CPC COOPERATIVE PATENT CLASSIFICATION

F MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING (NOTE omitted)

LIGHTING; HEATING

F21 LIGHTING

(NOTE omitted)

F21K NON-ELECTRIC LIGHT SOURCES USING LUMINESCENCE; LIGHT SOURCES USING ELECTROCHEMILUMINESCENCE; LIGHT SOURCES USING CHARGES OF COMBUSTIBLE MATERIAL; LIGHT SOURCES USING SEMICONDUCTOR DEVICES AS LIGHT-GENERATING ELEMENTS; LIGHT SOURCES NOT OTHERWISE PROVIDED FOR

NOTE

In this subclass, it is desirable to add the indexing codes of subclasses <u>F21W</u> and <u>F21Y</u>.

WARNING

The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

F21K 5/04	covered by	G03B 15/0457;
F21K 5/06	covered by	G03B 15/0442;
F21K 5/08	covered by	F21K 5/02, G03B 15/0442;
F21K 5/10	covered by	G03B 15/0442;
F21K 5/12	covered by	F21K 5/023;
F21K 5/14	covered by	F21K 5/026, G03B 15/0489;
F21K 5/16	covered by	G03B 15/0452;
F21K 5/18	covered by	G03B 15/0452;
F21K 5/20	covered by	G03B 15/0447;
F21K 5/22	covered by	G03B 15/0442.

2/00 Non-electric light sources using luminescence

(using excitation by radioactivity <u>G21H 3/02</u>, <u>H01J 65/06</u>, <u>H01J 65/08</u>; using excitation by an external electromagnetic field or by external corpuscular radiation <u>H01J 65/04</u>); **Light sources**

using electrochemiluminescence

2/005 • {excited by infrared radiation using up-conversion}

2/04 . using triboluminescence; using thermoluminescence

2/06 . using chemiluminescence

2/08 . . activated by an electric field, i.e. electrochemiluminescence

5/00 Light sources using charges of combustible material, e.g. illuminating flash devices

 {ignited in a non-disrupting container, e.g. photoflash bulb}

5/023 . . {Ignition devices in photo flash bulbs}

5/026 • • • {using mechanical firing, e.g. percussion of a fulminating charge}

9/00 Light sources using semiconductor devices as light-generating elements, e.g. using light-emitting diodes [LED] or lasers

NOTES

1. In this group, the following expressions are used with the meaning indicated:

- "light source" means a light-generating component intended for installation in a fitting or holder incorporated in a lighting device;
- "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.
- 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 <u>H01S</u> (e.g. <u>H01S 5/00</u>), <u>H10H</u> (e.g. <u>H10H 20/00</u> and <u>H10H 29/20</u>, and <u>H10K</u> (e.g. <u>H10K 50/00</u> and <u>H10K 59/00</u>)
- Lighting devices or systems in which light sources are used are covered by subclasses F21L or F21S.
- 4. When classifying in this group, classification is also made in subclass F21V if detail aspects covered by that subclass are of interest.
- . Light sources comprising attachment means
- 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

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9/20

9/23

99/00	Subject matter not provided for in other groups of this subclass
9/90	Methods of manufacture
9/69	Details of refractors forming part of the light source
9/68	Details of reflectors forming part of the light source
9/66	 of parts Details of globes or covers forming part of the light source
9/65	 specially adapted for changing the characteristics or the distribution of the light, e.g. by adjustment
9/64	using wavelength conversion means distinct or spaced from the light-generating element, e.g. a remote phosphor layer
9/61	using right guides using mixing chambers, e.g. housings with reflective walls
9/60 9/61	 Optical arrangements integrated in the light source, e.g. for improving the colour rendering index or the light extraction using light guides
9/278	Arrangement or mounting of circuit elements integrated in the light source
9/275	 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 (F21K 9/278 takes precedence)
9/272	 substitution of fluorescent tubes Details of end parts, i.e. the parts that connect the light source to a fitting; Arrangement of components within end parts (F21K 9/278 takes precedence)
9/27	• Retrofit light sources for lighting devices with two fittings for each light source, e.g. for
9/238	 precedence) Arrangement or mounting of circuit elements integrated in the light source
9/237	Arrangement of components within bases or caps (F21K 9/238 takes precedence) Details of housings or cases, i.e. the parts between the light-generating element and the bases; Arrangement of components within housings or cases (F21K 9/238 takes)
9/235	lamps Details of bases or caps, i.e. the parts that connect the light source to a fitting;
9/233	glass bulb • specially adapted for generating a spot light distribution, e.g. for substitution of reflector
9/232	 specially adapted for generating an essentially omnidirectional light distribution, e.g. with a

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