

Title (en)

Signalling unit with LED redundancy

Title (de)

Signalisierungseinheit mit LED-Redundanz

Title (fr)

Unité de signalisation dotée d'une redondance DEL

Publication

**EP 2119614 B1 20110824 (DE)**

Application

**EP 09156479 A 20090327**

Priority

- EP 08103982 A 20080515
- EP 09156479 A 20090327

Abstract (en)

[origin: EP2119614A2] The signaling unit has a light source including a glow filament and a control circuit. A switching unit detects failure of a filament lamp current in the control circuit, using a current relay in the control circuit or alternatively by an electronic circuit. A quasi point LED unit is utilized as a backup light source having a directional characteristic corresponding to the former light source and a preset signal color. The backup source or an outlet for light beams from the backup source is arranged in a main axis of the former light source.

IPC 8 full level

**B61L 5/18** (2006.01); **F21S 8/00** (2006.01); **G08G 1/095** (2006.01)

CPC (source: EP)

**B61L 5/1881** (2013.01); **H05B 39/105** (2013.01); **H05B 47/29** (2020.01); **F21V 23/04** (2013.01); **F21W 2111/02** (2013.01)

Cited by

DE102018215121A1; CN110380915A; CN113129375A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 2119614 A2 20091118; EP 2119614 A3 20100203; EP 2119614 B1 20110824**; AT E521517 T1 20110915

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