

Title (en)

VEHICLE LAMP AND VEHICLE IRRADIATION SYSTEM

Title (de)

FAHRZEUGLAMPE UND FAHRZEUGBESTRAHLUNGSSYSTEM

Title (fr)

PHARE DE VÉHICULE ET SYSTÈME DE RAYONNEMENT DE VÉHICULE

Publication

EP 3181996 A1 20170621 (EN)

Application

EP 16204042 A 20161214

Priority

JP 2015245494 A 20151216

Abstract (en)

A vehicle lamp (1) includes a light source (10) configured to radiate white light, a light concentrator (20) configured to concentrate light radiated from the light source (10), a reflection pattern formation device (30) configured to have a plurality of optical elements arrayed in a matrix shape and form a reflection pattern by reflecting light concentrated by the light concentrator (20) according to a collective reflection plane (33) formed by a plurality of optical elements, and a projection optical system (50) configured to radiate the reflection pattern in a forward direction, wherein the collective reflection plane (33) is positioned inside a light concentration spot (SP) of the light concentrator (20) in the collective reflection plane (33).

IPC 8 full level

F21S 8/12 (2006.01)

CPC (source: EP US)

F21S 41/16 (2017.12 - EP US); **F21S 41/675** (2017.12 - EP US)

Citation (applicant)

JP H09104288 A 19970422 - BOSCH GMBH ROBERT

Citation (search report)

- [X] US 2015160454 A1 20150611 - BHAKTA VIKRANT R [US]
- [X] US 2015285458 A1 20151008 - DASSANAYAKE MAHENDRA SOMASARA [US], et al
- [X] EP 2772682 A2 20140903 - KOITO MFG CO LTD [JP]
- [X] JP 2004136838 A 20040513 - TOYOTA IND CORP
- [X] JP 2012014972 A 20120119 - SEIKO EPSON CORP

Cited by

CN111376821A; CN112013350A; WO2021218601A1; US10914442B2

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 3181996 A1 20170621; JP 2017111977 A 20170622

DOCDB simple family (application)

EP 16204042 A 20161214; JP 2015245494 A 20151216