

**CPC****COOPERATIVE PATENT CLASSIFICATION****F21K****LIGHT SOURCES NOT OTHERWISE PROVIDED FOR****WARNING**

1. The following IPC groups are not used in the CPC system. Subject matter covered by these groups is classified in the following CPC groups:

<a href="#">F21K 5/04</a>	covered by	<a href="#">G03B 15/0457</a>	
<a href="#">F21K 5/06</a>	" "	<a href="#">G03B 15/0442</a>	
<a href="#">F21K 5/08</a>	" "	<a href="#">F21K 5/02</a>	
,	<a href="#">G03B 15/0442</a>	<a href="#">F21K 5/10</a> "	
"	<a href="#">G03B 15/0442</a>	<a href="#">F21K 5/12</a> "	
"	<a href="#">F21K 5/023</a>	<a href="#">F21K 5/14</a> "	
"	<a href="#">F21K 5/026</a>	,	<a href="#">G03B 15/0489</a>
<a href="#">F21K 5/16</a>	" "	<a href="#">G03B 15/0452</a>	
<a href="#">F21K 5/18</a>	" "	<a href="#">G03B 15/0452</a>	
<a href="#">F21K 5/20</a>	" "	<a href="#">G03B 15/0447</a>	
<a href="#">F21K 5/22</a>	" "	<a href="#">G03B 15/0442</a>	

2. Groups [F21K 9/00](#) to [F21K 9/90](#) do not correspond to former or current IPC groups.

Concordance CPC : IPC for these groups is as follows:

- [F21K 9/00](#) to [F21K 9/90](#) : [F21K 99/00](#)

**F21K 2/00**

**Light sources using luminescence** (using excitation by another light source [F21V 9/16](#) ; 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 [H01J 65/08](#) ; using electroluminescence [H05B 33/00](#))

**F21K 2/005**

- {excited by infra-red radiation using up-conversion (frequency changing of light [G02F 2/02](#))}

**F21K 2/04**

- using triboluminescence; using thermoluminescence

**F21K 2/06**

- using chemiluminescence

**F21K 2/08**

- activated by an electric field i.e. electrochemiluminescence

**F21K 5/00**

**Light sources using a charge of combustible material, e.g. illuminating flash devices** (explosive or thermic compositions [C06B](#); fireworks [F42B 4/00](#) ; photographic flash units [G03B 15/03](#))

**F21K 5/02**

- ignited in a non-disrupting container, e.g. photo-flash bulb

**F21K 5/023**

- {Ignition devices in photo flash bulbs (ignition devices being part of a shutter mechanism included in a camera [G03B 9/70](#) ; ignition devices not being part of a shutter mechanism included in a camera [G03B 15/04](#) ; ignition circuits for combustion lamps [H05B 43/02](#))}

**F21K 5/026**

- {using mechanical firing e.g. percussion of a fulminating charge (if included in a camera [G03B 15/0489](#))}

<b>F21K 9/00</b>	<b>{Electric lamps using semiconductor devices as light generating elements, e.g. using light emitting diodes [LED] or lasers (light emitting diodes per se <a href="#">H01L 33/00</a> , <a href="#">H01L 51/50</a> ; semiconductor lasers per se <a href="#">H01S 5/00</a> ; electric lamps using a combination of different types of light generation <a href="#">H05B 35/00</a>)}</b>
	<b><u>WARNING</u></b>
	This group is not complete pending a reclassification; see also <a href="#">F21K 99/00</a> , <a href="#">H01L 33/00</a> , <a href="#">H01S 5/00</a> , <a href="#">H05B 35/00</a>
<a href="#">F21K 9/10</a>	. {specially adapted for retrofitting or substituting conventional lamps, e.g. for substitution of incandescent lamps or fluorescent tubes}
<a href="#">F21K 9/13</a>	.. {with only one fitting, e.g. a bayonet or screw based fitting}
<a href="#">F21K 9/135</a>	... {specially adapted for generating an omni-directional light distribution, e.g. with a glass bulb}
<a href="#">F21K 9/1355</a>	.... {Details of the base; Arrangements of components inside the base}
<a href="#">F21K 9/137</a>	... {specially adapted for generating a spot light distribution, e.g. to substitute reflector lamps}
<a href="#">F21K 9/1375</a>	.... {Details of the base; Arrangements of components in the base}
<a href="#">F21K 9/17</a>	.. {with two fittings, e.g. for substituting a fluorescent tube}
<a href="#">F21K 9/175</a>	... {Details of the base; Arrangements of components in the base}
<a href="#">F21K 9/30</a>	. {LED lamps or modules comprising attachment means not covered by groups <a href="#">F21K 9/10</a> to <a href="#">F21K 9/175</a> }
<a href="#">F21K 9/50</a>	. {Optical arrangements, i.e. for improving the color rendering index or the light extraction}
<a href="#">F21K 9/52</a>	.. {using a light guide}
<a href="#">F21K 9/54</a>	.. {using a mixing chamber, e.g. a housing with reflective walls}
<a href="#">F21K 9/56</a>	.. {using wavelength conversion means distinct or spaced from the light generating element, e.g. a remote phosphor layer}
<a href="#">F21K 9/58</a>	.. {specially adapted for changing the characteristics or the distribution of the light, e.g. by movement of parts}
<a href="#">F21K 9/90</a>	. {Manufacturing methods}
<b>F21K 99/00</b>	<b>Subject matter not provided for in other groups of this subclass</b>
<a href="#">F21K 2099/005</a>	. {Other light sources comprising light emitting diodes associated with conversion means}