

Title (en)

WEAK LIGHT DETECTION USING AN ORGANIC, PHOTSENSITIVE COMPONENT

Title (de)

SCHWACHLICHTDETEKTION MIT ORGANISCHEM FOTOSENSITIVEM BAUTEIL

Title (fr)

DÉTECTION DE LUMIÈRE FAIBLE AU MOYEN D'UN COMPOSANT PHOTOSENSIBLE ORGANIQUE

Publication

EP 2705553 A1 20140312 (DE)

Application

EP 12732579 A 20120619

Priority

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- EP 2012061724 W 20120619

Abstract (en)

[origin: WO2012175505A1] The invention relates to the novel use of an organic intermediate layer (30) in a photosensitive component (1, 2, 3) for increasing the limit frequency (fco) of the component, preferably in the range of low radiation intensities (??). The photosensitive component (1, 2, 3) is in particular a diode having a photoactive organic semiconductor layer (31), a first (20) and a second electrode (21), wherein an organic intermediate layer (30) is arranged between the photoactive semiconductor layer (31) and at least one of the electrodes (20, 21). The organic intermediate layer (30) is in particular a charge-blocking layer.

IPC 8 full level

H10K 99/00 (2023.01)

CPC (source: EP US)

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Citation (examination)

- WO 9939395 A1 19990805 - UNIAX CORP [US]
- WO 2009034332 A1 20090319 - MOLECULAR VISION LTD [GB], et al
- DE 102006046210 A1 20080403 - SIEMENS AG [DE]
- See also references of WO 2012175505A1

Designated contracting state (EPC)

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