

Title (en)
BIMODE IMAGE ACQUISITION DEVICE WITH PHOTOCATHODE

Title (de)
BIMODALE BILDERFASSUNGSVORRICHTUNG MIT PHOTOKATHODE

Title (fr)
DISPOSITIF D'ACQUISITION D'IMAGES BIMODE A PHOTOCATHODE

Publication
EP 3198625 A1 20170802 (FR)

Application
EP 15766546 A 20150922

Priority

- FR 1458903 A 20140922
- EP 2015071789 W 20150922

Abstract (en)
[origin: CA2961118A1] The invention relates to an image acquisition device (100) comprising a photocathode (110), converting an incident flux of photons into a flux of electrons, a sensor (130), and processing means (14). The device according to the invention comprises a matrix (120) of elementary filters, each associated with at least one pixel of the sensor, said matrix being disposed upstream of the photocathode. The matrix comprises primary colour filters, and transparent filters, termed panchromatic filters. The processing means (140) are able to: - calculate a quantity, termed a useful quantity (I), for determining whether at least one zone of the sensor is in conditions of weak or strong illumination, the useful quantity being representative of a mean surface flux of photons or of electrons which is detected on a set of panchromatic pixels of the sensor; - forming, only if said zone is in conditions of strong illumination, an image of said zone on the basis of the primary colour pixels of this zone.

IPC 8 full level
H01J 31/56 (2006.01); **H04N 23/12** (2023.01)

CPC (source: EP IL US)
H01J 31/508 (2013.01 - EP IL US); **H01J 31/56** (2013.01 - EP IL US); **H01J 2231/50026** (2013.01 - 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)
FR 3026223 A1 20160325; FR 3026223 B1 20161223; CA 2961118 A1 20160331; CA 2961118 C 20230321; CN 106716592 A 20170524; CN 106716592 B 20190305; EP 3198625 A1 20170802; EP 3198625 B1 20181212; IL 251222 A0 20170529; IL 251222 B 20201130; JP 2017533544 A 20171109; JP 6564025 B2 20190821; SG 11201702126U A 20170427; US 2017287667 A1 20171005; US 9972471 B2 20180515; WO 2016046235 A1 20160331

DOCDB simple family (application)
FR 1458903 A 20140922; CA 2961118 A 20150922; CN 201580050815 A 20150922; EP 15766546 A 20150922; EP 2015071789 W 20150922; IL 25122217 A 20170316; JP 2017515796 A 20150922; SG 11201702126U A 20150922; US 201515512253 A 20150922