

Title (en)

PIN-COMPATIBLE INFRARED LIGHT DETECTOR HAVING IMPROVED THERMAL STABILITY

Title (de)

PIN-KOMPATIBLER INFRAROTLICHTDETEKTOR MIT VERBESSERTER THERMISCHER STABILITÄT

Title (fr)

DÉTECTEUR DE LUMIÈRE INFRAROUGE À COMPATIBILITÉ DE BROCHAGE, ET À STABILITÉ THERMIQUE AMÉLIORÉE

Publication

EP 2569608 A1 20130320 (DE)

Application

EP 11719005 A 20110511

Priority

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- EP 2011057611 W 20110511

Abstract (en)

[origin: WO2011141509A1] The invention relates to an infrared light detector, comprising at least one sensor chip (3, 4), which has a layer element (5, 8) that is produced from a pyroelectrically sensitive material and further has a base electrode (6, 9) and a head electrode (7, 10), to which the layer element (5, 8) is connected for tapping electric signals generated in the layer element (5, 8) by irradiation of the at least one sensor chip with light (2), and further comprising a transimpedance amplifier (11, 12) for amplifying the signals with an operational amplifier (19, 25), which is asymmetrically operated by a supply voltage source (13) having a positive supply voltage and to the inverting input (21, 27) of which the base electrode (6, 9) is connected. At the voltage supply source (13), a voltage divider (15) that is connected to ground (14) is provided with a partial node (18), to which a partial voltage that is smaller than the supply voltage is applied and which is electrically coupled to the non-inverting input (20, 26) and the head electrode (7, 10).

IPC 8 full level

G01J 5/34 (2006.01)

CPC (source: EP KR US)

G01J 5/34 (2013.01 - EP KR US)

Citation (search report)

See references of WO 2011141509A1

Citation (examination)

- DE 10221708 A1 20031204 - INFRATEC GMBH INFRAROTSENSORIK [DE]
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DOCDB simple family (publication)

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