

Title (en)
ILLUMINATION DEVICE OF A MOTOR VEHICLE HEADLAMP

Title (de)
BELEUCHTUNGSVORRICHTUNG EINES KRAFTFAHRZEUGSCHEINWERFERS

Title (fr)
DISPOSITIF D'ÉCLAIRAGE D'UN PROJECTEUR DE VÉHICULE AUTOMOBILE

Publication
EP 3990824 A1 20220504 (DE)

Application
EP 20732173 A 20200608

Priority

- EP 19182830 A 20190627
- EP 2020065793 W 20200608

Abstract (en)
[origin: WO2020259993A1] The invention relates to an illumination device of a motor vehicle headlamp, comprising a lens system (1, 10) and at least one light source (2), wherein an image (LI) can be generated by the at least one light source (2), wherein the image (LI) that can be generated by the light source (2) can be projected in front of the illumination device in the form of a light distribution by means of the lens system (1, 10), wherein the lens system (1, 10) has at least one projection lens (3, 30, 31) and a projection lens holder (4, 40), wherein at least one recess (5, 50, 51) is formed in the projection lens holder (4, 40), wherein the at least one recess (5, 50, 51) corresponds with the at least one projection lens (3, 30, 31) and the at least one projection lens (3, 30, 31) is accommodated in the at least one recess (5, 50, 51), wherein a reference point system (6, 60, 61) is defined in the at least one recess (5, 50, 51) in order to determine a position of the projection lens (3, 30, 31) accommodated in said recess (5, 50, 51) in such a way that the image (LI) lies substantially in a focal plane of the lens system (1, 10), wherein reference points (6-1 to 6-6, 60-1 to 60-6, 61-1 to 61-6) of the reference point system (6, 60, 61) are arranged according to the 3-2-1 rule, wherein the at least one recess (5, 50, 51) is closed by means of a closing element (7, 70) in such a way that the at least one projection lens (3, 30, 31) is fixed and retained in the position in the at least one recess (5, 50, 51) determined by the reference point system (6, 60, 61).

IPC 8 full level
F21S 41/29 (2018.01); **F21S 41/143** (2018.01); **F21S 41/16** (2018.01); **F21S 41/265** (2018.01); **F21S 41/47** (2018.01); **F21S 41/675** (2018.01)

CPC (source: EP KR US)
F21S 41/141 (2018.01 - US); **F21S 41/143** (2018.01 - EP KR); **F21S 41/16** (2018.01 - EP KR US); **F21S 41/265** (2018.01 - EP KR); **F21S 41/275** (2018.01 - US); **F21S 41/295** (2018.01 - EP KR US); **F21S 41/47** (2018.01 - EP KR US); **F21S 41/675** (2018.01 - EP KR); **F21Y 2115/10** (2016.08 - US)

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 3757449 A1 20201230; CN 114072613 A 20220218; CN 114072613 B 20240524; EP 3990824 A1 20220504; JP 2022538134 A 20220831; JP 7342154 B2 20230911; KR 20220009455 A 20220124; US 11788703 B2 20231017; US 2022325863 A1 20221013; WO 2020259993 A1 20201230

DOCDB simple family (application)
EP 19182830 A 20190627; CN 202080046822 A 20200608; EP 2020065793 W 20200608; EP 20732173 A 20200608; JP 2021576907 A 20200608; KR 20217041487 A 20200608; US 202017616321 A 20200608