

Title (en)  
OPTICAL REFLECTION SYSTEM FOR VEHICLE LAMP LIGHTING DEVICE, AND VEHICLE LAMP LIGHTING DEVICE

Title (de)  
OPTISCHES REFLEXIONSSYSTEM FÜR FAHRZEUGLAMPENBELEUCHTVORRICHTUNG UND FAHRZEUGLAMPENBELEUCHTVORRICHTUNG

Title (fr)  
SYSTÈME DE RÉFLEXION OPTIQUE POUR DISPOSITIF D'ÉCLAIRAGE DE LAMPE DE VÉHICULE, ET DISPOSITIF D'ÉCLAIRAGE DE LAMPE DE VÉHICULE

Publication  
**EP 4206524 A4 20240103 (EN)**

Application  
**EP 21957181 A 20210918**

Priority  
CN 2021119443 W 20210918

Abstract (en)  
[origin: EP4206524A1] Provided are an optical reflecting system for a vehicle lamp illumination device and a vehicle lamp illumination device, which comprises a primary optical system having a light source (80), and the optical reflecting system is configured to receive light beams emitted from the light source (80) of the primary optical system. The optical reflecting system comprises a first reflector having a first reflecting surface (10) and a second reflector having a second reflecting surface (20), wherein the first reflecting surface (10) is configured to collimate light in a first direction, and the second reflecting surface (20) is configured to collimate light in a second direction orthogonal to the first direction. The first reflecting surface (10) and the second reflecting surface (20) have a curved shape represented by a contour line, and the curved shape is a curved surface formed by stretching the contour line along a direction normal to a plane where the contour line is located. The optical reflecting system is configured such that light beams emitted from the primary optical system having the light source (80), after being reflected by the first reflector and the second reflector, are emitted in a form of approximately parallel light beams, so as to form an illumination light pattern of the vehicle lamp illumination device.

IPC 8 full level  
**F21V 7/00** (2006.01); **F21S 8/00** (2006.01)

CPC (source: EP)  
**F21S 41/147** (2018.01); **F21S 41/321** (2018.01); **F21S 41/365** (2018.01)

Citation (search report)

- [A] DE 102011004569 A1 20120823 - AUTOMOTIVE LIGHTING REUTLINGEN [DE]
- [A] CN 212565607 U 20210219 - HASCO VISION TECH SHANGHAI CO LTD
- [A] EP 3657066 A1 20200527 - ZKW GROUP GMBH [AT], et al
- [A] EP 2416061 A2 20120208 - VALEO VISION [FR]
- [A] US 2018224081 A1 20180809 - HABERKORN ROUVEN [DE], et al
- See also references of WO 2023039904A1

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

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BA ME

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**EP 4206524 A1 20230705; EP 4206524 A4 20240103; CN 117730230 A 20240319; WO 2023039904 A1 20230323**

DOCDB simple family (application)  
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