

Title (en)
Light signal

Title (de)
Lichtsignal

Title (fr)
Signal lumineux

Publication
EP 2113439 A3 20140723 (DE)

Application
EP 09158003 A 20090416

Priority
DE 102008022346 A 20080430

Abstract (en)
[origin: EP2113439A2] The traffic signal has an optical system (3) for radiation of light in a solid angle, particularly for displaying signal aspects during rail-bounded traffic routes. A filament arrangement is replaced by a light emitting diode arrangement with filament specific characteristics, particularly geometrical dimensions, luminous flux amount and luminous flux distribution. The light emitting diode arrangement has a light emitting diode (5) and an optical element (6).

IPC 8 full level
B61L 5/18 (2006.01)

CPC (source: EP US)
B61L 5/1854 (2013.01 - EP US); **B61L 2207/02** (2013.01 - EP); **F21W 2111/02** (2013.01 - EP); **F21Y 2115/10** (2016.07 - EP US)

Citation (search report)

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- [XAY] US 2003185005 A1 20031002 - SOMMERS MATHEW [US], et al
- [XAY] DE 202004000999 U1 20040715 - GROEHL BERNHARD [DE]
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- [E] EP 2163455 A2 20100317 - SIEMENS AG [DE]

Cited by
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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

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2113439 A2 20091104; EP 2113439 A3 20140723; DE 102008022346 A1 20091105

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EP 09158003 A 20090416; DE 102008022346 A 20080430