

Title (en)

METHOD FOR OPERATING A GAS SENSOR TO IMPROVE THE LONG-TERM STABILITY OF THE GAS SENSOR

Title (de)

VERFAHREN ZUM BETRIEB EINES GASSENSORS ZUR VERBESSERUNG DER LANGZEITSTABILITÄT DES GASSENSORS

Title (fr)

PROCÉDÉ DE FONCTIONNEMENT D'UN CAPTEUR DE GAZ PERMETTANT D'AMÉLIORER LA STABILITÉ À LONG TERME DE CE DERNIER

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Application

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Abstract (en)

[origin: WO2016012336A1] The invention relates to a method for operating a gas sensor for detecting nitrogen oxides in a gas mixture, comprising the following steps: provision of a gas sensor with at least two electrodes made from the same material and arranged on an oxygen ion conductor, wherein both electrodes contact the gas mixture during operation. A polarization of the electrodes is subsequently carried out in such a way that a voltage is changed from a first voltage to a second voltage. The depolarization of the electrodes in the presence of the gas mixture is recorded. The electrodes are subsequently short-circuited in such a way that the first voltage is applied at the electrodes after the short-circuiting.

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