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 F21W and F21Y.

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

2/00	Non-electric light sources using luminescence		 "light source" means a light-generating 	
	(using excitation by radioactivity G21H 3/02,		component intended for installation in a fitting	
	H01J 65/06, H01J 65/08; using excitation by		or holder incorporated in a lighting device;	
	an external electromagnetic field or by external		• "retrofit light source" means a light source	
	corpuscular radiation H01J 65/04); Light sources		comprising substantially the same attachment	
	using electrochemiluminescence		means as those of incandescent lamps or	
2/005	• {excited by infrared radiation using up-conversion}		fluorescent lamps. "Retrofit light sources" are	
2/04	• using triboluminescence; using thermoluminescence		specially adapted for replacing or substituting	
2/06	• using chemiluminescence		such lamps.	
2/08	• • activated by an electric field, i.e.		2. Semiconductor devices per se, or assemblies	
	electrochemiluminescence		thereof, specially adapted for light emission,	
			e.g. for use in light sources (in the sense of	
5/00	Light sources using charges of combustible		Note (1)) are covered by subclasses <u>H01L</u> (e.g.	
	material, e.g. illuminating flash devices		<u>H01L 33/00</u>), <u>H01S</u> (e.g. <u>H01S 5/00</u>) or class	
5/02	• {ignited in a non-disrupting container, e.g. photo-		<u>H10</u> and subclass <u>H10K</u> (e.g. <u>H10K 50/00</u> and	
	flash bulb}		<u>H10K 59/00</u>)	
5/023	• • {Ignition devices in photo flash bulbs}		3. Lighting devices or systems in which light sources	
5/026	• • • {using mechanical firing, e.g. percussion of a		are used are covered by subclasses $\underline{F21L}$ or $\underline{F21S}$.	
	fulminating charge}		4. When classifying in this group, classification	
0.000			is also made in subclass F21V if detail aspects	
9/00	Light sources using semiconductor devices as		covered by that subclass are of interest.	
	light-generating elements, e.g. using light-emitting			
	diodes [LED] or lasers	9/20	Light sources comprising attachment means	
	<u>NOTES</u>	9/23	• Retrofit light sources for lighting devices with	
			a single fitting for each light source, e.g. for	

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

substitution of incandescent lamps with bayonet

or threaded fittings

F21K

9/232	specially adapted for generating an essentially
	omnidirectional light distribution, e.g. with a
0/222	glass bulb
9/233	specially adapted for generating a spot light distribution, e.g. for substitution of reflector
	lamps
9/235	• • Details of bases or caps, i.e. the parts
	that connect the light source to a fitting;
	Arrangement of components within bases or
	caps (F21K 9/238 takes precedence)
9/237	• • 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
	precedence)
9/238	Arrangement or mounting of circuit elements
	integrated in the light source
9/27	Retrofit light sources for lighting devices
	with two fittings for each light source, e.g. for substitution of fluorescent tubes
9/272	• • Details of end parts, i.e. the parts that connect
)/2/2	the light source to a fitting; Arrangement of
	components within end parts (F21K 9/278
	takes precedence)
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)
9/278	Arrangement or mounting of circuit elements
	integrated in the light source
9/60	• Optical arrangements integrated in the light source,
	e.g. for improving the colour rendering index or the light extraction
9/61	using light guides
9/62	• using mixing chambers, e.g. housings with
	reflective walls
9/64	using wavelength conversion means distinct or
	spaced from the light-generating element, e.g. a
0/65	remote phosphor layer
9/65	• specially adapted for changing the characteristics or the distribution of the light, e.g. by adjustment
	of parts
9/66	• Details of globes or covers forming part of the
	light source
9/68	Details of reflectors forming part of the light
0/60	source
9/69	• Details of refractors forming part of the light source
9/90	• Methods of manufacture
99/00	Subject matter not provided for in other groups of
22100	this subclass