

Title (en)

METHOD FOR CONTINUOUSLY DETERMINING ALL OF THE COMPONENTS OF THE RESISTANCE TENSOR OF THIN FILMS

Title (de)

VERFAHREN ZUR KONTINUIERLICHEN BESTIMMUNG SÄMTLICHER KOMPONENTEN EINES WIDERSTANDSTENSORS VON DÜNNESCHICHTEN

Title (fr)

PROCÉDÉ DE DÉTERMINATION EN CONTINU DE LA TOTALITÉ DES COMPOSANTS D'UN TENSEUR DE RÉSISTANCE DE COUCHES MINCES

Publication

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Application

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Priority

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- EP 2019056760 W 20190319

Abstract (en)

[origin: WO2019179972A1] The invention relates to a method for continuously determining all the components of the resistance tensor of thin films, such as thin film resistors and thin film sensors of all types. The invention is to provide a method for continuously determining all of the components of the resistance tensor of thin films, such as thin film resistors and thin film sensors of all types, wherein a continuous determination of all the components of the resistance tensor is facilitated without switching the contact points using a minimum number of contacts. This is achieved in that a homogeneous thin film part (T) of any shape is provided with at least three contact points (K1 to K3) arranged at distances from one another. An input voltage $U_i(t)$ is applied at each of the contact points (K1 to K3), the currents $i_i(t)$ flowing through the contact points (K1 to K3) are detected, and the complete resistance tensor p of the thin film part (T) is determined from the voltage and current values.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2019179972A1

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