

Title (en)  
LOW CONSUMPTION MATRIX SENSOR

Title (de)  
MATRIXSENSOR MIT GERINGEM VERBRAUCH

Title (fr)  
CAPTEUR MATRICIEL A FAIBLE CONSOMMATION

Publication  
**EP 2406944 A1 20120118 (FR)**

Application  
**EP 10710668 A 20100310**

Priority  
• IB 2010051025 W 20100310  
• FR 0951596 A 20090313

Abstract (en)  
[origin: WO2010103464A1] The present invention relates to an image matrix sensor comprising a plurality of individual detection structures (1ij) associated with respective pixels, each individual detection structure (1ij) comprising: a photodiode (3ij) having at least one solar cell mode operating range; a first amplifier stage (4ij) constantly supplied with power and receiving, as an input, a voltage dependent on the voltage of the photodiode (3ij) which falls within said range; and a second amplifier stage (5ij) linked to the output of the first amplifier stage (4ij) and supplied with power in a different manner according to whether or not the first amplifier stage is read.

IPC 1-7  
**H04N 3/15**

IPC 8 full level  
**H04N 5/335** (2011.01); **H04N 5/341** (2011.01); **H04N 5/3745** (2011.01)

CPC (source: EP KR US)  
**H04N 3/155** (2023.08 - US); **H04N 25/00** (2023.01 - EP US); **H04N 25/40** (2023.01 - US); **H04N 25/76** (2023.01 - KR);  
**H04N 25/77** (2023.01 - EP US); **H04N 25/771** (2023.01 - EP); **H04N 25/67** (2023.01 - EP KR)

Citation (examination)  
FR 2819941 A1 20020726 - GET INT [FR]

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 SM TR

DOCDB simple family (publication)  
**WO 2010103464 A1 20100916**; CN 102379120 A 20120314; CN 102379120 B 20140723; EP 2406944 A1 20120118; FR 2943178 A1 20100917;  
FR 2943178 B1 20110826; JP 2012520599 A 20120906; JP 5791523 B2 20151007; KR 101361743 B1 20140221; KR 20110125272 A 20111118;  
US 2012074299 A1 20120329; US 8884205 B2 20141111

DOCDB simple family (application)  
**IB 2010051025 W 20100310**; CN 201080011880 A 20100310; EP 10710668 A 20100310; FR 0951596 A 20090313; JP 2011553584 A 20100310;  
KR 20117024094 A 20100310; US 201013256351 A 20100310