

Title (en)
ILLUMINATION DEVICE FOR A VEHICLE

Title (de)
BELEUCHTUNGSVORRICHTUNG FÜR EIN FAHRZEUG

Title (fr)
DISPOSITIF D'ÉCLAIRAGE POUR UN VÉHICULE

Publication
EP 2063170 B1 20200226 (DE)

Application
EP 08013643 A 20080730

Priority
DE 102007055480 A 20071121

Abstract (en)
[origin: EP2063170A2] The illumination device has a light source (6) and an optical imaging element (2) arranged in a beam path of the light source. A surface element (8) is arranged between the light source and the imaging element. The surface element is formed for illumination of the focal plane of the imaging element, and is particularly arranged in the focal plane of the imaging element. The surface element is formed for converting wavelengths of light emitted from the light source. The surface element is made from a material comprising a phosphorus composition.

IPC 8 full level
F21S 41/176 (2018.01); **F21K 99/00** (2010.01); **F21S 41/675** (2018.01); **F21V 9/40** (2018.01)

CPC (source: EP US)
F21S 41/16 (2017.12 - EP US); **F21S 41/176** (2017.12 - EP US); **F21S 41/663** (2017.12 - EP); **F21S 41/675** (2017.12 - EP US)

Citation (examination)
• JP 2003295319 A 20031015 - NITTO OPTICAL
• DE 10344173 A1 20050428 - HELLA KGAA HUECK & CO [DE], et al
• DE 10315133 A1 20041014 - HELLA KG HUECK & CO [DE]
• US 2006221022 A1 20061005 - HAJJAR ROGER [US]
• US 6132072 A 20001017 - TURNBULL ROBERT R [US], et al
• EP 0507316 A2 19921007 - CANON KK [JP]
• EP 1722159 A1 20061115 - HITACHI LTD [JP]
• GB 2075653 A 19811118 - WAGNER ELECTRIC CORP
• ANONYMOUS: "Liquid-crystal display - Wikipedia", 18 November 2007 (2007-11-18), XP055454390, Retrieved from the Internet <URL:https://en.wikipedia.org/w/index.php?title=Liquid-crystal_display&oldid=172239994> [retrieved on 20180226]
• ANONYMOUS: "Digital micromirror device - Wikipedia", 29 July 2007 (2007-07-29), XP055454392, Retrieved from the Internet <URL:https://en.wikipedia.org/w/index.php?title=Digital_micromirror_device&oldid=147942854> [retrieved on 20180226]
• ANONYMOUS: "Cathode ray tube - Wikipedia", 14 November 2007 (2007-11-14), XP055454393, Retrieved from the Internet <URL:https://en.wikipedia.org/w/index.php?title=Cathode_ray_tube&oldid=171543802> [retrieved on 20180226]

Cited by
WO2016070214A1; DE102016200590A1; CN107076386A; CN104344308A; JP2015038884A; DE102010062463A1; JP2012509562A; FR3004785A1; EP3483498A1; WO2016062872A1; WO2014121315A1; EP2829790A2; EP2985524A1; EP2833054A2; CN102939500A; JP2013526759A; EP2725293A1; JP2015043346A; CN104848134A; CN106461181A; WO2015018729A1; WO2010020930A1; WO2010058323A1; EP2801752A1; US11079086B2; EP3009735A1; US9989236B2; DE102016000253A1; DE102016000253B4; US10408403B2; WO2014121314A1; WO2016061599A1; US10507759B2; US9347635B2; US9702519B2; US9945530B2; WO2011141377A1; WO2015169665A1; JP2015038885A; EP2767751A1; US8256941B2; EP3073181A1; EP2837876A1; US9512972B2; US9574733B2; US10550320B2; EP2551154B1; EP2690352A1; WO2015196223A1; US9677736B2; DE102018101259A1; US10344931B2; US10480740B2; DE102018101259B4; EP2954256B1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 2063170 A2 20090527; **EP 2063170 A3 20100526**; **EP 2063170 B1 20200226**; DE 102007055480 B3 20090813; EP 2918898 A1 20150916

DOCDB simple family (application)
EP 08013643 A 20080730; DE 102007055480 A 20071121; EP 15000962 A 20080730