

Title (en)

IMAGE SENSOR AND DEVICE COMPRISING AN IMAGE SENSOR

Title (de)

BILDSSENSOR UND VORRICHTUNG MIT EINEM BILDSSENSOR

Title (fr)

CAPTEUR D'IMAGE ET DISPOSITIF COMPRENANT UN CAPTEUR D'IMAGE

Publication

EP 4078943 A4 20230118 (EN)

Application

EP 20911692 A 20200109

Priority

CN 2020071160 W 20200109

Abstract (en)

[origin: WO2021138869A1] An image sensor comprises a plurality of pixels arranged in a two dimensional (2D) array, and a plurality of optical filters. A first set of pixels is associated with a first channel and a second set of pixels is associated with a second channel. Each optical filter is associated with one of the plurality of pixels. A first set of optical filters is associated with the pixels of the first channel, each optical filter of the first set passing light in a first wavelength range. A second set of optical filters is associated with the pixels of the second channel, each optical filter of the second set passing light in a second wavelength range. The image sensor controls an exposure time period and/or an analog gain of the pixels of the first channel independently from the pixels of the second channel.

IPC 8 full level

H04N 23/76 (2023.01)

CPC (source: EP)

H04N 23/76 (2023.01); **H04N 25/133** (2023.01); **H04N 25/534** (2023.01); **H04N 25/78** (2023.01)

Citation (search report)

- [XAI] US 2011032395 A1 20110210 - KIDO TOSHIHITO [JP], et al
- [XAI] US 2010265370 A1 20101021 - KUMAR MRITYUNJAY [US], et al
- [A] CN 110649057 A 20200103 - OPPO GUANGDONG MOBILE TELECOMMUNICATIONS CO LTD
- [A] US 8149296 B2 20120403 - OSHIKUBO HIROMICHI [JP], et al
- See also references of WO 2021138869A1

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 2021138869 A1 20210715; EP 4078943 A1 20221026; EP 4078943 A4 20230118

DOCDB simple family (application)

CN 2020071160 W 20200109; EP 20911692 A 20200109