

Title (en)
ILLUMINATION DEVICE

Title (de)
BELEUCHTUNGSVORRICHTUNG

Title (fr)
DISPOSITIF D'ÉCLAIRAGE

Publication
EP 3680546 A4 20200805 (EN)

Application
EP 18850071 A 20180822

Priority
• JP 2017169881 A 20170904
• JP 2018030929 W 20180822

Abstract (en)
[origin: EP3680546A1] It is an object of the present disclosure to provide an illumination device which enables the degree of design freedom of a housing to be increased. An illumination device includes: a housing (2); a light source (80) provided in the housing (2); and an optical member (9) having an incidence plane (911) via which light output from the light source (80) enters the optical member (9). The housing (2) or the optical member (9) includes an exit plane (94) from which light passing through the optical member (9) goes out of the housing (2). The exit plane (94) has an area (S_{2}) smaller than an area (S_{1}) of the incidence surface (911).

IPC 8 full level
F21S 9/02 (2006.01); **F21V 5/00** (2018.01); **F21V 5/04** (2006.01); **F21V 8/00** (2006.01); **F21V 23/00** (2015.01); **F21V 23/04** (2006.01); **F21V 33/00** (2006.01); **G08B 17/00** (2006.01); **F21Y 115/10** (2016.01)

CPC (source: EP)
F21S 9/02 (2013.01); **F21V 5/04** (2013.01); **F21V 23/04** (2013.01); **F21V 33/0076** (2013.01); **G08B 17/00** (2013.01); **F21Y 2115/10** (2016.08)

Citation (search report)
• [X] JP 2009211327 A 20090917 - FENWALL CONTROLS JAPAN LTD, et al
• [X] JP H10111988 A 19980428 - NITTAN CO LTD
• [X] EP 2109085 A2 20091014 - NOHMI BOSAI LTD [JP]
• [A] US 9689554 B1 20170627 - HOUSEHOLDER JOHN R [US], et al
• [A] JP 2007011684 A 20070118 - NITTAN CO LTD
• [A] JP 2003036488 A 20030207 - NOHMI BOSAI LTD
• See also references of WO 2019044607A1

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 3680546 A1 20200715; **EP 3680546 A4 20200805**; JP 2019046693 A 20190322; JP 2022066283 A 20220428; JP 2022066284 A 20220428; JP 7122618 B2 20220822; JP 7466114 B2 20240412; WO 2019044607 A1 20190307

DOCDB simple family (application)
EP 18850071 A 20180822; JP 2017169881 A 20170904; JP 2018030929 W 20180822; JP 2022028271 A 20220225; JP 2022028272 A 20220225