

Title (en)
MULTI-SPECTRAL SENSOR

Title (de)
MULTISPEKTRALSENSOR

Title (fr)
CAPTEUR MULTISPECTRAL

Publication
EP 2208033 A2 20100721 (DE)

Application
EP 09715284 A 20090225

Priority
• EP 2009001346 W 20090225
• DE 102008011793 A 20080229

Abstract (en)
[origin: WO2009106316A2] The invention relates to a multi-spectral image sensor having a two-dimensional array of super-pixels, wherein each super-pixel has at least five sensor elements (11), each comprising a pixel sensor (14), a filter structure (12) having at least one structured layer made of metal or polycrystalline semi-conductor material, which, in response to the electromagnetic radiation of a wavelength region, results in a higher transmission through the filter structure to the pixel sensor (14) than wavelengths surrounding the wavelength region, wherein the at least five sensor elements (12) are jointly integrated on a semi-conductor substrate (16) and are configured on different wavelength regions in pairs.

IPC 8 full level
G01J 3/28 (2006.01); **G01J 3/51** (2006.01); **H01L 27/146** (2006.01)

CPC (source: EP)
G01J 3/02 (2013.01); **G01J 3/0208** (2013.01); **G01J 3/0229** (2013.01); **G01J 3/0243** (2013.01); **G01J 3/0259** (2013.01); **G01J 3/26** (2013.01); **G01J 3/2803** (2013.01); **G01J 3/2823** (2013.01); **G01J 3/36** (2013.01); **H01L 27/14621** (2013.01); **H01L 31/02165** (2013.01); **G01J 2003/1213** (2013.01); **H01L 27/14645** (2013.01)

Citation (search report)
See references of WO 2009106316A2

Designated contracting state (EPC)
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 SE SI SK TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
WO 2009106316 A2 20090903; **WO 2009106316 A3 20091203**; DE 102008011793 A1 20090924; EP 2208033 A2 20100721; EP 2226648 A2 20100908; EP 2226648 A3 20101229

DOCDB simple family (application)
EP 2009001346 W 20090225; DE 102008011793 A 20080229; EP 09715284 A 20090225; EP 10164790 A 20090225