

Title (en)
LIGHT SIGNAL

Title (de)
LICHTSIGNAL

Title (fr)
SIGNAL LUMINEUX

Publication
EP 2473776 A1 20120711 (DE)

Application
EP 10742122 A 20100727

Priority
• DE 102009039704 A 20090831
• EP 2010060881 W 20100727

Abstract (en)
[origin: WO2011023479A1] The invention relates to a light signal comprising a semiconductor light source and an optical system (6) for representing signal aspects, especially on rail-bound traffic routes. In order to obtain the advantageous properties of filament light signals, especially with respect to the beam spread in horizontal direction (H), the semiconductor light source is designed as a point light source, especially as an individual LED - light-emitting diode - or as an individual HLED - high current LED - (3) and the optical system (6) is an axially symmetric cylindrical lens and a rotationally symmetric convex lens, especially a Fresnel lens.

IPC 8 full level
F21V 5/04 (2006.01); **B61L 5/18** (2006.01); **G02B 3/06** (2006.01); **F21Y 101/02** (2006.01)

CPC (source: EP US)
B61L 5/1809 (2013.01 - EP US); **F21V 5/04** (2013.01 - EP US); **B61L 2207/02** (2013.01 - EP US); **F21Y 2115/10** (2016.07 - EP US); **G02B 3/06** (2013.01 - EP US); **G02B 3/08** (2013.01 - EP US)

Citation (search report)
See references of WO 2011023479A1

Designated contracting state (EPC)
AL 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 SM TR

DOCDB simple family (publication)
WO 2011023479 A1 20110303; CN 102483212 A 20120530; DE 102009039704 A1 20110317; EP 2473776 A1 20120711; RU 2012112465 A 20131010; US 2012162997 A1 20120628

DOCDB simple family (application)
EP 2010060881 W 20100727; CN 201080038682 A 20100727; DE 102009039704 A 20090831; EP 10742122 A 20100727; RU 2012112465 A 20100727; US 201013393282 A 20100727