

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 220

DATE: AUGUST 1, 2016

PROJECT RP0313

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

<u>Action*</u>	<u>Subclass</u>	<u>Group(s)</u>
<b>Symbols deleted:</b>	F21K	9/10
	F21K	9/13
	F21K	9/135
	F21K	9/1355
	F21K	9/137
	F21K	9/1375
	F21K	9/17
	F21K	9/175
	F21K	9/30
	F21K	9/50
	F21K	9/52
	F21K	9/54
	F21K	9/56
	F21K	9/58
	F21Y	2101/02
	F21Y	2101/025
	F21Y	2103/003
	F21Y	2103/006
	F21Y	2103/02
	F21Y	2103/022
	F21Y	2103/025
	F21Y	2105/001
	F21Y	2105/003
	F21Y	2105/005
	F21Y	2105/006
	F21Y	2105/008
	F21Y	2111/001
	F21Y	2111/002
	F21Y	2111/004
	F21Y	2111/005
	F21Y	2111/007
	F21Y	2111/008
	F21Y	2113/002
	F21Y	2113/005
	F21Y	2113/007
	F21Y	2113/02
<b>Symbols deleted pending reclassification (frozen (F)):</b>	F21V	19/042
	F21V	19/045
<b>Symbols newly created:</b>	F21K	9/20

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<u>Action*</u>	<u>Subclass</u>	<u>Group(s)</u>
	F21K	9/23
	F21K	9/232
	F21K	9/233
	F21K	9/235
	F21K	9/237
	F21K	9/238
	F21K	9/27
	F21K	9/272
	F21K	9/275
	F21K	9/278
	F21K	9/60
	F21K	9/61
	F21K	9/62
	F21K	9/64
	F21K	9/65
	F21K	9/66
	F21K	9/68
	F21K	9/69
	F21Y	2103/10
	F21Y	2103/20
	F21Y	2103/30
	F21Y	2103/33
	F21Y	2103/37
	F21Y	2105/10
	F21Y	2105/12
	F21Y	2105/14
	F21Y	2105/16
	F21Y	2105/18
	F21Y	2107/00
	F21Y	2107/10
	F21Y	2107/20
	F21Y	2107/30
	F21Y	2107/40
	F21Y	2107/50
	F21Y	2107/60
	F21Y	2107/70
	F21Y	2107/80
	F21Y	2107/90
	F21Y	2109/00
	F21Y	2113/10
	F21Y	2113/13
	F21Y	2113/17
	F21Y	2113/20
	F21Y	2115/00
	F21Y	2115/10
	F21Y	2115/15
	F21Y	2115/20
	F21Y	2115/30
<b>Title wording change:</b>	F21K	2/00

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<u>Action*</u>	<u>Subclass</u>	<u>Group(s)</u>
	F21K	2/005
	F21K	5/00
	F21K	5/023
	F21K	5/026
	F21K	9/00
	F21K	9/90
	F21W	
	F21Y	
	F21Y	2103/00
	F21Y	2111/00
<b>Scheme Warning Notices to be added/modified/deleted:</b>		
	F21K	
	F21K	9/00
	F21K	9/00
	F21K	9/20
	F21K	9/23
	F21K	9/232
	F21K	9/233
	F21K	9/235
	F21K	9/237
	F21K	9/238
	F21K	9/27
	F21K	9/272
	F21K	9/275
	F21K	9/278
	F21K	9/60
	F21K	9/61
	F21K	9/62
	F21K	9/64
	F21K	9/65
	F21K	9/66
	F21K	9/68
	F21K	9/69
	F21K	9/90
	F21K	99/00
	F21S	2/00
	F21V	19/042
	F21V	19/045
	F21V	23/003
	F21V	23/004
	F21V	23/005
	F21V	23/006
	F21Y	2101/00
	F21Y	2103/00
	F21Y	2103/10

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<u>Action*</u>	<u>Subclass</u>	<u>Group(s)</u>
	F21Y	2103/20
	F21Y	2105/00
	F21Y	2105/10
	F21Y	2105/12
	F21Y	2105/14
	F21Y	2105/16
	F21Y	2105/18
	F21Y	2107/00
	F21Y	2107/10
	F21Y	2107/20
	F21Y	2107/30
	F21Y	2107/40
	F21Y	2107/50
	F21Y	2107/60
	F21Y	2107/70
	F21Y	2107/80
	F21Y	2107/90
	F21Y	2109/00
	F21Y	2111/00
	F21Y	2115/00
	F21Y	2115/10
	F21Y	2115/15
	F21Y	2115/20
<b>Scheme Notes to be added/modified/deleted:</b>	F21K	
	F21K	9/00
	F21W	
	F21Y	

**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):**

F21K, F21L, F21S, F21V, G02F,G09G, H01J, H01L, H01S

**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 Notice(s)
  - C. New, Modified or Deleted Note(s)
  - D. New, Modified or Deleted Guidance Heading(s)
  
2. DEFINITIONS (New or Modified)
  - A. DEFINITIONS (Full definition template)
  - B. DEFINITIONS (Definitions Quick Fix)

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3.  REVISION CONCORDANCE LIST (RCL)
4.  CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)
5.  CROSS-REFERENCE LIST (CRL)

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## 1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

## SUBCLASS F21K – LIGHT SOURCES NOT OTHERWISE PROVIDED FOR

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	F21K 2/00	0	Light sources using luminescence (light sources using a charge of combustible material F21K5/00)	
M	F21K2/005	1	{excited by infra-red radiation using up-conversion}	
M	F21K5/00	0	Light sources using a charge of combustible material, e.g. illuminating flash devices	
M	F21K 5/026	3	{using mechanical firing, e.g. percussion of a fulminating charge}	
C	F21K 9/00	0	Light sources using semiconductor devices as light-generating elements, e.g. using light-emitting diodes [LED] or lasers	F21K9/00, F21K9/20, F21K9/23, F21K9/232, F21K9/233, F21K9/235, F21K9/237, F21K9/238, F21K9/27, F21K9/272, F21K9/275, F21K9/278, F21K9/60, F21K9/61, F21K9/62, F21K9/64, F21K9/65, F21K9/66, F21K9/68, F21K9/69, F21K9/90
D	F21K 9/10	1	{specially adapted for retrofitting or substituting conventional lamps, e.g. for substitution of incandescent lamps or fluorescent tubes}	<administrative transfer to F21K9/20>
D	F21K 9/13	2	{with only one fitting, e.g. a bayonet or screw based fitting}	<administrative transfer to F21K9/23>
D	F21K 9/135	3	{specially adapted for generating an omni-directional light distribution, e.g. with a glass bulb}	<administrative transfer to F21K9/232>
D	F21K 9/1355	4	{Details of the base; Arrangements of components inside the base}	<administrative transfer to F21K9/23>
D	F21K 9/137	3	{specially adapted for generating a spot light distribution, e.g. to substitute reflector lamps}	<administrative transfer to F21K9/233>
D	F21K 9/1375	4	{Details of the base; Arrangements of components in the base}	<administrative transfer to F21K9/23>
D	F21K 9/17	2	{with two fittings, e.g. for substituting a fluorescent tube}	<administrative transfer to F21K9/27>
D	F21K 9/175	3	{Details of the base; Arrangements of components in the base}	<administrative transfer to F21K9/27>

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<b>Type*</b>	<b>Symbol</b>	<b>Indent Level Number of dots (e.g. 0, 1, 2)</b>	<b>Title (new or modified)</b> <b><u>“CPC only” text should normally be enclosed in {curly brackets}**</u></b>	<b>Transferred to#</b>
Q	F21K 9/20	1	Light sources comprising attachment means	F21K9/20, F21K9/23, F21K9/232, F21K9/233, F21K9/235, F21K9/237, F21K9/238, F21K9/27, F21K9/272, F21K9/275, F21K9/278
Q	F21K 9/23	2	Retrofit light sources for lighting devices with a single fitting for each light source, e.g. for substitution of incandescent lamps with bayonet or threaded fittings	F21K9/23, F21K9/235, F21K9/237, F21K9/238
N	F21K 9/232	3	specialized for generating an essentially omnidirectional light distribution, e.g. with a glass bulb	
N	F21K 9/233	3	specialized for generating a spot light distribution, e.g. for substitution of reflector lamps	
N	F21K 9/235	3	Details of bases or caps, i.e. the parts that connect the light source to a fitting; Arrangement of components within bases or caps (F21K9/238 takes precedence)	
N	F21K 9/237	3	Details of housings or cases, i.e. the parts between the light-generating element and the bases; Arrangement of components within housings or cases (F21K9/238 takes precedence)	
N	F21K 9/238	3	Arrangement or mounting of circuit elements integrated in the light source	
Q	F21K 9/27	2	Retrofit light sources for lighting devices with two fittings for each light source, e.g. for substitution of fluorescent tubes	F21K9/27, F21K9/272, F21K9/275, F21K9/278
N	F21K 9/272	3	Details of end parts, i.e. the parts that connect the light source to a fitting; Arrangement of components within end parts (F21K9/278 takes precedence)	
N	F21K 9/275	3	Details of bases or housings, i.e. the parts between the light-generating element and the end caps; Arrangement of components within bases or housings (F21K9/278 takes precedence)	
N	F21K 9/278	3	Arrangement or mounting of circuit elements integrated in the light source	
D	F21K 9/30	1	<i>{LED lamps or modules comprising attachment means not covered by groups F21K9/10 to F21K9/175}</i>	<administrative transfer to F21K9/20>
D	F21K 9/50	1	<i>{Optical arrangements, i.e. for improving the color rendering index or the light extraction}</i>	<administrative transfer to F21K9/60>
D	F21K 9/52	2	<i>{using a light guide}</i>	<administrative transfer to F21K9/61>
D	F21K 9/54	2	<i>{using a mixing chamber, e.g. a housing with reflective walls}</i>	<administrative transfer to F21K9/62>
D	F21K 9/56	2	<i>{using wavelength conversion means distinct or spaced from the light generating element, e.g. a remote phosphor layer}</i>	<administrative transfer to F21K9/64>

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D	F21K 9/58	2	<i>{specially adapted for changing the characteristics or the distribution of the light, e.g. by movement of parts}</i>	<administrative transfer to F21K9/65>
Q	F21K 9/60	1	Optical arrangements integrated in the light source, e.g. for improving the colour rendering index or the light extraction	F21K9/60, F21K9/66, F21K9/68, F21K9/69
N	F21K 9/61	2	using light guides	
N	F21K 9/62	2	using mixing chambers, e.g. housings with reflective walls	
N	F21K 9/64	2	using wavelength conversion means distinct or spaced from the light-generating element, e.g. a remote phosphor layer	
N	F21K 9/65	2	specially adapted for changing the characteristics or the distribution of the light, e.g. by adjustment of parts	
N	F21K 9/66	2	Details of globes or covers forming part of the light source	
N	F21K 9/68	2	Details of reflectors forming part of the light source	
N	F21K 9/69	2	Details of refractors forming part of the light source	
E	F21K 9/90	1	Methods of manufacture	
C	F21K 99/00	0	Subject matter not provided for in other groups of this subclass	F21K9/00, F21K9/20, F21K9/23, F21K9/232, F21K9/233, F21K9/235, F21K9/237, F21K9/238, F21K9/27, F21K9/272, F21K9/275, F21K9/278, F21K9/60, F21K9/61, F21K9/62, F21K9/64, F21K9/65, F21K9/66, F21K9/68, F21K9/69, F21K9/90, F21K99/00
U	F21K 2099/005	1	{Other light sources comprising light emitting diodes associated with conversion means}	

## SUBCLASS F21V – DETAILS OF LIGHTING DEVICES, OF GENERAL APPLICATION

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
U	F21V 19/04	1	with provision for changing light source, e.g. turret {(auxiliary devices for cleaning, placing, or removing incandescent lamps H01K 3/32, fluorescent lamps H01J 9/006)}	

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
F	F21V 19/042	2	{the light source being a semiconductor, e.g. an LED}	F21K9/00, F21K9/20, F21K9/23, F21K9/232, F21K9/233, F21K9/235, F21K9/237, F21K9/238, F21K9/27, F21K9/272, F21K9/275, F21K9/278, F21K9/60, F21K9/61, F21K9/62, F21K9/64, F21K9/65, F21K9/66, F21K9/68, F21K9/69, F21K9/90
F	F21V 19/045	2	{the light source being a semiconductor mounted on a holder, e.g. a circuit board}	F21K9/00, F21K9/20, F21K9/23, F21K9/232, F21K9/233, F21K9/235, F21K9/237, F21K9/238, F21K9/27, F21K9/272, F21K9/275, F21K9/278, F21K9/60, F21K9/61, F21K9/62, F21K9/64, F21K9/65, F21K9/66, F21K9/68, F21K9/69, F21K9/90
C	F21V 23/003	1	{the elements being electronics drivers or controllers for operating the light source, e.g. for a LED array}	F21V23/003, F21K9/238, F21K9/278
C	F21V 23/004	2	{arranged on a substrate, e.g. a printed circuit board}	F21V23/004, F21K9/238, F21K9/278
C	F21V 23/005	3	{the substrate is supporting also the light source}	F21V23/005, F21K9/238, F21K9/278
C	F21V 23/006	3	{the substrate being distinct from the light source holder}	F21V23/006, F21K9/238, F21K9/278

**SUBCLASS F21S – NON-PORTABLE LIGHTING DEVICES OR SYSTEMS THEREOF**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
C	F21S 2/00	0	Systems of lighting devices, not provided for in main groups F21S4/00 - F21S10/00 or F21S19/00, e.g. of modular construction	F21K9/00, F21K9/20, F21K9/23, F21K9/232, F21K9/233, F21K9/235, F21K9/237, F21K9/238, F21K9/27, F21K9/272, F21K9/275,

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
				F21K9/278, F21K9/60, F21K9/61, F21K9/62, F21K9/64, F21K9/65, F21K9/66, F21K9/68, F21K9/69, F21K9/90, F21S2/00

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**SUBCLASS F21W – INDEXING SCHEME RELATING TO USES OR APPLICATIONS OF LIGHTING DEVICES OR SYSTEMS**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	F21W	SUB CLASS	INDEXING SCHEME ASSOCIATED WITH SUBCLASSES F21K, F21L, F21S and F21V, RELATING TO USES OR APPLICATIONS OF LIGHTING DEVICES OR SYSTEMS	

**SUBCLASS F21Y – INDEXING SCHEME RELATING TO THE FORM OF THE LIGHT SOURCES**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	F21Y	SUB CLASS	INDEXING SCHEME ASSOCIATED WITH SUBCLASSES F21K, F21L, F21S and F21V, RELATING TO THE FORM OR THE KIND OF THE LIGHT SOURCES OR OF THE COLOUR OF THE LIGHT EMITTED	
C	F21Y 2101/00	0	Point-like light sources	F21Y2101/00, F21Y2115/00, F21Y2115/10, F21Y2115/15, F21Y2115/20
D	F21Y 2101/02	1	<i>Miniature, e.g. light emitting diodes [LEDs]</i>	<administrative transfer to F21Y2101/00>
D	F21Y 2101/025	2	<i>Laser diodes</i>	<administrative transfer to F21Y2115/30 and F21Y2101/00 simultaneously>
C	F21Y 2103/00	0	Elongate light sources, e.g. fluorescent tubes	F21Y2103/00, F21Y2103/10, F21Y2103/20
D	F21Y 2103/003	1	<i>Linear array of LEDs</i>	<administrative transfer to F21Y2103/10 and F21Y2115/10 simultaneously>
D	F21Y 2103/006	1	<i>using electroluminescent light sources, e.g. electroluminescent wires</i>	<administrative transfer to F21Y2103/00 and F21Y2115/20 simultaneously>
D	F21Y 2103/02	1	<i>curved, e.g. ring-shaped</i>	<administrative transfer to F21Y2103/30>
D	F21Y 2103/022	2	<i>ring-shaped</i>	<administrative transfer to F21Y2103/33>

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D	F21Y 2103/025	2	<i>U-shaped</i>	<administrative transfer to F21Y2103/37>
N	F21Y 2103/10	1	comprising a linear array of point-like light-generating elements	
N	F21Y 2103/20	1	of polygonal shape, e.g. square or rectangular	
N	F21Y 2103/30	1	curved	
N	F21Y 2103/33	2	annular	
N	F21Y 2103/37	2	U-shaped	
C	F21Y 2105/00	0	Planar light sources	F21Y2105/00, F21Y2105/10, F21Y2105/12, F21Y2105/14 , F21Y2105/16 , F21Y2105/18
D	F21Y 2105/001	1	<i>2D-array of LEDs</i>	<administrative transfer to F21Y2105/10 and F21Y2115/10 simultaneously>
D	F21Y 2105/003	2	<i>{characterised by the geometrical disposition of the LEDs, e.g. spacing thereof to create different densities, arrangement of LEDs of different colours in a specific pattern}</i>	<administrative transfer to F21Y2105/12 and F21Y2115/10 simultaneously>
D	F21Y 2105/005	2	<i>{the substrate or the support being planar but the LEDs not being in the same plane or not having the same orientation, e.g. plate shaped support with steps on which LEDs are mounted}</i>	<administrative transfer to F21Y2107/50 and F21Y2115/10 simultaneously>
D	F21Y 2105/006	1	<i>using electroluminescent light sources, e.g. electroluminescent films</i>	<administrative transfer to F21Y2105/00 and F21Y2115/20 simultaneously>
D	F21Y 2105/008	1	<i>using organic light emitting diodes [OLED]</i>	<administrative transfer to F21Y2105/00 and F21Y2115/15 simultaneously>
Q	F21Y 2105/10	1	comprising a two-dimensional array of point-like light-generating elements	F21Y2105/10, F21Y2105/14, F21Y2105/16, F21Y2105/18
N	F21Y 2105/12	2	characterised by the geometrical disposition of the light-generating elements, e.g. arranging light-generating elements in differing patterns or densities	
N	F21Y 2105/14	2	characterised by the overall shape of the two-dimensional array	
N	F21Y 2105/16	3	square or rectangular, e.g. for light panels	
N	F21Y 2105/18	3	annular; polygonal other than square or rectangular, e.g. for spotlights or for generating an axially symmetrical light beam	
Q	F21Y 2107/00	0	Light sources with three-dimensionally disposed light-generating elements	F21Y2107/00, F21Y2107/70, F21Y2107/80, F21Y2107/90

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N	F21Y 2107/10	1	on concave supports or substrates, e.g. on the inner side of bowl-shaped supports	
N	F21Y 2107/20	1	on convex supports or substrates, e.g. on the outer surface of spheres	
N	F21Y 2107/30	1	on the outer surface of cylindrical surfaces, e.g. rod-shaped supports having a circular or a polygonal cross section	
N	F21Y 2107/40	1	on the sides of polyhedrons, e.g. cubes or pyramids	
N	F21Y 2107/50	1	on planar substrates or supports, but arranged in different planes or with differing orientation, e.g. on plate-shaped supports with steps on which light-generating elements are mounted	
N	F21Y 2107/60	1	on stacked substrates	
N	F21Y 2107/70	1	on flexible or deformable supports or substrates, e.g. for changing the light source into a desired form	
N	F21Y 2107/80	1	on articulated supports or substrates	
N	F21Y 2107/90	1	on two opposite sides of supports or substrates	
N	F21Y 2109/00	0	Light sources with light-generating elements disposed on transparent or translucent supports or substrates	
C	F21Y 2111/00	0	Light sources of a form not covered by groups F21Y 2101/00-F21Y 2107/00	F21Y2111/00, F21Y2107/00, F21Y2107/10, F21Y2107/20, F21Y2107/30, F21Y2107/40, F21Y2107/50, F21Y2107/60, F21Y2107/70, F21Y2107/80, F21Y2107/90, F21Y2109/00
D	F21Y 2111/001	1	<i>{Non-planar or three-dimensional arrangements of LEDs}</i>	<administrative transfer to F21Y2107/00 and F21Y2115/10 simultaneously>
D	F21Y 2111/002	2	<i>{the LEDs being disposed on a concave support or substrate, e.g. on the inner side of a bowl shaped support}</i>	<administrative transfer to F21Y2107/10 and F21Y2115/10 simultaneously>
D	F21Y 2111/004	2	<i>{the LEDs being disposed on a convex support or substrate, e.g. on the outer surface of a portion of a sphere}</i>	<administrative transfer to F21Y2107/20 and F21Y2115/10 simultaneously>
D	F21Y 2111/005	2	<i>{the LEDs being disposed on the outer surface of a cylinder, e.g. rod shaped support having a circular or a polygonal cross section}</i>	<administrative transfer to F21Y2107/30 and F21Y2115/10 simultaneously>
D	F21Y 2111/007	2	<i>{the LEDs being on the sides of a polyhedron, e.g. a cube or a pyramid}</i>	<administrative transfer to F21Y2107/40 and F21Y2115/10 simultaneously>

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<b>Type*</b>	<b>Symbol</b>	<b>Indent Level Number of dots (e.g. 0, 1, 2)</b>	<b>Title (new or modified) "CPC only" text should normally be enclosed in {curly brackets}**</b>	<b>Transferred to#</b>
D	F21Y 2111/008	2	<i>{Assemblies consisting of stacked substrates supporting the LEDs}</i>	<administrative transfer to F21Y2107/60 and F21Y2115/10 simultaneously>
U	F21Y 2113/00	0	<i>Combination of light sources</i>	
D	F21Y 2113/002	1	<i>of different colors</i>	<administrative transfer to F21Y2113/10>
D	F21Y 2113/005	2	<i>the light sources being LEDs or chips of different colors</i>	<administrative transfer to F21Y2113/13 and F21Y2115/10 simultaneously>
D	F21Y 2113/007	3	<i>encapsulated in a single LED light source</i>	<administrative transfer to F21Y2113/17 and F21Y2115/10 simultaneously>
D	F21Y 2113/02	1	<i>of different form</i>	<administrative transfer to F21Y2113/20>
N	F21Y 2113/10	1	<i>of different colours</i>	
N	F21Y 2113/13	2	<i>comprising an assembly of point-like light sources</i>	
N	F21Y 2113/17	3	<i>forming a single encapsulated light source</i>	
N	F21Y 2113/20	1	<i>of different form</i>	
N	F21Y 2115/00	0	<i>Light-generating elements of semiconductor light sources</i>	
N	F21Y 2115/10	1	<i>Light-emitting diodes [LED]</i>	
N	F21Y 2115/15	2	<i>Organic light-emitting diodes [OLED]</i>	
N	F21Y 2115/20	1	<i>Electroluminescent [EL] light sources</i>	
N	F21Y 2115/30	1	<i>Semiconductor lasers</i>	

\*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; E= existing entries with enlarged file scope, which receive documents from C or D entries, e.g. when a limiting reference is removed from the entry title; M = entries with no change to the file scope (no reclassification); D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed; U = entries that are unchanged.

## NOTES:

- \*\*No {curly brackets} are used for titles in CPC only subclasses, e.g. C12Y, A23Y; 2000 series symbol titles of groups found at the end of schemes (orthogonal codes); or the Y section titles. The {curly brackets} are used for 2000 series symbol titles found interspersed throughout the main trunk schemes (breakdown codes).
- For U groups, the minimum requirement is to include the U group located immediately prior to the N group or N group array, in order to show the N group hierarchy and improve the readability and understanding of the scheme. Always include the symbol, indent level and title of the U group in the table above.

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- 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 except “D” which requires only a symbol.
- #“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>” or “<administrative transfer to XX and YY simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be “invention information”, unless otherwise indicated, and to 2000 series groups is assumed to be “additional information”.

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

**SUBCLASS F21K – LIGHT SOURCES NOT OTHERWISE PROVIDED FOR**

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	F21K		The following IPC groups are not used in the CPC system. Subject matter covered by these groups is classified in the following CPC groups: F21K5/04 covered by G03B15/0457 F21K5/06 covered by G03B15/0442 F21K5/08 covered by F21K5/02, G03B15/0442 F21K5/10 covered by G03B15/0442 F21K5/12 covered by F21K5/023 F21K5/14 covered by F21K5/026, G03B15/0489 F21K5/16 covered by G03B15/0452 F21K5/18 covered by G03B15/0452 F21K5/20 covered by G03B15/0447 F21K5/22 covered by G03B15/0442
D	F21K 9/00	This group is not complete pending a reclassification; see also F21K99/00, H01L33/00, H01S5/00, H05B35/00	
N	F21K 9/00		Group F21K9/00 is incomplete pending reclassification of documents from groups F21K99/00, F21V19/042, F21V19/045, F21S2/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21K 9/00		Group F21K9/00 is impacted by reclassification into groups F21K9/20, F21K9/23, F21K9/232, F21K9/233, F21K9/235, F21K9/237, F21K9/238, F21K9/27, F21K9/272, F21K9/275, F21K9/278, F21K9/60, F21K9/61, F21K9/62, F21K9/64, F21K9/65, F21K9/66, F21K9/68, F21K9/69, F21K9/90 and F21K99/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21K 9/20		1. Group F21K9/20 is incomplete pending reclassification of documents from groups F21K9/00, F21K99/00, F21S2/00, F21V19/042 and F21V19/045. All groups listed in this Warning should be considered in order to perform a complete search.  2. Group F21K9/20 is impacted by reclassification into groups F21K9/23, F21K9/232, F21K9/233, F21K9/235, F21K9/237, F21K9/238, F21K9/27, F21K9/272, F21K9/275 and F21K9/278. All groups listed in this Warning should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	F21K 9/23		<p>1. Group F21K9/23 is incomplete pending reclassification of documents from groups F21K9/00, F21K9/20, F21K99/00, F21S2/00, F21V19/042 and F21V19/045. All groups listed in this Warning should be considered in order to perform a complete search.</p> <p>2. Group F21K9/23 is impacted by reclassification into F21K9/235, F21K9/237 and F21K9/238. All groups listed in this Warning should be considered in order to perform a complete search.</p>
N	F21K 9/232		Group F21K9/232 is incomplete pending reclassification of documents from groups F21K9/00, F21K9/20, F21K99/00, F21S2/00, F21V19/042 and F21V19/045. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21K 9/233		Group F21K9/233 is incomplete pending reclassification of documents from groups F21K9/00, F21K9/20, F21K99/00, F21S2/00, F21V19/042 and F21V19/045. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21K 9/235		Group F21K9/235 is incomplete pending reclassification of documents from groups F21K9/00, F21K9/20, F21K9/23, F21K99/00, F21S2/00, F21V19/042 and F21V19/045. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21K 9/237		Group F21K9/237 is incomplete pending reclassification of documents from groups F21K9/00, F21K9/20, F21K9/23, F21K99/00, F21S2/00, F21V19/042 and F21V19/045. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21K 9/238		Group F21K9/238 is incomplete pending reclassification of documents from groups F21K9/00, F21K9/20, F21K9/23, F21K99/00, F21S2/00, F21V19/042, F21V19/045, F21V23/003, F21V23/004, F21V23/005 and F21V23/006. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21K 9/27		<p>1. Group F21K9/27 is incomplete pending reclassification of documents from groups F21K9/00, F21K9/20, F21K99/00, F21S2/00, F21V19/042, F21V19/045. All groups listed in this Warning should be considered in order to perform a complete search.</p> <p>1. Group F21K9/27 is impacted by reclassification into groups F21K9/272, F21K9/275 and F21K9/278. All groups listed in this Warning should be considered in order to perform a complete search.</p>

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	F21K 9/272		Group F21K9/272 is incomplete pending reclassification of documents from groups F21K9/00, F21K9/20, F21K9/27, F21K99/00, F21S2/00, F21V19/042 and F21V19/045. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21K 9/275		Group F21K9/275 is incomplete pending reclassification of documents from groups F21K9/00, F21K9/20, F21K9/27, F21K99/00, F21S2/00, F21V19/042 and F21V19/045. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21K 9/278		Group F21K9/278 is incomplete pending reclassification of documents from groups F21K9/00, F21K9/20, F21K9/27, F21K99/00, F21S2/00, F21V19/042, F21V19/045, F21V23/003, F21V23/004, F21V23/005 and F21V23/006. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21K 9/60		1. Group F21K9/60 is incomplete pending reclassification of documents from groups F21K9/00, F21K99/00, F21S2/00, F21V19/042 and F21V19/045. All groups listed in this Warning should be considered in order to perform a complete search.  2. Group F21K9/60 is impacted by reclassification into groups F21K9/66, F21K9/68 and F21K9/69. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21K 9/61		Group F21K9/61 is incomplete pending reclassification of documents from groups F21K9/00, F21K99/00, F21S2/00, F21V19/042 and F21V19/045. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21K 9/62		Group F21K9/62 is incomplete pending reclassification of documents from groups F21K9/00, F21K99/00, F21S2/00, F21V19/042 and F21V19/045. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21K 9/64		Group F21K9/64 is incomplete pending reclassification of documents from groups F21K9/00, F21K99/00, F21S2/00, F21V19/042 and F21V19/045. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21K 9/65		Group F21K9/65 is incomplete pending reclassification of documents from groups F21K9/00, F21K99/00, F21S2/00, F21V19/042 and F21V19/045. All groups listed in this Warning should be considered in order to perform a complete search.

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	F21K 9/66		Group F21K9/66 is incomplete pending reclassification of documents from groups F21K9/00, F21K9/60, F21K99/00, F21S2/00, F21V19/042 and F21V19/045. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21K 9/68		Group F21K9/68 is incomplete pending reclassification of documents from groups F21K9/00, F21K9/60, F21K99/00, F21S2/00, F21V19/042 and F21V19/045. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21K 9/69		Group F21K9/69 is incomplete pending reclassification of documents from groups F21K9/00, F21K9/60, F21K99/00, F21S2/00, F21V19/042 and F21V19/045. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21K 9/90		Group F21K9/90 is incomplete pending reclassification of documents from groups F21K9/00, F21K99/00, F21S2/00, F21V19/042 and F21V19/045. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21K 99/00		1. Group F21K99/00 is incomplete pending reclassification of documents from groups F21V19/042 and F21V19/045. All groups listed in this Warning should be considered in order to perform a complete search.  2. Group F21K99/00 is impacted by reclassification into groups F21K9/00, F21K9/20, F21K9/23, F21K9/232, F21K9/233, F21K9/235, F21K9/237, F21K9/238, F21K9/27, F21K9/272, F21K9/275, F21K9/278, F21K9/60, F21K9/61, F21K9/62, F21K9/64, F21K9/65, F21K9/66, F21K9/68, F21K9/69 and F21K9/90. All groups listed in this Warning should be considered in order to perform a complete search.

**SUBCLASS F21S – NON-PORTABLE LIGHTING DEVICES OR SYSTEMS THEREOF**

<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
N	F21S 2/00		Group F21S2/00 is impacted by reclassification into groups F21K9/00, F21K9/20, F21K9/23, F21K9/232, F21K9/233, F21K9/235, F21K9/237, F21K9/238, F21K9/27, F21K9/272, F21K9/275, F21K9/278, F21K9/60, F21K9/61, F21K9/62, F21K9/64, F21K9/65, F21K9/66, F21K9/68, F21K9/69 and F21K9/90. All groups listed in this Warning should be considered in order to perform a complete search.

**SUBCLASS F21V – DETAILS OF LIGHTING DEVICES, OF GENERAL APPLICATION**

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<b><u>Type*</u></b>	<b><u>Location</u></b>	<b><u>Old Warning notice</u></b>	<b><u>New/Modified Warning notice</u></b>
N	F21V 19/042		Group F21V19/042 is no longer used for the classification of documents as of August 1, 2016. The content of this group is being reclassified into groups F21K9/00, F21K9/20, F21K9/23, F21K9/232, F21K9/233, F21K9/235, F21K9/237, F21K9/238, F21K9/27, F21K9/272, F21K9/275, F21K9/278, F21K9/60, F21K9/61, F21K9/62, F21K9/64, F21K9/65, F21K9/66, F21K9/68, F21K9/69, F21K9/90. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21V 19/045		Group F21V19/045 is no longer used for the classification of documents as of August 1, 2016. The content of this group is being reclassified into groups F21K9/00, F21K9/20, F21K9/23, F21K9/232, F21K9/233, F21K9/235, F21K9/237, F21K9/238, F21K9/27, F21K9/272, F21K9/275, F21K9/278, F21K9/60, F21K9/61, F21K9/62, F21K9/64, F21K9/65, F21K9/66, F21K9/68, F21K9/69, F21K9/90. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21V 23/003		Group F21V 23/003 is impacted by reclassification into groups F21K9/238 and F21K9/278. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21V 23/004		Group F21V 23/004 is impacted by reclassification into groups F21K9/238 and F21K9/278. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21V 23/005		Group F21V 23/005 is impacted by reclassification into groups F21K9/238 and F21K9/278. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21V 23/006		Group F21V 23/006 is impacted by reclassification into groups F21K9/238 and F21K9/278. All groups listed in this Warning should be considered in order to perform a complete search.

**SUBCLASS F21Y – INDEXING SCHEME RELATING TO THE FORM OF THE LIGHT SOURCES**

<b><u>Type*</u></b>	<b><u>Location</u></b>	<b><u>Old Warning notice</u></b>	<b><u>New/Modified Warning notice</u></b>
N	F21Y 2101/00		Group F21Y2101/00 is impacted by reclassification into groups F21Y2115/00, F21Y2115/10, F21Y2115/15 and F21Y2115/20. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21Y 2103/00		Group F21Y2103/00 is impacted by reclassification into groups F21Y2103/10 and F21Y2103/20. All groups listed in this Warning should be considered in order to perform a complete search.

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<b><u>Type*</u></b>	<b><u>Location</u></b>	<b><u>Old Warning notice</u></b>	<b><u>New/Modified Warning notice</u></b>
N	F21Y 2103/10		Group F21Y2103/10 is incomplete pending reclassification of documents from group F21Y2103/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21Y 2103/20		Group F21Y2103/20 is incomplete pending reclassification of documents from group F21Y2103/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21Y 2105/00		Group F21Y2105/00 is impacted by reclassification into groups F21Y2105/10, F21Y2105/12, F21Y2105/14, F21Y2105/16 and F21Y2105/18. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21Y 2105/10		1. Group F21Y2105/10 is incomplete pending reclassification of documents from group F21Y2105/00. All groups listed in this Warning should be considered in order to perform a complete search.  2. Group F21Y2105/00 is impacted by reclassification into groups F21Y2105/14, F21Y2105/16 and F21Y2105/18. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21Y 2105/12		Group F21Y2105/12 is incomplete pending reclassification of documents from group F21Y2105/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21Y 2105/14		Group F21Y2105/14 is incomplete pending reclassification of documents from groups F21Y2105/00 and F21Y2105/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21Y 2105/16		Group F21Y2105/16 is incomplete pending reclassification of documents from groups F21Y2105/00 and F21Y2105/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21Y 2105/18		Group F21Y2105/18 is incomplete pending reclassification of documents from groups F21Y2105/00 and F21Y2105/10. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21Y 2107/00		1. Group F21Y2107/00 is incomplete pending reclassification of documents from group F21Y2111/00. All groups listed in this Warning should be considered in order to perform a complete search.  2. Group F21Y2107/00 is impacted by reclassification into groups F21Y2107/70, F21Y2107/80 and F21Y2107/90. All groups listed in this Warning should be considered in order to perform a complete search.

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<b><u>Type*</u></b>	<b><u>Location</u></b>	<b><u>Old Warning notice</u></b>	<b><u>New/Modified Warning notice</u></b>
N	F21Y 2107/10		Group F21Y2107/10 is incomplete pending reclassification of documents from group F21Y2111/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21Y 2107/20		Group F21Y2107/20 is incomplete pending reclassification of documents from group F21Y2111/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21Y 2107/30		Group F21Y2107/30 is incomplete pending reclassification of documents from group F21Y2111/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21Y 2107/40		Group F21Y2107/40 is incomplete pending reclassification of documents from group F21Y2111/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21Y 2107/50		Group F21Y2107/50 is incomplete pending reclassification of documents from group F21Y2111/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21Y 2107/60		Group F21Y2107/60 is incomplete pending reclassification of documents from group F21Y2111/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21Y 2107/70		Group F21Y2107/70 is incomplete pending reclassification of documents from groups F21Y2107/00 and F21Y2111/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21Y 2107/80		Group F21Y2107/80 is incomplete pending reclassification of documents from groups F21Y2107/00 and F21Y2111/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21Y 2107/90		Group F21Y2107/90 is incomplete pending reclassification of documents from groups F21Y2107/00 and F21Y2111/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21Y 2109/00		Group F21Y2109/00 is incomplete pending reclassification of documents from group F21Y2111/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21Y 2111/00		Group F21Y 2111/00 is impacted by reclassification into groups F21Y2107/00, F21Y2107/10, F21Y2107/20, F21Y2107/30, F21Y2107/40, F21Y2107/50, F21Y2107/60, F21Y2107/70, F21Y2107/80, F21Y2107/90 and F21Y2109/00. All groups listed in this Warning should be considered in order to perform a complete search.

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<b><u>Type*</u></b>	<b><u>Location</u></b>	<b><u>Old Warning notice</u></b>	<b><u>New/Modified Warning notice</u></b>
N	F21Y 2115/00		Group F21Y2115/00 is incomplete pending reclassification of documents from group F21Y2101/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21Y 2115/10		Group F21Y2115/10 is incomplete pending reclassification of documents from group F21Y2101/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21Y 2115/15		Group F21Y2115/15 is incomplete pending reclassification of documents from group F21Y2101/00. All groups listed in this Warning should be considered in order to perform a complete search.
N	F21Y 2115/20		Group F21Y2115/20 is incomplete pending reclassification of documents from group F21Y2101/00. All groups listed in this Warning should be considered in order to perform a complete search.

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

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)

<u>Type</u> *	<u>Symbol</u>	<u>Old note</u>	<u>New note</u>
N	F21K		In this subclass, it is desirable to add the indexing codes of subclasses F21W and F21Y.
N	F21K9/00		<p>1. In this group, the following expressions are used with the meaning indicated:</p> <ul style="list-style-type: none"> <li>• “light source” means a light-generating component intended for installation in a fitting or holder incorporated in a lighting device;</li> <li>• “retrofit light source” means a light source comprising substantially the same attachment means as those of incandescent lamps or fluorescent lamps. “Retrofit light sources” are specially adapted for replacing or substituting such lamps.</li> </ul> <p>2. Semiconductor devices per se, or assemblies thereof, specially adapted for light emission, e.g. for use in light sources (in the sense of Note (1)) are covered by subclass H01L, e.g. H01L33/00 or H01L51/50, or by subclass H01S.</p> <p>3. Lighting devices or systems in which light sources are used are covered by subclasses F21L or F21S.</p> <p>4. When classifying in this group, classification is also made in subclass F21V if detail aspects covered by that subclass are of interest.</p>
M	F21W	This subclass constitutes an internal scheme for indexing only, associated with subclasses F21L, F21S and F21V, relating to uses or applications of lighting devices or systems.	This subclass constitutes an indexing scheme associated with subclasses F21K, F21L, F21S and F21V, relating to uses or applications of lighting devices or systems.
M	F21Y	This subclass constitutes an internal scheme for indexing only, associated with subclasses F21L, F21S and F21V, relating to the form of the light sources.	This subclass constitutes an indexing scheme associated with subclasses F21K, F21L, F21S and F21V, relating to the form or the kind of the light sources, or of the colour of the light emitted.

\*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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2. B. DEFINITIONS QUICK FIX

<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>																				
F21K2/00	References relevant to classification in this group	<p><i>This group does not cover:</i></p> <table border="1"> <tr> <td>Using excitation by another light source</td> <td>F21V9/16</td> </tr> <tr> <td>Lamps, other than those in which all the electrodes are within the vessel, in which a screen or coating is excited to luminesce by radioactive material located inside the vessel</td> <td>H01J65/08</td> </tr> <tr> <td>Using electroluminescence</td> <td>H05B33/00</td> </tr> <tr> <td>Frequency changing of light</td> <td>G02F2/02</td> </tr> <tr> <td>Light sources using a charge of combustible material</td> <td>F21K5/00</td> </tr> </table>	Using excitation by another light source	F21V9/16	Lamps, other than those in which all the electrodes are within the vessel, in which a screen or coating is excited to luminesce by radioactive material located inside the vessel	H01J65/08	Using electroluminescence	H05B33/00	Frequency changing of light	G02F2/02	Light sources using a charge of combustible material	F21K5/00	<p><i>This group does not cover:</i></p> <table border="1"> <tr> <td>Light sources using a charge of combustible material</td> <td>F21K5/00</td> </tr> </table> <p><i>Places in relation to which this group is residual:</i></p> <table border="1"> <tr> <td>Using excitation by another light source</td> <td>F21V9/16</td> </tr> <tr> <td>Frequency changing of light</td> <td>G02F2/02</td> </tr> <tr> <td>Lamps, other than those in which all the electrodes are within the vessel, in which a screen or coating is excited to luminesce by radioactive material located inside the vessel</td> <td>H01J65/08</td> </tr> <tr> <td>Using electroluminescence</td> <td>H05B33/00</td> </tr> </table>	Light sources using a charge of combustible material	F21K5/00	Using excitation by another light source	F21V9/16	Frequency changing of light	G02F2/02	Lamps, other than those in which all the electrodes are within the vessel, in which a screen or coating is excited to luminesce by radioactive material located inside the vessel	H01J65/08	Using electroluminescence	H05B33/00
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Using electroluminescence	H05B33/00																						
F21K2/005	References relevant to classification in this group		<p><i>Places in relation to which this group is residual:</i></p> <table border="1"> <tr> <td>Frequency changing of light</td> <td>G02F2/02</td> </tr> </table>	Frequency changing of light	G02F2/02																		
Frequency changing of light	G02F2/02																						
F21K5/00	References relevant to classification in this group	<p><i>This group does not cover:</i></p> <table border="1"> <tr> <td>Fireworks</td> <td>F42B4/00</td> </tr> <tr> <td>Photographic flash units</td> <td>G03B15/03</td> </tr> </table>	Fireworks	F42B4/00	Photographic flash units	G03B15/03	<p><i>Places in relation to which this group is residual:</i></p> <table border="1"> <tr> <td>Explosive or thermic compositions</td> <td>C06B</td> </tr> <tr> <td>Fireworks</td> <td>F42B4/00</td> </tr> <tr> <td>Photographic flash units</td> <td>G03B15/03</td> </tr> </table>	Explosive or thermic compositions	C06B	Fireworks	F42B4/00	Photographic flash units	G03B15/03										
Fireworks	F42B4/00																						
Photographic flash units	G03B15/03																						
Explosive or thermic compositions	C06B																						
Fireworks	F42B4/00																						
Photographic flash units	G03B15/03																						
F21K5/00	Informative reference	<p><i>Attention is drawn to the following places, which may be of interest for search:</i></p> <table border="1"> <tr> <td>Explosive or thermic compositions</td> <td>C06B</td> </tr> </table>	Explosive or thermic compositions	C06B	deleted																		
Explosive or thermic compositions	C06B																						

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F21K5/023	References relevant to classification in this group	<p>Delete:</p> <p><i>This group does not cover:</i></p> <table border="1" data-bbox="516 432 1024 730"> <tr> <td data-bbox="516 432 846 554">Ignition devices being part of a shutter mechanism included in a camera</td> <td data-bbox="846 432 1024 554">G03B9/70</td> </tr> <tr> <td data-bbox="516 554 846 646">Ignition devices not being part of a shutter mechanism and included in a camera</td> <td data-bbox="846 554 1024 646">G03B15/04</td> </tr> <tr> <td data-bbox="516 646 846 730">Ignition circuits for combustion lamps</td> <td data-bbox="846 646 1024 730">H05B43/02</td> </tr> </table>	Ignition devices being part of a shutter mechanism included in a camera	G03B9/70	Ignition devices not being part of a shutter mechanism and included in a camera	G03B15/04	Ignition circuits for combustion lamps	H05B43/02	<p>Add:</p> <p><i>Places in relation to which this group is residual:</i></p> <table border="1" data-bbox="1052 464 1563 751"> <tr> <td data-bbox="1052 464 1382 585">Ignition devices being part of a shutter mechanism included in a camera</td> <td data-bbox="1382 464 1563 585">G03B9/70</td> </tr> <tr> <td data-bbox="1052 585 1382 678">Ignition devices not being part of a shutter mechanism and included in a camera</td> <td data-bbox="1382 585 1563 678">G03B15/04</td> </tr> <tr> <td data-bbox="1052 678 1382 751">Ignition circuits for combustion lamps</td> <td data-bbox="1382 678 1563 751">H05B43/02</td> </tr> </table>	Ignition devices being part of a shutter mechanism included in a camera	G03B9/70	Ignition devices not being part of a shutter mechanism and included in a camera	G03B15/04	Ignition circuits for combustion lamps	H05B43/02		
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F21K5/026	References relevant to classification in this group		<p>Add:</p> <p><i>Places in relation to which this group is residual:</i></p> <table border="1" data-bbox="1052 911 1563 1031"> <tr> <td data-bbox="1052 911 1382 1031">Ignition devices using mechanical firing included in a camera</td> <td data-bbox="1382 911 1563 1031">G03B15/0489</td> </tr> </table>	Ignition devices using mechanical firing included in a camera	G03B15/0489												
Ignition devices using mechanical firing included in a camera	G03B15/0489																
F21K9/00	References relevant to classification in this group	<p><i>This group does not cover:</i></p> <table border="1" data-bbox="516 1066 1024 1220"> <tr> <td data-bbox="516 1066 846 1220">Electric lamps using a combination of different types of light generation</td> <td data-bbox="846 1066 1024 1220">H05B 35/00</td> </tr> </table>	Electric lamps using a combination of different types of light generation	H05B 35/00	<p><i>Places in relation to which this group is residual:</i></p> <table border="1" data-bbox="1052 1125 1563 1682"> <tr> <td data-bbox="1052 1125 1382 1247">Light emitting diodes, LED packages</td> <td data-bbox="1382 1125 1563 1247">H01L33/00</td> </tr> <tr> <td data-bbox="1052 1247 1382 1369">OLEDs per se</td> <td data-bbox="1382 1247 1563 1369">H01L51/50</td> </tr> <tr> <td data-bbox="1052 1369 1382 1409">Laser diodes per se</td> <td data-bbox="1382 1369 1563 1409">H01S5/00</td> </tr> <tr> <td data-bbox="1052 1409 1382 1470">Details of circuits arrangements for LED's</td> <td data-bbox="1382 1409 1563 1470">H05B33/0803</td> </tr> <tr> <td data-bbox="1052 1470 1382 1533">Control related to points in colour temperature diagram</td> <td data-bbox="1382 1470 1563 1533">H05B33/0857</td> </tr> <tr> <td data-bbox="1052 1533 1382 1682">Electric lamps using a combination of different types of light generation</td> <td data-bbox="1382 1533 1563 1682">H05B 35/00</td> </tr> </table>	Light emitting diodes, LED packages	H01L33/00	OLEDs per se	H01L51/50	Laser diodes per se	H01S5/00	Details of circuits arrangements for LED's	H05B33/0803	Control related to points in colour temperature diagram	H05B33/0857	Electric lamps using a combination of different types of light generation	H05B 35/00
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Control related to points in colour temperature diagram	H05B33/0857																
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F21K9/00	Informative references	<p><i>Attention is drawn to the following places, which may be of interest for search:</i></p> <table border="1" data-bbox="513 373 1027 1052"> <tr> <td>Systems of lighting devices of a modular construction, not provided for in main groups F21S 4/00 to F21S 10/00 or F21S 19/00</td> <td>F21S 2/005</td> </tr> <tr> <td>Lighting devices using a string rigidly mounted on a frame or included in a resin</td> <td>F21S 4/20</td> </tr> <tr> <td>Details of lighting devices</td> <td>F21V</td> </tr> <tr> <td>Details of printed circuit boards</td> <td>H05K</td> </tr> <tr> <td>Light emitting diodes, LED packages</td> <td>H01L33/00</td> </tr> <tr> <td>Packages with a plurality of LED dies</td> <td>H01L25/0753</td> </tr> <tr> <td>Laser diodes per se</td> <td>H01S5/00</td> </tr> <tr> <td>OLEDs per se</td> <td>H01L51/50</td> </tr> <tr> <td>Details of circuits arrangements for LED's</td> <td>H05B33/0803</td> </tr> <tr> <td>Control related to points in colour temperature diagram</td> <td>H05B33/0857</td> </tr> </table>	Systems of lighting devices of a modular construction, not provided for in main groups F21S 4/00 to F21S 10/00 or F21S 19/00	F21S 2/005	Lighting devices using a string rigidly mounted on a frame or included in a resin	F21S 4/20	Details of lighting devices	F21V	Details of printed circuit boards	H05K	Light emitting diodes, LED packages	H01L33/00	Packages with a plurality of LED dies	H01L25/0753	Laser diodes per se	H01S5/00	OLEDs per se	H01L51/50	Details of circuits arrangements for LED's	H05B33/0803	Control related to points in colour temperature diagram	H05B33/0857	<p><i>Attention is drawn to the following places, which may be of interest for search:</i></p> <table border="1" data-bbox="1044 373 1554 783"> <tr> <td>Systems of lighting devices of a modular construction, not provided for in main groups F21S 4/00 to F21S 10/00 or F21S 19/00</td> <td>F21S 2/005</td> </tr> <tr> <td>Lighting devices using a string rigidly mounted on a frame or included in a resin</td> <td>F21S 4/20</td> </tr> <tr> <td>Details of lighting devices</td> <td>F21V</td> </tr> <tr> <td>Details of printed circuit boards</td> <td>H05K</td> </tr> <tr> <td>Packages with a plurality of LED dies</td> <td>H01L25/0753</td> </tr> </table>	Systems of lighting devices of a modular construction, not provided for in main groups F21S 4/00 to F21S 10/00 or F21S 19/00	F21S 2/005	Lighting devices using a string rigidly mounted on a frame or included in a resin	F21S 4/20	Details of lighting devices	F21V	Details of printed circuit boards	H05K	Packages with a plurality of LED dies	H01L25/0753
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F21K9/00	Special rules of classification within this group	The Indexing Code F21Y 2101/02 is not given to a document with only classification in F21K 9/00.	deleted																														
H01J31/00	Informative references	<p>[...] Lamps, e.g. flat panel lamps</p> <table border="1" data-bbox="513 1209 1027 1287"> <tr> <td>Electric lamps using light emitting diode (LED)</td> <td>F21K 9/00</td> </tr> </table> <p>[...]</p>	Electric lamps using light emitting diode (LED)	F21K 9/00	<p>[...] Lamps, e.g. flat panel lamps</p> <table border="1" data-bbox="1044 1209 1554 1377"> <tr> <td>Light sources using semiconductor devices as light-generating elements, e.g. using light-emitting diodes [LED] or lasers</td> <td>F21K 9/00</td> </tr> </table> <p>[...]</p>	Light sources using semiconductor devices as light-generating elements, e.g. using light-emitting diodes [LED] or lasers	F21K 9/00																										
Electric lamps using light emitting diode (LED)	F21K 9/00																																
Light sources using semiconductor devices as light-generating elements, e.g. using light-emitting diodes [LED] or lasers	F21K 9/00																																
G09G3/3406	Informative references	Delete:  Constructional aspects of electric lamps using semiconductor devices as light generating elements. F21K7/00, F21K 9/00	Add:  Light sources using semiconductor devices as light-generating elements, e.g. using light-emitting diodes [LED] or lasers F21K 9/00																														
H01L25/048	Informative references	Delete:  Electric lamps using LEDs F21K9/00	Add:  Light sources using semiconductor devices as light-generating elements, e.g. using light-emitting diodes [LED] or lasers F21K9/00																														

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H01L25/075	Informative references	Delete: Electric lamps using LEDs F21K9/00	Add: Light sources using semiconductor devices as light-generating elements, e.g. using light-emitting diodes [LED] or lasers F21K9/00
H01L27/00	Informative references	[...] Electric lamps using semiconductor devices as light generating elements F21K9/00 [...]	[...] Light sources using semiconductor devices as light-generating elements, e.g. using light-emitting diodes [LED] or lasers F21K9/00 [...]
H01L33/00	Informative references	Delete: Electric lamps using LEDs F21K 9/00	Add: Light sources using semiconductor devices as light-generating elements, e.g. using light-emitting diodes [LED] or lasers F21K 9/00
H01L51/50	Informative references	Delete: Electric lamps using semiconductor devices as light generating elements F21K 9/00	Add: Light sources using semiconductor devices as light-generating elements, e.g. using light-emitting diodes [LED] or lasers F21K 9/00

NOTES:

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

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3. REVISION CONCORDANCE LIST (RCL)

<b>Type*</b>	<b>From CPC Symbol (existing)</b>	<b>To CPC Symbol(s)</b>
C	F21K9/00	F21K9/00, F21K9/20, F21K9/23, F21K9/232, F21K9/233, F21K9/235, F21K9/237, F21K9/238, F21K9/27, F21K9/272, F21K9/275, F21K9/278, F21K9/60, F21K9/61, F21K9/62, F21K9/64, F21K9/65, F21K9/66, F21K9/68, F21K9/69, F21K9/90
D	F21K9/10	<administrative transfer to F21K9/20>
D	F21K9/13	<administrative transfer to F21K9/23>
D	F21K9/135	<administrative transfer to F21K9/232>
D	F21K9/1355	<administrative transfer to F21K9/23>
D	F21K9/137	<administrative transfer to F21K9/233>
D	F21K9/1375	<administrative transfer to F21K9/23>
D	F21K9/17	<administrative transfer to F21K9/27>
D	F21K9/175	<administrative transfer to F21K9/27>
Q	F21K9/20	F21K 9/20, F21K 9/23, F21K 9/232, F21K 9/233, F21K 9/235, F21K 9/237, F21K 9/238, F21K 9/27, F21K 9/272, F21K 9/275, F21K 9/278
Q	F21K9/23	F21K9/23, F21K9/235, F21K9/237, F21K9/238
Q	F21K9/27	F21K9/27, F21K9/272, F21K9/275, F21K9/278
D	F21K9/30	<administrative transfer to F21K9/20>
D	F21K9/50	<administrative transfer to F21K9/60>
D	F21K9/52	<administrative transfer to F21K9/61>
D	F21K9/54	<administrative transfer to F21K9/62>
D	F21K9/56	<administrative transfer to F21K9/64>
D	F21K9/58	<administrative transfer to F21K9/65>
Q	F21K9/60	F21K9/60, F21K9/66, F21K9/68, F21K9/69
C	F21K99/00	F21K9/00, F21K9/20, F21K9/23, F21K9/232, F21K9/233, F21K9/235, F21K9/237, F21K9/238, F21K9/27, F21K9/272, F21K9/275, F21K9/278, F21K9/60, F21K9/61, F21K9/62, F21K9/64, F21K9/65, F21K9/66, F21K9/68, F21K9/69, F21K9/90, F21K99/00
C	F21S2/00	F21K9/00, F21K9/20, F21K9/23, F21K9/232, F21K9/233, F21K9/235, F21K9/237, F21K9/238, F21K9/27, F21K9/272, F21K9/275, F21K9/278, F21K9/60, F21K9/61, F21K9/62, F21K9/64, F21K9/65, F21K9/66, F21K9/68, F21K9/69, F21K9/90, F21S2/00
F	F21V19/042	F21K9/00, F21K9/20, F21K9/23, F21K9/232, F21K9/233, F21K9/235, F21K9/237, F21K9/238, F21K9/27, F21K9/272, F21K9/275, F21K9/278, F21K9/60, F21K9/61, F21K9/62, F21K9/64, F21K9/65, F21K9/66, F21K9/68, F21K9/69, F21K9/90
F	F21V19/045	F21K9/00, F21K9/20, F21K9/23, F21K9/232, F21K9/233, F21K9/235, F21K9/237, F21K9/238, F21K9/27, F21K9/272, F21K9/275, F21K9/278, F21K9/60, F21K9/61, F21K9/62, F21K9/64, F21K9/65, F21K9/66, F21K9/68, F21K9/69, F21K9/90
C	F21V 23/003	F21V23/003, F21K9/238, F21K9/278
C	F21V 23/004	F21V23/004, F21K9/238, F21K9/278

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C	F21V 23/005	F21V23/005, F21K9/238, F21K9/278
C	F21V 23/006	F21V23/006, F21K9/238, F21K9/278
C	F21Y2101/00	F21Y2101/00, F21Y2115/00, F21Y2115/10, F21Y2115/15, F21Y2115/20
D	F21Y2101/02	<administrative transfer to F21Y2101/00>
D	F21Y2101/025	<administrative transfer to F21Y2115/30 and F21Y2101/00 simultaneously>
C	F21Y2103/00	F21Y2103/00, F21Y2103/10, F21Y2103/20
D	F21Y2103/003	<administrative transfer to F21Y2103/10 and F21Y2115/10 simultaneously>
D	F21Y2103/006	<administrative transfer to F21Y2103/00 and F21Y2115/20 simultaneously>
D	F21Y2103/02	<administrative transfer to F21Y2103/30>
D	F21Y2103/022	<administrative transfer to F21Y2103/33>
D	F21Y2103/025	<administrative transfer to F21Y2103/37>
C	F21Y2105/00	F21Y2105/00, F21Y2105/10, F21Y2105/12, F21Y2105/14, F21Y2105/16, F21Y2105/18
D	F21Y2105/001	<administrative transfer to F21Y2105/10 and F21Y2115/10 simultaneously>
D	F21Y2105/003	<administrative transfer to F21Y2105/12 and F21Y2115/10 simultaneously>
D	F21Y2105/005	<administrative transfer to F21Y2107/50 and F21Y2115/10 simultaneously>
D	F21Y2105/006	<administrative transfer to F21Y2105/00 and F21Y2115/20 simultaneously>
D	F21Y2105/008	<administrative transfer to F21Y2105/00 and F21Y2115/15 simultaneously>
Q	F21Y2105/10	F21Y2105/10, F21Y2105/14, F21Y2105/16, F21Y2105/18
Q	F21Y2107/00	F21Y2107/00, F21Y2107/70, F21Y2107/80, F21Y2107/90
C	F21Y2111/00	F21Y 2111/00, F21Y 2107/00, F21Y 2107/10, F21Y 2107/20, F21Y 2107/30, F21Y 2107/40, F21Y 2107/50, F21Y 2107/60, F21Y 2107/70, F21Y 2107/80, F21Y 2107/90, F21Y 2109/00
D	F21Y2111/001	<administrative transfer to F21Y2107/00 and F21Y2115/10 simultaneously>
D	F21Y2111/002	<administrative transfer to F21Y2107/10 and F21Y2115/10 simultaneously>
D	F21Y2111/004	<administrative transfer to F21Y2107/20 and F21Y2115/10 simultaneously>
D	F21Y2111/005	<administrative transfer to F21Y2107/30 and F21Y2115/10 simultaneously>
D	F21Y2111/007	<administrative transfer to F21Y2107/40 and F21Y2115/10 simultaneously>
D	F21Y2111/008	<administrative transfer to F21Y2107/60 and F21Y2115/10 simultaneously>
D	F21Y2113/002	<administrative transfer to F21Y2113/10>
D	F21Y2113/005	<administrative transfer to F21Y2113/13 and F21Y2115/10 simultaneously>

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<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
D	F21Y2113/007	<administrative transfer to F21Y2113/17 and F21Y2115/10 simultaneously>
D	F21Y2113/02	<administrative transfer to F21Y2113/20>

\* 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.

NOTES:

- Only C, D, and Q type entries are included in the table above.
- When multiple symbols are included in the “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>” or “<administrative transfer to XX and YY simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be “invention information”, unless otherwise indicated, and to 2000 series groups is assumed to be “additional information”.

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
F21K9/00	F21K9/00	UPDATED
F21K9/10		DELETE
F21K9/13		DELETE
F21K9/135		DELETE
F21K9/1355		DELETE
F21K9/137		DELETE
F21K9/1375		DELETE
F21K9/17		DELETE
F21K9/175		DELETE
F21K9/20	F21K 9/20	NEW
F21K9/23	F21K 9/23	NEW
F21K9/232	F21K 9/232	NEW
F21K9/233	F21K 9/233	NEW
F21K9/235	F21K 9/235	NEW
F21K9/237	F21K 9/237	NEW
F21K9/238	F21K 9/238	NEW
F21K9/27	F21K 9/27	NEW
F21K9/272	F21K 9/272	NEW
F21K9/275	F21K 9/275	NEW
F21K9/278	F21K 9/278	NEW
F21K9/30		DELETE
F21K9/50		DELETE
F21K9/52		DELETE
F21K9/54		DELETE
F21K9/56		DELETE
F21K9/58		DELETE
F21K9/60	F21K 9/60	NEW
F21K9/61	F21K 9/61	NEW
F21K9/62	F21K 9/62	NEW
F21K9/64	F21K 9/64	NEW
F21K9/65	F21K 9/65	NEW
F21K9/66	F21K 9/66	NEW
F21K9/68	F21K 9/68	NEW
F21K9/69	F21K 9/69	NEW
F21K9/90	F21K9/90	UPDATED
F21Y2101/02		DELETE
F21Y2101/025		DELETE
F21Y2103/003		DELETE
F21Y2103/006		DELETE
F21Y2103/02		DELETE
F21Y2103/022		DELETE
F21Y2103/025		DELETE
F21Y2103/10	F21Y 103/10	NEW

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<b><u>CPC</u></b>	<b><u>IPC</u></b>	<b><u>Action*</u></b>
F21Y2103/20	F21Y 103/20	NEW
F21Y2103/30	F21Y 103/30	NEW
F21Y2103/33	F21Y 103/33	NEW
F21Y2103/37	F21Y 103/37	NEW
F21Y2105/001		DELETE
F21Y2105/003		DELETE
F21Y2105/005		DELETE
F21Y2105/006		DELETE
F21Y2105/008		DELETE
F21Y2105/10	F21Y 105/10	NEW
F21Y2105/12	F21Y 105/12	NEW
F21Y2105/14	F21Y 105/14	NEW
F21Y2105/16	F21Y 105/16	NEW
F21Y2105/18	F21Y 105/18	NEW
F21Y2107/00	F21Y 107/00	NEW
F21Y2107/10	F21Y 107/10	NEW
F21Y2107/20	F21Y 107/20	NEW
F21Y2107/30	F21Y 107/30	NEW
F21Y2107/40	F21Y 107/40	NEW
F21Y2107/50	F21Y 107/50	NEW
F21Y2107/60	F21Y 107/60	NEW
F21Y2107/70	F21Y 107/70	NEW
F21Y2107/80	F21Y 107/80	NEW
F21Y2107/90	F21Y 107/90	NEW
F21Y2109/00	F21Y 109/00	NEW
F21Y2111/001		DELETE
F21Y2111/002		DELETE
F21Y2111/004		DELETE
F21Y2111/005		DELETE
F21Y2111/007		DELETE
F21Y2111/008		DELETE
F21Y2113/002		DELETE
F21Y2113/005		DELETE
F21Y2113/007		DELETE
F21Y2113/02		DELETE
F21Y2113/10	F21Y 113/10	NEW
F21Y2113/13	F21Y 113/13	NEW
F21Y2113/17	F21Y 113/17	NEW
F21Y2113/20	F21Y 113/20	NEW
F21Y2115/00	F21Y 115/00	NEW
F21Y2115/10	F21Y 115/10	NEW
F21Y2115/15	F21Y 115/15	NEW
F21Y2115/20	F21Y 115/20	NEW
F21Y2115/30	F21Y 115/30	NEW

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\*Action column:

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

NOTES:

- F symbols are not included in the CICL table above.
- E 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)

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>
F21L4/025	F21Y2113/02	Special rules of classification within this group	F21Y2113/20
F21L4/027	F21Y2101/02	Special rules of classification within this group	F21Y2101/00
F21S4/20	F21K9/17	References relevant to classification in this group	F21K9/27
F21S8/031	F21Y2103/00	Special rules of classification within this group	Replace existing text with: In this group, it is desirable to add the Indexing Codes of F21Y2103/00
F21V7/0058	F21Y2103/02	Special rules of classification within this group	F21Y2103/30
G02F1/23	F21K99/00	Relationship between large subject matter areas	<i>Replace existing symbol with:</i> F21K9/00 - F21K99/00
H01L 51/50	F21Y2105/008	Informative references	F21Y2107/60 and F21Y2115/10
H01S	F21K99/00	Informative references	<i>Replace existing symbol with:</i> F21K9/00 - F21K99/00

NOTES:

- The CRL tables above are used for changes to locations **outside** of the project scope. Changes to references in scheme titles or definitions **inside** the project scope will be reflected in the “scheme change” template or one of the “definition” templates.
- In addition to other changes proposed in the tables above, in the column titled “Referenced subclass or group to be changed,” **referenced** D symbols should indicate an action of “delete” or should indicate a replacement symbol and **referenced** F symbols should indicate a replacement symbol.
- When a reference is deleted, text related to that reference will also be deleted unless other references or a range of references associated with the same text remain.