

Title (en)
OPTOELECTRONIC COMPONENT HAVING A CONDUCTIVE CONTACT STRUCTURE

Title (de)
OPTOELEKTRONISCHES BAUELEMENT MIT LEITFÄHIGER KONTAKTSTRUKTUR

Title (fr)
COMPOSANT OPTOELECTRONIQUE A STRUCTURE DE CONTACT CONDUCTRICE

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Application
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Abstract (en)
[origin: WO02093653A2] The invention relates to an optoelectronic component for converting electromagnetic radiation into an intensity-dependent photoelectric current. Said component consists of one substrate (1) which is formed especially according to CMOS technology (1). Said substrate has an integrated semiconductor structure (ASIC) and an optically active thin layer structure which is situated upstream in the direction of light incidence. Said structure consists of a layer (9) of a transparent conductive material and at least one layer (6, 7, 8) of semiconductor material, which are arranged on an isolating layer (4), inside which connection means (2, 3, 5) are provided for establishing a connection between the optically active thin layer structure and the integrated semiconductor structure arranged on the substrate. The aim of the invention is to develop one such optoelectronic component in such a way that the electrical connection between the layer (9) of transparent conductive material and an electric potential connection (15) can be established in a technically simple manner. To this end, the layer of transparent conductive material can be connected to the potential connection (15) arranged outside the pixel arrangement by means of an additional conductive structure (10, 11, 12, 13) formed on the substrate.

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