

# CPC COOPERATIVE PATENT CLASSIFICATION

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

### LIGHTING; HEATING

#### F21 LIGHTING (electric aspects or elements, [see](#) section [H](#), e.g. electric light sources [H01J](#), [H01K](#), [H05B](#)) (NOTE omitted)

#### F21W INDEXING SCHEME ASSOCIATED WITH SUBCLASSES [F21K](#), [F21L](#), [F21S](#) and [F21V](#), RELATING TO USES OR APPLICATIONS OF LIGHTING DEVICES OR SYSTEMS

##### NOTE

This subclass constitutes an indexing scheme associated with subclasses [F21K](#), [F21L](#), [F21S](#) and [F21V](#), relating to uses or applications of lighting devices or systems.

#### 2102/00 Exterior vehicle lighting devices for illuminating purposes

##### WARNING

Group [F21W 2102/00](#) is impacted by reclassification into groups [F21W 2102/10](#), [F21W 2102/13](#), [F21W 2102/135](#), [F21W 2102/14](#), [F21W 2102/145](#), [F21W 2102/15](#), [F21W 2102/155](#), [F21W 2102/16](#), [F21W 2102/165](#), [F21W 2102/17](#), [F21W 2102/18](#), [F21W 2102/19](#), [F21W 2102/20](#), [F21W 2102/30](#), [F21W 2102/40](#) and [F21W 2105/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

#### 2102/10 . . . Arrangement or contour of the emitted light

##### WARNING

Group [F21W 2102/10](#) is incomplete pending reclassification of documents from group [F21W 2102/00](#).

Groups [F21W 2102/00](#) and [F21W 2102/10](#) should be considered in order to perform a complete search.

#### 2102/13 . . . for high-beam region or low-beam region

##### WARNING

Group [F21W 2102/13](#) is incomplete pending reclassification of documents from group [F21W 2102/00](#).

Groups [F21W 2102/00](#) and [F21W 2102/13](#) should be considered in order to perform a complete search.

#### 2102/135 . . . the light having cut-off lines, i.e. clear borderlines between emitted regions and dark regions

##### WARNING

Group [F21W 2102/135](#) is incomplete pending reclassification of documents from group [F21W 2102/00](#).

Groups [F21W 2102/00](#) and [F21W 2102/135](#) should be considered in order to perform a complete search.

#### 2102/14 . . . . having vertical cut-off lines; specially adapted for adaptive high beams, i.e. wherein the beam is broader but avoids glaring other road users

##### WARNING

Group [F21W 2102/14](#) is incomplete pending reclassification of documents from group [F21W 2102/00](#).

Groups [F21W 2102/00](#) and [F21W 2102/14](#) should be considered in order to perform a complete search.

#### 2102/145 . . . . . wherein the light is emitted between two parallel vertical cutoff lines, e.g. selectively emitted rectangular-shaped high beam

##### WARNING

Group [F21W 2102/145](#) is incomplete pending reclassification of documents from group [F21W 2102/00](#).

Groups [F21W 2102/00](#) and [F21W 2102/145](#) should be considered in order to perform a complete search.

2102/15 . . . . wherein the light is emitted under L-shaped cut-off lines, i.e. vertical and horizontal cutoff lines

**WARNING**

Group [F21W 2102/15](#) is incomplete pending reclassification of documents from group [F21W 2102/00](#).

Groups [F21W 2102/00](#) and [F21W 2102/15](#) should be considered in order to perform a complete search.

2102/155 . . . . having inclined and horizontal cutoff lines

**WARNING**

Group [F21W 2102/155](#) is incomplete pending reclassification of documents from group [F21W 2102/00](#).

Groups [F21W 2102/00](#) and [F21W 2102/155](#) should be considered in order to perform a complete search.

2102/16 . . . . having blurred cut-off lines

**WARNING**

Group [F21W 2102/16](#) is incomplete pending reclassification of documents from group [F21W 2102/00](#).

Groups [F21W 2102/00](#) and [F21W 2102/16](#) should be considered in order to perform a complete search.

2102/165 . . . the borderlines between emitted regions and dark regions other than cut-off lines being variable

**WARNING**

Group [F21W 2102/165](#) is incomplete pending reclassification of documents from group [F21W 2102/00](#).

Groups [F21W 2102/00](#) and [F21W 2102/165](#) should be considered in order to perform a complete search.

2102/17 . . for regions other than high beam or low beam

**WARNING**

Group [F21W 2102/17](#) is incomplete pending reclassification of documents from group [F21W 2102/00](#).

Groups [F21W 2102/00](#) and [F21W 2102/17](#) should be considered in order to perform a complete search.

2102/18 . . . for overhead signs

**WARNING**

Group [F21W 2102/18](#) is incomplete pending reclassification of documents from group [F21W 2102/00](#).

Groups [F21W 2102/00](#) and [F21W 2102/18](#) should be considered in order to perform a complete search.

2102/19 . . . for curves

**WARNING**

Group [F21W 2102/19](#) is incomplete pending reclassification of documents from group [F21W 2102/00](#).

Groups [F21W 2102/00](#) and [F21W 2102/19](#) should be considered in order to perform a complete search.

2102/20 . Illuminance distribution within the emitted light

**WARNING**

Group [F21W 2102/20](#) is incomplete pending reclassification of documents from group [F21W 2102/00](#).

Groups [F21W 2102/00](#) and [F21W 2102/20](#) should be considered in order to perform a complete search.

2102/30 . Fog lights

**WARNING**

Group [F21W 2102/30](#) is incomplete pending reclassification of documents from group [F21W 2102/00](#).

Groups [F21W 2102/00](#) and [F21W 2102/30](#) should be considered in order to perform a complete search.

2102/40 . the light being emitted to facilitate access to the vehicle

**WARNING**

Group [F21W 2102/40](#) is incomplete pending reclassification of documents from group [F21W 2102/00](#).

Groups [F21W 2102/00](#) and [F21W 2102/40](#) should be considered in order to perform a complete search.

2103/00 Exterior vehicle lighting devices for signalling purposes

**WARNING**

Group [F21W 2103/00](#) is impacted by reclassification into groups [F21W 2103/10](#), [F21W 2103/15](#), [F21W 2103/30](#), [F21W 2103/35](#), [F21W 2103/40](#), [F21W 2103/45](#), [F21W 2103/50](#), [F21W 2103/55](#), [F21W 2103/60](#) and [F21W 2105/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

2103/10 . Position lights

**WARNING**

Group [F21W 2103/10](#) is incomplete pending reclassification of documents from group [F21W 2103/00](#).

Groups [F21W 2103/00](#) and [F21W 2103/10](#) should be considered in order to perform a complete search.

- 2103/15 . Side marker lights

**WARNING**

Group [F21W 2103/15](#) is incomplete pending reclassification of documents from group [F21W 2103/00](#).

Groups [F21W 2103/00](#) and [F21W 2103/15](#) should be considered in order to perform a complete search.

- 2103/20 . Direction indicator lights

**WARNING**

Group [F21W 2103/20](#) is impacted by reclassification into group [F21W 2103/25](#).

Groups [F21W 2103/20](#) and [F21W 2103/25](#) should be considered in order to perform a complete search.

- 2103/25 . . for rear-view mirrors

**WARNING**

Group [F21W 2103/25](#) is incomplete pending reclassification of documents from group [F21W 2103/20](#).

Groups [F21W 2103/20](#) and [F21W 2103/25](#) should be considered in order to perform a complete search.

- 2103/30 . Hazard lights

**WARNING**

Group [F21W 2103/30](#) is incomplete pending reclassification of documents from group [F21W 2103/00](#).

Groups [F21W 2103/00](#) and [F21W 2103/30](#) should be considered in order to perform a complete search.

- 2103/35 . Brake lights

**WARNING**

Group [F21W 2103/35](#) is incomplete pending reclassification of documents from group [F21W 2103/00](#).

Groups [F21W 2103/00](#) and [F21W 2103/35](#) should be considered in order to perform a complete search.

- 2103/40 . Rear fog lights

**WARNING**

Group [F21W 2103/40](#) is incomplete pending reclassification of documents from group [F21W 2103/00](#).

Groups [F21W 2103/00](#) and [F21W 2103/40](#) should be considered in order to perform a complete search.

- 2103/45 . Reversing lights

**WARNING**

Group [F21W 2103/45](#) is incomplete pending reclassification of documents from group [F21W 2103/00](#).

Groups [F21W 2103/00](#) and [F21W 2103/45](#) should be considered in order to perform a complete search.

- 2103/50 . Registration plate lights

**WARNING**

Group [F21W 2103/50](#) is incomplete pending reclassification of documents from group [F21W 2103/00](#).

Groups [F21W 2103/00](#) and [F21W 2103/50](#) should be considered in order to perform a complete search.

- 2103/55 . Daytime running lights [DRL]

**WARNING**

Group [F21W 2103/55](#) is incomplete pending reclassification of documents from group [F21W 2103/00](#).

Groups [F21W 2103/00](#) and [F21W 2103/55](#) should be considered in order to perform a complete search.

- 2103/60 . Projection of signs from lighting devices, e.g. symbols or information being projected onto the road

**WARNING**

Group [F21W 2103/60](#) is incomplete pending reclassification of documents from group [F21W 2103/00](#).

Groups [F21W 2103/00](#) and [F21W 2103/60](#) should be considered in order to perform a complete search.

- 2104/00 **Exterior vehicle lighting devices for decorative purposes**

**WARNING**

Group [F21W 2104/00](#) is incomplete pending reclassification of documents from groups [F21S 43/00](#) and [F21S 45/00](#).

Groups [F21S 43/00](#), [F21S 45/00](#) and [F21W 2104/00](#) should be considered in order to perform a complete search.

- 2105/00 **Combinations of lighting devices covered by codes [F21W 2102/00](#) – [F21W 2104/00](#)**

**WARNING**

Group [F21W 2105/00](#) is incomplete pending reclassification of documents from groups [F21W 2102/00](#) and [F21W 2103/00](#).

Groups [F21W 2102/00](#), [F21W 2103/00](#) and [F21W 2105/00](#) should be considered in order to perform a complete search.

- 2106/00 **Interior vehicle lighting devices**

- 2107/00 **Use or application of lighting devices on or in particular types of vehicles**

## F21W

- 2107/10 . for land vehicles
- 2107/13 . . for cycles
- 2107/17 . . . for motorcycles
- 2107/20 . for water vehicles
- 2107/30 . for aircraft
- 2111/00 Use or application of lighting devices or systems for signalling, marking or indicating, not provided for in codes [F21W 2102/00](#) – [F21W 2107/00](#)**
  - 2111/02 . for roads, paths or the like
  - 2111/023 . . for pedestrian walkways
  - 2111/027 . . for indicating kerbs, steps or stairs
  - 2111/04 . for waterways
  - 2111/043 . . for lighthouses or lightships
  - 2111/047 . . for light-buoys
  - 2111/06 . for aircraft runways or the like
  - 2111/08 . for handles or handrails
  - 2111/10 . for personal use, e.g. hand-held
- 2121/00 Use or application of lighting devices or systems for decorative purposes, not provided for in codes [F21W 2102/00](#) – [F21W 2107/00](#)**
  - 2121/002 . {Candle holders for birthday or anniversary cakes}
  - 2121/004 . {mounted on the exterior of houses or other buildings to illuminate parts thereof}
  - 2121/006 . {for illumination or simulation of snowy or iced items, e.g. icicle}
  - 2121/008 . {for simulation of a starry sky or firmament}
  - 2121/02 . for fountains
  - 2121/04 . for Christmas trees
  - 2121/06 . for personal wear
- 2131/00 Use or application of lighting devices or systems not provided for in codes [F21W 2102/00](#)-[F21W 2121/00](#)**
  - 2131/10 . Outdoor lighting
  - 2131/1005 . . {of working places, building sites or the like}
  - 2131/101 . . of tunnels or the like, e.g. under bridges
  - 2131/103 . . of streets or roads
  - 2131/105 . . of arenas or the like
  - 2131/107 . . of the exterior of buildings
  - 2131/109 . . of gardens
  - 2131/20 . Lighting for medical use
  - 2131/202 . . for dentistry
  - 2131/205 . . for operating theatres
  - 2131/208 . . for hospital wards
  - 2131/30 . Lighting for domestic or personal use
  - 2131/3005 . . {for books, i.e. reading lights attachable to books}
  - 2131/301 . . for furniture
  - 2131/302 . . for mirrors
  - 2131/304 . . for pictures
  - 2131/305 . . for refrigerators
  - 2131/307 . . for ovens
  - 2131/308 . . for aquaria
  - 2131/40 . Lighting for industrial, commercial, recreational or military use
  - 2131/401 . . for swimming pools
  - 2131/402 . . for working places
  - 2131/403 . . for machines
  - 2131/4035 . . . for sewing machines
  - 2131/405 . . for shop-windows or displays
  - 2131/406 . . for theatres, stages or film studios
  - 2131/407 . . for indoor arenas
  - 2131/409 . . for furnaces or kilns
  - 2131/411 . . for inspection of the interior of hollow structures, e.g. vessels, tubes