

Title (en)

METHOD AND DEVICE FOR PUMPING OXYGEN INTO A GAS SENSOR

Title (de)

METHODE UND VERFAHREN ZUM PUMPEN VON SAUERSTOFF IN EINEM GASSENSOR

Title (fr)

PROCEDE ET DISPOSITIF DE POMPAGE D'OXYGENE DANS UN CAPTEUR DE GAZ

Publication

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Application

EP 00992442 A 20001020

Priority

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- US 16073499 P 19991020

Abstract (en)

[origin: WO0129546A2] A gas sensor is created comprising an electrochemical cell having a solid electrolyte layer disposed between an exhaust gas electrode and a reference electrode. A resistor is disposed in electrical communication with a heater and the reference electrode. The resistor can be disposed on a side of the gas sensor; on a side of the gas sensor such that the resistor is electrically connected through a via hole; over at least a portion of at least two sides of the gas sensor; or disposed in a void extending at least from the heater to the pump electrode, such that the void extends to at least a surface of the gas sensor, extends to at least partially through the gas sensor, or extends completely through the gas sensor. A method for using this gas sensor comprises applying a voltage to the heater within the gas sensor. A current is directed through the resistor to the reference electrode to pump oxygen into the reference electrode.

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IPC 8 full level

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