

Title (en)

COMPACT DETECTION ARRAY HAVING IMPROVED POLARIZATION CONDITIONS

Title (de)

KOMPAKTE DETEKTIONSANORDNUNG MIT VERBESSERTEN POLARISATIONSBEDINGUNGEN

Title (fr)

MATRICE DE DÉTECTION COMPACTE À CONDITIONS DE POLARISATION AMÉLIORÉES

Publication

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Application

EP 12813904 A 20121130

Priority

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- FR 2012000498 W 20121130

Abstract (en)

[origin: WO2013079826A1] The invention relates to a photodetector array (1), which is organized along a first organizational axis on a semiconductor substrate (6) of a first conductivity type. Each photodetector (1) is at least partially created in the substrate (6) forming a first photodetector electrode. A peripheral polarization ring is formed around the photodetector array (1). The polarization ring (2) is connected to a polarization voltage generator (3) and to the substrate (6). A read circuit is connected to a photodetector by means of the second terminal of the photodetector. A first switch connects the photodetector (1) to a generator (9) of additional voltage (VW). A second switch connects the photodetector (1) to the associated read circuit. The first and second switches (7, 8) are in opposite states.

IPC 8 full level

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