

Title (en)
SINGLE-PIECE OPTICAL PART MADE OF TRANSPARENT OR TRANSLUCENT MATERIAL WITH INACTIVE SURFACE WITH DIFFUSING PORTION

Title (de)
OPTISCHES MONOBLOCKTEIL AUS DURCHSICHTIGEM ODER LICHTDURCHLÄSSIGEM MATERIAL MIT INAKTIVER OBERFLÄCHE, DIE EINEN LICHTSTREUENDEN ABSCHNITT UMFASST

Title (fr)
PIECE OPTIQUE MONOBLOC EN MATERIAU TRANSPARENT OU TRANSLUCIDE A SURFACE INACTIVE AVEC PORTION DIFFUSANTE

Publication
EP 3628915 B1 20220629 (FR)

Application
EP 19195640 A 20190905

Priority
FR 1858944 A 20180928

Abstract (en)
[origin: US2020103087A1] A single-piece optical part made of transparent or translucent material, comprising a plurality of active surfaces arranged to form a beam, including an entrance dioptric interface and an exit dioptric interface, inactive surfaces joining the active surfaces, at least one of the inactive surfaces comprising a scattering segment so as to scatter the rays that reach it.

IPC 8 full level
F21S 41/275 (2018.01); **F21S 41/147** (2018.01); **F21S 41/148** (2018.01); **F21S 41/151** (2018.01); **F21S 41/27** (2018.01)

CPC (source: CN EP US)
F21S 41/141 (2018.01 - CN); **F21S 41/148** (2018.01 - EP); **F21S 41/151** (2018.01 - EP); **F21S 41/20** (2018.01 - CN); **F21S 41/27** (2018.01 - EP); **F21S 41/275** (2018.01 - EP); **F21S 41/285** (2018.01 - US); **F21S 41/32** (2018.01 - CN); **F21S 41/322** (2018.01 - US); **F21S 41/365** (2018.01 - US); **F21V 5/00** (2013.01 - CN); **F21V 5/008** (2013.01 - US); **F21V 7/04** (2013.01 - CN); **F21S 41/275** (2018.01 - US); **F21Y 2115/10** (2016.08 - CN)

Citation (examination)

- EP 3453951 A1 20190313 - TYC BROTHER IND CO LTD [TW]
- DE 202018002427 U1 20180525 - HYUNDAI MOBIS CO LTD [KR]
- EP 2818792 A2 20141231 - STANLEY ELECTRIC CO LTD [JP]

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 3628915 A1 20200401; **EP 3628915 B1 20220629**; CN 110966569 A 20200407; CN 110966569 B 20240220; FR 3086735 A1 20200403; FR 3086735 B1 20210625; US 11255504 B2 20220222; US 2020103087 A1 20200402

DOCDB simple family (application)
EP 19195640 A 20190905; CN 201910932126 A 20190927; FR 1858944 A 20180928; US 201916575669 A 20190919