

Title (en)
DETECTOR ARRANGEMENT AND METHOD FOR THE DETECTION OF ELECTRICAL CHARGE CARRIERS

Title (de)
ERMITTLUNGS-ANORDNUNG UND VERFAHREN ZUM ERMITTELN ELEKTRISCHER LADUNGSTRAEGER

Title (fr)
DISPOSITIF DE DÉTECTION ET PROCÉDÉ DE DÉTECTION DE PORTEURS DE CHARGES ÉLECTRIQUES

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Application
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Abstract (en)
[origin: WO03079454A1] The invention relates to a detector arrangement (100), a method for the detection of electrical charge carriers and use of an ONO field effect transistor for detection of an electrical charge. The detector arrangement (100) has an ONO field effect transistor embodied on and/or in a substrate (101), for the detection of electrical charge carriers, such that the electrical charge carrier (103) for detection may be introduced into the ONO field effect transistor layer sequence (102), a recording unit (104), coupled to the ONO field effect transistor, for recording an electrical signal characteristic of the amount and/or the charge carrier type for the electrical charge carrier (103) introduced into the ONO layer sequence (102) and an analytical unit for determining the amount and/or the charge carrier type of the electrical charge carrier (103) introduced into the ONO layer sequence (102) from the characteristic electrical signal.

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