

Title (en)
OPTICAL ANGULAR ENCODER

Title (de)
OPTISCHER WINKELKODIERER

Title (fr)
FILTRE ANGULAIRE OPTIQUE

Publication
EP 4260104 A1 20231018 (FR)

Application
EP 21815506 A 20211122

Priority
• FR 2013151 A 20201214
• EP 2021082404 W 20211122

Abstract (en)
[origin: WO2022128337A1] The present disclosure relates to an angular filter (23) for an image acquisition device (19), comprising a stack including: a layer (41) comprising media with different refractive indices and transparent to said radiation, the layer (41) allowing only those rays of said radiation having angles of incidence lower than a first maximum angle of incidence to pass; and an matrix (31) of apertures (33) bounded by walls (35) opaque to visible and/or infrared radiation and an array (27) of microlenses (29), the assembly formed by the matrix of apertures and the array of microlenses allowing only those rays of said radiation having angles of incidence lower than a second maximum angle of incidence, lower than the first maximum angle of incidence, to pass.

IPC 8 full level
G02B 5/20 (2006.01)

CPC (source: EP US)
G02B 3/0006 (2013.01 - US); **G02B 5/201** (2013.01 - EP US); **G02B 5/208** (2013.01 - US); **G02B 5/281** (2013.01 - US);
G02B 5/286 (2013.01 - US); **G02B 3/0006** (2013.01 - EP); **G02B 5/286** (2013.01 - EP); **G02B 2207/123** (2013.01 - EP)

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
FR 3117615 A1 20220617; **FR 3117615 B1 20230804**; CN 116685881 A 20230901; EP 4260104 A1 20231018; JP 2024500393 A 20240109;
US 2024045125 A1 20240208; WO 2022128337 A1 20220623

DOCDB simple family (application)
FR 2013151 A 20201214; CN 202180084152 A 20211122; EP 2021082404 W 20211122; EP 21815506 A 20211122;
JP 2023536173 A 20211122; US 202118266547 A 20211122