

Title (en)
PHOTODIODE ARRAY HAVING ADJUSTABLE CHARGE-ABSORPTION

Title (de)
FOTODIODENARRAY MIT EINSTELLBARER LADUNGSABSORPTION

Title (fr)
MATRICE DE PHOTODIODE À ABSORPTION RÉGLABLE DE CHARGE

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Application
EP 14725184 A 20140521

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• FR 1354597 A 20130522
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Abstract (en)
[origin: WO2014187840A1] The invention concerns a photodiode array comprising a first common electrode with a P-N junction, comprising at least one substrate layer (4) and one active layer (5), - a passivation layer (6), and at least two kinds of doped areas of the same type: - first doped areas (3) at least partially formed in the active layer (5), defining second electrodes to form, with the first common electrode, photodiodes connected to reading circuits to form images, - at least one second doped area (10) forming a third electrode capable of absorbing excess charge carriers in order to discharge same, polarisation means being capable of applying, to said second doped area, an electrical potential (Vring) by means of which the absorption of the charge carriers by said second doped area (10) can be adjusted, said at least one second doped area (10) being formed in the passivation layer (6) and being separated from the active layer (5) by a portion of said passivation layer (6).

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