

Title (en)  
Projector type headlight

Title (de)  
Projektorartiger Schweinwerfer

Title (fr)  
Phare de type projecteur

Publication  
**EP 2320130 B1 20120620 (EN)**

Application  
**EP 10014339 A 20101105**

Priority  
JP 2009253627 A 20091105

Abstract (en)  
[origin: EP2320130A1] A projector type headlight includes: a reflector; a light source valve arranged in a vicinity of a rear focal point of the reflector; a shade arranged so that an upper end portion of the shade is placed in a vicinity of a front focal point of the reflector; a convex lens arranged in front of the reflector, the light source valve, and the shade; and a groove formed in a front surface of an upper portion of the shade.

IPC 8 full level  
**F21V 11/16** (2006.01); **F21S 8/12** (2006.01); **F21W 101/10** (2006.01)

CPC (source: EP US)  
**F21S 41/295** (2017.12 - EP); **F21S 41/365** (2017.12 - EP US); **F21S 41/43** (2017.12 - EP US); **F21S 41/47** (2017.12 - EP); **F21S 41/162** (2017.12 - EP); **F21S 41/255** (2017.12 - EP); **F21S 41/321** (2017.12 - EP)

Cited by  
DE102011003814A1; US10253939B2

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

DOCDB simple family (publication)  
**EP 2320130 A1 20110511; EP 2320130 B1 20120620**; JP 2011100589 A 20110519; JP 4961005 B2 20120627

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**EP 10014339 A 20101105**; JP 2009253627 A 20091105