

Title (en)  
MULTISPECTRAL IMAGER WITH ENLARGED SPECTRAL DOMAIN

Title (de)  
MULTISPEKTRALER BILDGEBER MIT VERGRÖSSERTEN SPEKTRALBEREICH

Title (fr)  
IMAGEUR MULTISPECTRAL À DOMAINE SPECTRAL ÉLARGI

Publication  
**EP 4251961 A1 20231004 (FR)**

Application  
**EP 21823963 A 20211118**

Priority  
• FR 2012418 A 20201130  
• FR 2021052036 W 20211118

Abstract (en)  
[origin: WO2022112688A1] Disclosed is a multispectral imager designed for analysing a spectral domain of interest, comprising an image sensor (100) formed of an array of macropixels and comprising a first and a second photosensitive pixel (115) respectively dedicated to a first and a second spectral band, and a filtering structure (150) comprising a first and second interference filter (160) which are superimposed respectively on the first and second photosensitive pixel (115) and which are arranged to respectively transmit a first and second electromagnetic radiation belonging respectively to the first and second spectral bands, the multispectral imager in which a wavelength half of that of the second electromagnetic radiation is located in the spectral domain of interest, and a filtering layer (170) is superimposed on the second photosensitive pixel (160) and configured to block the passage of a third electromagnetic radiation of wavelength half that of the second electromagnetic radiation.

IPC 8 full level  
**G01J 3/02** (2006.01); **G01J 3/12** (2006.01); **G01J 3/26** (2006.01); **G01J 3/28** (2006.01)

CPC (source: EP US)  
**G01J 3/0227** (2013.01 - EP); **G01J 3/0262** (2013.01 - EP); **G01J 3/12** (2013.01 - EP); **G01J 3/26** (2013.01 - EP US); **G01J 3/2803** (2013.01 - EP); **G01J 3/2823** (2013.01 - US); **G01J 2003/1239** (2013.01 - EP US); **G01J 2003/2806** (2013.01 - US); **G01J 2003/2809** (2013.01 - EP); **G01J 2003/2826** (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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**WO 2022112688 A1 20220602**; CA 3200228 A1 20220602; CN 116507892 A 20230728; EP 4251961 A1 20231004; FR 3116899 A1 20220603; FR 3116899 B1 20230721; JP 2023551686 A 20231212; US 2024102861 A1 20240328

DOCDB simple family (application)  
**FR 2021052036 W 20211118**; CA 3200228 A 20211118; CN 202180079694 A 20211118; EP 21823963 A 20211118; FR 2012418 A 20201130; JP 2023532573 A 20211118; US 202118039052 A 20211118