

Title (en)
VEHICLE HEADLAMP

Title (de)
KFZ-SCHEINWERFER

Title (fr)
PHARE DE VÉHICULE

Publication
EP 2500633 A2 20120919 (EN)

Application
EP 12159434 A 20120314

Priority
JP 2011056861 A 20110315

Abstract (en)
A lamp unit (210) includes: a projection lens (20) that radiates light from a light source (14); and a shade (110,120,130) interposed between the light source and the projection lens and for forming a light distribution pattern having a first cutoff line extending horizontally from a neighborhood of a center of the light distribution pattern and a second cutoff line extending upwardly from the neighborhood of the center. The shade includes a gradation forming portion for forming a gradation in the second cutoff line in the second cutoff line forming edge portion. The gradation is for making variations gradual in illumination in the portion of the second cutoff line than that in an area of the neighborhood of the center.

IPC 8 full level
F21V 14/08 (2006.01); **F21S 8/10** (2006.01); **F21S 8/12** (2006.01); **F21V 11/16** (2006.01)

CPC (source: EP US)
F21S 41/17 (2017.12 - EP US); **F21S 41/43** (2017.12 - EP); **F21S 41/686** (2017.12 - EP); **F21S 41/689** (2017.12 - EP US);
F21W 2102/15 (2017.12 - EP); **F21W 2102/16** (2017.12 - EP)

Citation (applicant)
• JP 2009227088 A 20091008 - KOITO MFG CO LTD
• JP 2010000957 A 20100107 - KOITO MFG CO LTD
• JP 2010257909 A 20101111 - KOITO MFG CO LTD

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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2500633 A2 20120919; EP 2500633 A3 20150506; EP 2500633 B1 20200610; JP 2012195101 A 20121011; JP 5645724 B2 20141224

DOCDB simple family (application)
EP 12159434 A 20120314; JP 2011056861 A 20110315