 33/02 | <administrative transfer to H10H 20/81> |
| D | H01L 33/025 | <administrative transfer to H10H 20/8215> |
| D | H01L 33/04 | <administrative transfer to H10H 20/811> |
| D | H01L 33/06 | <administrative transfer to H10H 20/812> |
| D | H01L 33/08 | <administrative transfer to H10H 20/813> |
| D | H01L 33/10 | <administrative transfer to H10H 20/814> |
| D | H01L 33/105 | <administrative transfer to H10H 20/8142> |
| D | H01L 33/12 | <administrative transfer to H10H 20/815> |
| D | H01L 33/14 | <administrative transfer to H10H 20/816> |
| D | H01L 33/145 | <administrative transfer to H10H 20/8162> |
| D | H01L 33/16 | <administrative transfer to H10H 20/817> |
| D | H01L 33/18 | <administrative transfer to H10H 20/818> |
| D | H01L 33/20 | <administrative transfer to H10H 20/819> |
| D | H01L 33/22 | <administrative transfer to H10H 20/82> |
| D | H01L 33/24 | <administrative transfer to H10H 20/821> |
| D | H01L 33/26 | <administrative transfer to H10H 20/822> |
| D | H01L 33/28 | <administrative transfer to H10H 20/823> |

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| Type* | From CPC Symbol (existing) | To CPC Symbol(s) |
|--------------|---------------------------------------|--------------------------------------------|
| D | H01L 33/285 | <administrative transfer to H10H 20/8232> |
| D | H01L 33/30 | <administrative transfer to H10H 20/824> |
| D | H01L 33/305 | <administrative transfer to H10H 20/8242> |
| D | H01L 33/32 | <administrative transfer to H10H 20/825> |
| D | H01L 33/325 | <administrative transfer to H10H 20/8252> |
| D | H01L 33/34 | <administrative transfer to H10H 20/826> |
| D | H01L 33/343 | <administrative transfer to H10H 20/8262> |
| D | H01L 33/346 | <administrative transfer to H10H 20/8264> |
| D | H01L 33/36 | <administrative transfer to H10H 20/83> |
| D | H01L 33/38 | < administrative transfer to H10H 20/831> |
| D | H01L 33/382 | <administrative transfer to H10H 20/8312> |
| D | H01L 33/385 | <administrative transfer to H10H 20/8314> |
| D | H01L 33/387 | <administrative transfer to H10H 20/8316> |
| D | H01L 33/40 | <administrative transfer to H10H 20/832> |
| D | H01L 33/405 | <administrative transfer to H10H 20/835> |
| D | H01L 33/42 | <administrative transfer to H10H 20/833> |
| D | H01L 33/44 | <administrative transfer to H10H 20/84> |
| D | H01L 33/46 | <administrative transfer to H10H 20/841> |
| D | H01L 33/465 | <administrative transfer to H10H 20/862> |
| D | H01L 33/48 | <administrative transfer to H10H 20/85> |
| D | H01L 33/483 | <administrative transfer to H10H 20/8506> |
| D | H01L 33/486 | <administrative transfer to H10H 20/8506> |
| D | H01L 33/50 | <administrative transfer to H10H 20/851> |
| D | H01L 33/501 | <administrative transfer to H10H 20/8511> |
| D | H01L 33/502 | <administrative transfer to H10H 20/8512 > |
| D | H01L 33/504 | <administrative transfer to H10H 20/8513 > |
| D | H01L 33/505 | <administrative transfer to H10H 20/8514> |
| D | H01L 33/507 | <administrative transfer to H10H 20/8515 > |
| D | H01L 33/508 | <administrative transfer to H10H 20/8516 > |
| D | H01L 33/52 | <administrative transfer to H10H 20/852> |
| D | H01L 33/54 | <administrative transfer to H10H 20/853> |
| D | H01L 33/56 | <administrative transfer to H10H 20/854> |
| D | H01L 33/58 | <administrative transfer to H10H 20/855> |
| D | H01L 33/60 | <administrative transfer to H10H 20/856> |
| D | H01L 33/62 | <administrative transfer to H10H 20/857> |
| D | H01L 33/64 | <administrative transfer to H10H 20/858> |
| D | H01L 33/641 | <administrative transfer to H10H 20/8581> |
| D | H01L 33/642 | <administrative transfer to H10H 20/8582> |
| D | H01L 33/644 | <administrative transfer to H10H 20/8583> |
| D | H01L 33/645 | <administrative transfer to H10H 20/8584> |
| D | H01L 33/647 | <administrative transfer to H10H 20/8585> |
| D | H01L 33/648 | <administrative transfer to H10H 20/8586> |
| D | H01L 2933/00 | <administrative transfer to H10H 20/80> |
| D | H01L 2933/0008 | <administrative transfer to H10H 20/01> |
| D | H01L 2933/0016 | <administrative transfer to H10H 20/032> |
| D | H01L 2933/0025 | <administrative transfer to H10H 20/034> |
| D | H01L 2933/0033 | <administrative transfer to H10H 20/036> |
| D | H01L 2933/0041 | <administrative transfer to H10H 20/0361> |
| D | H01L 2933/005 | <administrative transfer to H10H 20/0362> |

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| Type* | From CPC Symbol (existing) | To CPC Symbol(s) |
|--------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D | H01L 2933/0058 | <administrative transfer to H10H 20/0363> |
| D | H01L 2933/0066 | <administrative transfer to H10H 20/0364> |
| D | H01L 2933/0075 | <administrative transfer to H10H 20/0365> |
| D | H01L 2933/0083 | <administrative transfer to H10H 20/872> |
| D | H01L 2933/0091 | <administrative transfer to H10H 20/882> |
| Q | H10H 20/01 | H10H 20/01, H10H 20/011, H10H 20/016, H10H 20/0165, H10H 20/017, H10H 20/021, H10H 20/032, H10H 20/034, H10H 20/036, H10H 20/0362, H10H 20/0363, H10H 20/0364, H10H 20/0365, H10H 29/01, H10H 29/011, H10H 29/012, H10H 29/02, H10H 29/03, H10H 29/032, H10H 29/034, H10H 29/036, H10H 29/0361, H10H 29/0362, H10H 29/0363, H10H 29/0364, H10H 29/0365 |
| Q | H10H 20/014 | H10H 20/014, H10H 20/0145 |
| Q | H10H 20/018 | H10H 20/018, H10H 20/019 |
| Q | H10H 20/032 | H10H 20/032, H10H 29/032 |
| Q | H10H 20/034 | H10H 20/034, H10H 29/034 |
| Q | H10H 20/036 | H10H 20/036, H10H 29/036 |
| Q | H10H 20/0361 | H10H 20/0361, H10H 29/0361 |
| Q | H10H 20/0362 | H10H 20/0362, H10H 29/0362 |
| Q | H10H 20/0363 | H10H 20/0363, H10H 29/0363 |
| Q | H10H 20/0364 | H10H 20/0364, H10H 29/0364 |
| Q | H10H 20/0365 | H10H 20/0365, H10H 29/0365 |
| Q | H10H 20/80 | H10H 20/80, H10H 29/80, H10H 29/8517, H10H 29/8552 |
| Q | H10H 20/811 | H10H 20/811, H10H 20/812 |
| Q | H10H 20/813 | H10H 20/813, H10H 20/8131, H10H 20/8132, H10H 20/8133 |
| Q | H10H 20/826 | H10H 20/826, H10H 20/8264 |
| Q | H10H 20/83 | H10H 20/83, H10H 29/832 |
| Q | H10H 20/831 | H10H 20/831, H10H 29/8321 |
| Q | H10H 20/832 | H10H 20/832, H10H 29/8322 |
| Q | H10H 20/833 | H10H 20/833, H10H 29/8323 |
| Q | H10H 20/835 | H10H 20/835, H10H 29/8325 |
| Q | H10H 20/84 | H10H 20/84, H10H 29/842, H10H 29/8517, H10H 29/8552 |
| Q | H10H 20/841 | H10H 20/841, H10H 29/8421 |
| Q | H10H 20/85 | H10H 20/85, H10H 20/8504, H10H 20/8508, H10H 29/85, H10H 29/8508, H10H 29/8517, H10H 29/8552 |
| Q | H10H 20/8506 | H10H 20/8502, H10H 20/8504, H10H 20/8506, H10H 20/8508, H10H 29/8506, H10H 29/8508 |
| Q | H10H 20/851 | H10H 20/851, H10H 29/851 |
| Q | H10H 20/8511 | H10H 20/8511, H10H 29/8511 |
| Q | H10H 20/8512 | H10H 20/8512, H10H 29/8512 |
| Q | H10H 20/8513 | H10H 20/8513, H10H 29/8513 |
| Q | H10H 20/8514 | H10H 20/8514, H10H 29/8514 |
| Q | H10H 20/8515 | H10H 20/8515, H10H 29/8515 |
| Q | H10H 20/8516 | H10H 20/8516, H10H 29/8516 |
| Q | H10H 20/852 | H10H 20/852, H10H 29/852 |
| Q | H10H 20/853 | H10H 20/853, H10H 29/853 |
| Q | H10H 20/854 | H10H 20/854, H10H 29/854 |
| Q | H10H 20/855 | H10H 20/855, H10H 29/855, H10H 29/8552 |
| Q | H10H 20/856 | H10H 20/856, H10H 29/856 |

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| Type* | From CPC Symbol (existing) | To CPC Symbol(s) |
|--------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Q | H10H 20/857 | H10H 20/857, H10H 29/49, H10H 29/857, H10H 29/922, H10H 29/942 |
| Q | H10H 20/858 | H10H 20/858, H10H 29/858 |
| Q | H10H 20/8581 | H10H 20/8581, H10H 29/8581 |
| Q | H10H 20/8582 | H10H 20/8582, H10H 29/8582 |
| Q | H10H 20/8583 | H10H 20/8583, H10H 29/8583 |
| Q | H10H 20/8584 | H10H 20/8584, H10H 29/8584 |
| Q | H10H 20/8585 | H10H 20/8585, H10H 29/8585 |
| Q | H10H 20/8586 | H10H 20/8586, H10H 29/8586 |
| Q | H10H 20/862 | H10H 20/862, H10H 29/862 |
| Q | H10H 20/872 | H10H 20/872, H10H 29/872 |
| Q | H10H 20/882 | H10H 20/882, H10H 29/882 |
| Q | H10H 29/10 | H10H 29/011, H10H 29/10, |
| Q | H10H 29/14 | H10H 29/011, H10H 29/14, H10H 29/922, H10H 29/942, H10H 29/962 |
| Q | H10H 29/142 | H10H 29/011, H10H 29/14, H10H 29/142, H10H 29/30, H10H 29/32, H10H 29/34, H10H 29/345, H10H 29/352, H10H 29/362, H10H 29/37, H10H 29/39, H10H 29/41, H10H 29/45, H10H 29/49, H10H 29/8517, H10H 29/8552, H10H 29/922, H10H 29/942, H10H 29/962 |

* C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed.

NOTES:

- Only C, D, F, and Q type entries are included in the table above.
- When multiple symbols are included in the “To” column, do not use ranges of symbols.
- For administrative transfer of documents, the following text should be used: “< administrative transfer to XX>”, “<administrative transfer to XX and YY simultaneously>”, or “<administrative transfer to XX, YY, ...and ZZ simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be “additional information”.
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations “ADD” or “INV”: <administrative transfer to XX ADD>, <administrative transfer to XX INV>, or < administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the “D” entries of 2000-series or Y-series groups may not require a destination (“To”) symbol, however it is required to specify “<no transfer>” in the “To” column for such cases.
- RCL is not needed for finalisation projects.

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

| <u>CPC</u> | <u>IPC</u> | <u>Action*</u> |
|--------------|------------|----------------|
| H01L 27/15 | | DELETE |
| H01L 27/153 | | DELETE |
| H01L 27/156 | | DELETE |
| H01L 33/00 | | DELETE |
| H01L 33/0004 | | DELETE |
| H01L 33/0008 | | DELETE |
| H01L 33/0012 | | DELETE |
| H01L 33/0016 | | DELETE |
| H01L 33/002 | | DELETE |
| H01L 33/0025 | | DELETE |
| H01L 33/0029 | | DELETE |
| H01L 33/0033 | | DELETE |
| H01L 33/0037 | | DELETE |
| H01L 33/0041 | | DELETE |
| H01L 33/0045 | | DELETE |
| H01L 33/005 | | DELETE |
| H01L 33/0054 | | DELETE |
| H01L 33/0058 | | DELETE |
| H01L 33/0062 | | DELETE |
| H01L 33/0066 | | DELETE |
| H01L 33/007 | | DELETE |
| H01L 33/0075 | | DELETE |
| H01L 33/0083 | | DELETE |
| H01L 33/0087 | | DELETE |
| H01L 33/0091 | | DELETE |
| H01L 33/0093 | | DELETE |
| H01L 33/0095 | | DELETE |
| H01L 33/02 | | DELETE |
| H01L 33/025 | | DELETE |
| H01L 33/04 | | DELETE |
| H01L 33/06 | | DELETE |
| H01L 33/08 | | DELETE |
| H01L 33/10 | | DELETE |
| H01L 33/105 | | DELETE |
| H01L 33/12 | | DELETE |
| H01L 33/14 | | DELETE |
| H01L 33/145 | | DELETE |
| H01L 33/16 | | DELETE |
| H01L 33/18 | | DELETE |
| H01L 33/20 | | DELETE |
| H01L 33/22 | | DELETE |
| H01L 33/24 | | DELETE |

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| <u>CPC</u> | <u>IPC</u> | <u>Action*</u> |
|--------------|------------|----------------|
| H01L 33/26 | | DELETE |
| H01L 33/28 | | DELETE |
| H01L 33/285 | | DELETE |
| H01L 33/30 | | DELETE |
| H01L 33/305 | | DELETE |
| H01L 33/32 | | DELETE |
| H01L 33/325 | | DELETE |
| H01L 33/34 | | DELETE |
| H01L 33/343 | | DELETE |
| H01L 33/346 | | DELETE |
| H01L 33/36 | | DELETE |
| H01L 33/38 | | DELETE |
| H01L 33/382 | | DELETE |
| H01L 33/385 | | DELETE |
| H01L 33/387 | | DELETE |
| H01L 33/40 | | DELETE |
| H01L 33/405 | | DELETE |
| H01L 33/42 | | DELETE |
| H01L 33/44 | | DELETE |
| H01L 33/46 | | DELETE |
| H01L 33/465 | | DELETE |
| H01L 33/48 | | DELETE |
| H01L 33/483 | | DELETE |
| H01L 33/486 | | DELETE |
| H01L 33/50 | | DELETE |
| H01L 33/501 | | DELETE |
| H01L 33/502 | | DELETE |
| H01L 33/504 | | DELETE |
| H01L 33/505 | | DELETE |
| H01L 33/507 | | DELETE |
| H01L 33/508 | | DELETE |
| H01L 33/52 | | DELETE |
| H01L 33/54 | | DELETE |
| H01L 33/56 | | DELETE |
| H01L 33/58 | | DELETE |
| H01L 33/60 | | DELETE |
| H01L 33/62 | | DELETE |
| H01L 33/64 | | DELETE |
| H01L 33/641 | | DELETE |
| H01L 33/642 | | DELETE |
| H01L 33/644 | | DELETE |
| H01L 33/645 | | DELETE |
| H01L 33/647 | | DELETE |
| H01L 33/648 | | DELETE |
| H01L 2933/00 | | DELETE |

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| <u>CPC</u> | <u>IPC</u> | <u>Action*</u> |
|----------------|-------------|----------------|
| H01L 2933/0008 | | DELETE |
| H01L 2933/0016 | | DELETE |
| H01L 2933/0025 | | DELETE |
| H01L 2933/0033 | | DELETE |
| H01L 2933/0041 | | DELETE |
| H01L 2933/005 | | DELETE |
| H01L 2933/0058 | | DELETE |
| H01L 2933/0066 | | DELETE |
| H01L 2933/0075 | | DELETE |
| H01L 2933/0083 | | DELETE |
| H01L 2933/0091 | | DELETE |
| H10H 20/00 | H10H 20/00 | NEW |
| H10H 20/01 | H10H 20/01 | NEW |
| H10H 20/011 | H10H 20/01 | NEW |
| H10H 20/012 | H10H 20/01 | NEW |
| H10H 20/0125 | H10H 20/01 | NEW |
| H10H 20/013 | H10H 20/01 | NEW |
| H10H 20/0133 | H10H 20/01 | NEW |
| H10H 20/01335 | H10H 20/01 | NEW |
| H10H 20/0137 | H10H 20/01 | NEW |
| H10H 20/014 | H10H 20/01 | NEW |
| H10H 20/0145 | H10H 20/01 | NEW |
| H10H 20/016 | H10H 20/01 | NEW |
| H10H 20/0165 | H10H 20/01 | NEW |
| H10H 20/017 | H10H 20/01 | NEW |
| H10H 20/018 | H10H 20/01 | NEW |
| H10H 20/019 | H10H 20/01 | NEW |
| H10H 20/021 | H10H 20/01 | NEW |
| H10H 20/032 | H10H 20/01 | NEW |
| H10H 20/034 | H10H 20/01 | NEW |
| H10H 20/036 | H10H 20/01 | NEW |
| H10H 20/0361 | H10H 20/01 | NEW |
| H10H 20/0362 | H10H 20/01 | NEW |
| H10H 20/0363 | H10H 20/01 | NEW |
| H10H 20/0364 | H10H 20/01 | NEW |
| H10H 20/0365 | H10H 20/01 | NEW |
| H10H 20/042 | H10H 20/00 | NEW |
| H10H 20/052 | H10H 20/00 | NEW |
| H10H 20/062 | H10H 20/00 | NEW |
| H10H 20/80 | H10H 20/80 | NEW |
| H10H 20/81 | H10H 20/81 | NEW |
| H10H 20/811 | H10H 20/811 | NEW |
| H10H 20/812 | H10H 20/812 | NEW |
| H10H 20/813 | H10H 20/813 | NEW |
| H10H 20/8131 | H10H 20/813 | NEW |

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| <u>CPC</u> | <u>IPC</u> | <u>Action*</u> |
|--------------|-------------|----------------|
| H10H 20/8132 | H10H 20/813 | NEW |
| H10H 20/8133 | H10H 20/813 | NEW |
| H10H 20/814 | H10H 20/814 | NEW |
| H10H 20/8142 | H10H 20/814 | NEW |
| H10H 20/815 | H10H 20/815 | NEW |
| H10H 20/816 | H10H 20/816 | NEW |
| H10H 20/8162 | H10H 20/816 | NEW |
| H10H 20/817 | H10H 20/817 | NEW |
| H10H 20/818 | H10H 20/818 | NEW |
| H10H 20/819 | H10H 20/819 | NEW |
| H10H 20/82 | H10H 20/82 | NEW |
| H10H 20/821 | H10H 20/821 | NEW |
| H10H 20/8215 | H10H 20/81 | NEW |
| H10H 20/822 | H10H 20/822 | NEW |
| H10H 20/823 | H10H 20/823 | NEW |
| H10H 20/8232 | H10H 20/823 | NEW |
| H10H 20/824 | H10H 20/824 | NEW |
| H10H 20/8242 | H10H 20/824 | NEW |
| H10H 20/825 | H10H 20/825 | NEW |
| H10H 20/8252 | H10H 20/825 | NEW |
| H10H 20/826 | H10H 20/826 | NEW |
| H10H 20/8262 | H10H 20/826 | NEW |
| H10H 20/8264 | H10H 20/826 | NEW |
| H10H 20/83 | H10H 20/83 | NEW |
| H10H 20/831 | H10H 20/831 | NEW |
| H10H 20/8312 | H10H 20/831 | NEW |
| H10H 20/8314 | H10H 20/831 | NEW |
| H10H 20/8316 | H10H 20/831 | NEW |
| H10H 20/832 | H10H 20/832 | NEW |
| H10H 20/833 | H10H 20/833 | NEW |
| H10H 20/835 | H10H 20/832 | NEW |
| H10H 20/84 | H10H 20/84 | NEW |
| H10H 20/841 | H10H 20/841 | NEW |
| H10H 20/85 | H10H 20/85 | NEW |
| H10H 20/8502 | H10H 20/85 | NEW |
| H10H 20/8504 | H10H 20/85 | NEW |
| H10H 20/8506 | H10H 20/85 | NEW |
| H10H 20/8508 | H10H 20/85 | NEW |
| H10H 20/851 | H10H 20/851 | NEW |
| H10H 20/8511 | H10H 20/851 | NEW |
| H10H 20/8512 | H10H 20/851 | NEW |
| H10H 20/8513 | H10H 20/851 | NEW |
| H10H 20/8514 | H10H 20/851 | NEW |
| H10H 20/8515 | H10H 20/851 | NEW |
| H10H 20/8516 | H10H 20/851 | NEW |

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| <u>CPC</u> | <u>IPC</u> | <u>Action*</u> |
|--------------|-------------|----------------|
| H10H 20/852 | H10H 20/852 | NEW |
| H10H 20/853 | H10H 20/853 | NEW |
| H10H 20/854 | H10H 20/854 | NEW |
| H10H 20/855 | H10H 20/855 | NEW |
| H10H 20/856 | H10H 20/856 | NEW |
| H10H 20/857 | H10H 20/857 | NEW |
| H10H 20/858 | H10H 20/858 | NEW |
| H10H 20/8581 | H10H 20/858 | NEW |
| H10H 20/8582 | H10H 20/858 | NEW |
| H10H 20/8583 | H10H 20/858 | NEW |
| H10H 20/8584 | H10H 20/858 | NEW |
| H10H 20/8585 | H10H 20/858 | NEW |
| H10H 20/8586 | H10H 20/858 | NEW |
| H10H 20/862 | H10H 20/80 | NEW |
| H10H 20/872 | H10H 20/80 | NEW |
| H10H 20/882 | H10H 20/80 | NEW |
| H10H 29/00 | H10H 29/00 | NEW |
| H10H 29/01 | H10H 29/01 | NEW |
| H10H 29/011 | H10H 29/01 | NEW |
| H10H 29/012 | H10H 29/01 | NEW |
| H10H 29/02 | H10H 29/02 | NEW |
| H10H 29/03 | H10H 29/03 | NEW |
| H10H 29/032 | H10H 29/01 | NEW |
| H10H 29/034 | H10H 29/01 | NEW |
| H10H 29/036 | H10H 29/01 | NEW |
| H10H 29/0361 | H10H 29/01 | NEW |
| H10H 29/0362 | H10H 29/01 | NEW |
| H10H 29/0363 | H10H 29/01 | NEW |
| H10H 29/0364 | H10H 29/01 | NEW |
| H10H 29/0365 | H10H 29/01 | NEW |
| H10H 29/10 | H10H 29/10 | NEW |
| H10H 29/14 | H10H 29/14 | NEW |
| H10H 29/142 | H10H 29/14 | NEW |
| H10H 29/20 | H10H 29/20 | NEW |
| H10H 29/24 | H10H 29/24 | NEW |
| H10H 29/30 | H10H 29/30 | NEW |
| H10H 29/32 | H10H 29/32 | NEW |
| H10H 29/34 | H10H 29/34 | NEW |
| H10H 29/345 | H10H 29/34 | NEW |
| H10H 29/352 | H10H 29/30 | NEW |
| H10H 29/362 | H10H 29/30 | NEW |
| H10H 29/37 | H10H 29/37 | NEW |
| H10H 29/39 | H10H 29/39 | NEW |
| H10H 29/41 | H10H 29/41 | NEW |
| H10H 29/45 | H10H 29/45 | NEW |

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| <u>CPC</u> | <u>IPC</u> | <u>Action*</u> |
|--------------|-------------|----------------|
| H10H 29/49 | H10H 29/49 | NEW |
| H10H 29/80 | H10H 29/80 | NEW |
| H10H 29/832 | H10H 29/80 | NEW |
| H10H 29/8321 | H10H 29/80 | NEW |
| H10H 29/8322 | H10H 29/80 | NEW |
| H10H 29/8323 | H10H 29/80 | NEW |
| H10H 29/8325 | H10H 29/80 | NEW |
| H10H 29/842 | H10H 29/80 | NEW |
| H10H 29/8421 | H10H 29/80 | NEW |
| H10H 29/85 | H10H 29/85 | NEW |
| H10H 29/8506 | H10H 29/85 | NEW |
| H10H 29/8508 | H10H 29/85 | NEW |
| H10H 29/851 | H10H 29/851 | NEW |
| H10H 29/8511 | H10H 29/851 | NEW |
| H10H 29/8512 | H10H 29/851 | NEW |
| H10H 29/8513 | H10H 29/851 | NEW |
| H10H 29/8514 | H10H 29/851 | NEW |
| H10H 29/8515 | H10H 29/851 | NEW |
| H10H 29/8516 | H10H 29/851 | NEW |
| H10H 29/8517 | H10H 29/85 | NEW |
| H10H 29/852 | H10H 29/852 | NEW |
| H10H 29/853 | H10H 29/853 | NEW |
| H10H 29/854 | H10H 29/854 | NEW |
| H10H 29/855 | H10H 29/855 | NEW |
| H10H 29/8552 | H10H 29/855 | NEW |
| H10H 29/856 | H10H 29/856 | NEW |
| H10H 29/857 | H10H 29/85 | NEW |
| H10H 29/858 | H10H 29/85 | NEW |
| H10H 29/8581 | H10H 29/85 | NEW |
| H10H 29/8582 | H10H 29/85 | NEW |
| H10H 29/8583 | H10H 29/85 | NEW |
| H10H 29/8584 | H10H 29/85 | NEW |
| H10H 29/8585 | H10H 29/85 | NEW |
| H10H 29/8586 | H10H 29/85 | NEW |
| H10H 29/862 | H10H 29/80 | NEW |
| H10H 29/872 | H10H 29/80 | NEW |
| H10H 29/882 | H10H 29/80 | NEW |
| H10H 29/922 | H10H 29/80 | NEW |
| H10H 29/942 | H10H 29/80 | NEW |
| H10H 29/962 | H10H 29/80 | NEW |
| H10H 99/00 | H10H 99/00 | NEW |

* Action column:

- For an (N) or (Q) entry, provide an IPC symbol and complete the Action column with "NEW."
- For an existing CPC main trunk entry or indexing entry where the existing IPC symbol needs to be changed, provide an updated IPC symbol and complete the Action column with "UPDATED."

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- 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> |
|--------------------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| G02B 6/0085 | H01L 33/64 | <u>Delete</u> the entire reference (text and symbol). |
| G02B 6/4204 | H01L 33/52 | <u>Delete</u> the symbol. |
| G02B 6/425 | H01L 27/153 | <u>Delete</u> the entire reference (text and symbol). |
| G02B 17/0673 | H01L 33/00 | <u>Delete</u> the entire reference (text and symbol). |
| G02B 17/0868 | H01L 33/00 | <u>Delete</u> the entire reference (text and symbol). |
| G02B 19/0061 | H01L 33/00 | <u>Delete</u> the entire reference (text and symbol). |
| G02B 27/0916 | H01L 33/00 | <u>Delete</u> the entire reference (text and symbol). |
| H01L 25/03 | H01L27/00-H01L33/00 | <u>Replace</u> the existing text and references with the following text and references: all the devices being of a type provided for in a single subclass of subclasses H10B, H10F, H10H, H10K or H10N, e.g. assemblies of rectifier diodes |
| H01L 25/075 | H01L 33/00 | H10H 20/00 |
| H01L 25/13 | H01L 33/00 | H10H 20/00 |
| H01L 25/16 | H01L27/00-H01L33/00 | <u>Replace</u> the existing text and references with the following text and references: the devices being of types provided for in two or more different subclasses of H10B, H10D, H10F, H10H, H10K or H10N, e.g. forming hybrid circuits |
| H01L 25/18 | H01L27/00-H01L33/00 | <u>Replace</u> the existing text and references with the following text and references: the devices being of the types provided for in two or more different main groups of the same subclass of H10B, H10D, H10F, H10H, H10K or H10N |

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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 2225/03 | All the devices being of a type provided for in the same subgroup of groups H01L 27/00 - H01L 33/648 and H10K 99/00 | <u>Replace</u> the existing text and references with the following text and references: All the devices being of a type provided for in the same main group of the same subclass of class H10, e.g. assemblies of rectifier diodes |
| H01S 5/00 | H01L 33/00 | H10H 20/00 |
| F21K 9/00 (Note) | 2. Semiconductor devices <u>per se</u> , or assemblies thereof, specially adapted for light emission, e.g. for use in light sources (in the sense of Note (1)) are covered by subclasses H01L (e.g. H01L 33/00), H01S (e.g. H01S 5/00) or class H10 and subclass H10K (e.g. H10K 50/00 and H10K 59/00) | <u>Replace</u> existing text with the following text: 2. Semiconductor devices <u>per se</u> , or assemblies thereof, specially adapted for light emission, e.g. for use in light sources (in the sense of Note (1)) are covered by subclasses H01S (e.g. H01S 5/00), H10H (e.g. H10H 20/00 and H10H 29/20, and H10K (e.g. H10K 50/00 and H10K 59/00) |
| F21V 29/503 | H01L 33/64 | H10H 20/858 |

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> |
|--------------------------------------------|---------------------------------------------------|------------------------------------------------|-----------------------------------------------|
| A61N 5/00 | H01L 33/00 | Informative references | H10H 20/00 |
| B05D 3/067 | H01L 33/00 | Relationships with other classification places | H10H 20/00 |
| B29C 45/14639 | H01L 33/00 | Informative references | H10H 20/00 |
| B61L | H01L 33/00 | Informative references | H10H 20/00 |
| C04B 35/58 | H01L 33/007 | Informative references | H10H 20/01335 |
| C04B 35/58 | H01L 33/0075 | Informative references | H10H 20/0137 |
| F21K 2/00 | H01L 33/00 | Informative references | H10H 20/00 |
| F21K 9/00 | H01L 33/00 | Informative references | H10H 20/00 |

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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> |
|--------------------------------------------|---------------------------------------------------|------------------------------------------------|------------------------------------------------|
| F21K9/64 | H01L 33/50 | Informative references | H10H 20/851 |
| F21K99/00 | H01L 33/00 | References out of a residual place | H10H 20/00 |
| F21L | H01L 33/00 | Informative references | H10H 20/00 |
| F21S | H01L 33/00 | Informative references | H10H 20/00 |
| F21S43/28135 | H01L 33/50 | Informative references | H10H 20/851 |
| F21S43/28135 | H01L 33/52 | Informative references | H10H 20/852 |
| F21V | H01L 33/00 | Informative references | H10H 20/00 |
| F21V29/00 | H01L 33/64 | Informative references | H10H 20/858 |
| F28D | H01L 23/7467 | Limiting references | H01L 23/467 |
| F28D | H01L 33/64 | Limiting references | H10H 20/858 |
| G01S 7/4814 | H01L 33/00 | Relationships with other classification places | H10H 20/00 |
| G01S 7/484 | H01L 33/00 | Relationships with other classification places | H10H 20/00 |
| G02B 6/12 | H01L 33/00 | Informative references | H10H 20/00 |
| G02F 1/23 | H01L 33/00 | Relationships with other classification places | H10H 20/00 |
| G02F 1/23 | (US2008007172) | Relationships with other classification places | <u>Delete</u> patent number: (US2008007172) |
| G09F | H01L 33/00 | Informative references | H10H 20/00 |
| G09F | H01L 27/15 | Informative references | H10H 29/10 |
| G09F 9/00 | H01L 27/15 | Informative references | H10H 20/00, H10H 29/10 |
| G09F 9/00 | H01L 33/00 | Informative references | H10H 20/00 |
| G09F 9/00 | H01L 27/15 | Special rules of classification | H10H 29/10 |

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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> |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| G09G | H01L 27/15 | Limiting references | H10H 29/10 |
| G09G | Classification of invention information and additional information is obligatory. Indexing Code symbols of the type G09G 2xx represent information orthogonal to one or to more than one ECLA group and should be used to classify information relevant for the invention, although it need not be invention information. | Special Rules of Classification | <u>Replace</u> the existing text with the following revised text: Indexing Code symbols of the type G09G 2xx should be used to classify information relevant for the invention, although it need not be invention information. |
| G11B 7/125 | H01L 33/00 | Informative references | H10H 20/00 |
| G11B 7/127 | H01L 33/00 | Informative references | H10H 20/00 |
| H01J 11/00 | H01L 33/00 | Informative references | H10H 20/00 |
| H01J 17/00 | H01L 33/00 | Informative references | H10H 20/00 |
| H01L 23/00 | H01L 33/00 | Limiting references | H10H 20/00 |
| H01S | H01L 33/00 | Informative references | H10H 20/00 |
| H01S 5/026 | H01L 27/15 | Informative references | H10H 29/10 |
| H05B | H01L 27/15 | References out of a residual place | H10H 20/00, H10H 29/10 |
| H05B | H01L 33/00 | References out of a residual place | H10H 20/00 |
| H05B 44/00 | H01L 33/00 | Informative references | H10H 20/00 |
| H05K 1/00 | H01L 33/00 | Informative references | H10H 20/00 |
| H10K 50/00 | H01L 33/00 | Informative references | H10H 20/00 |
| H10K 59/00 | H01L 27/15 | Informative references | H10H 29/10 |

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.

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- 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.