

Title (en)

METHOD AND DEVICE FOR THE OPERATION OF AN EXHAUST GAS ANALYZING SENSOR CELL

Title (de)

VERFAHREN UND VORRICHTUNG ZUM BETREIBEN EINER ABGAS-ANALYSE-SENSORZELLE

Title (fr)

PROCEDE ET DISPOSITIF PERMETTANT DE FAIRE FONCTIONNER UNE CELLULE DE DETECTEUR POUR L'ANALYSE DE GAZ D'ECHAPPEMENT

Publication

**EP 1738162 A1 20070103 (DE)**

Application

**EP 05717051 A 20050315**

Priority

- EP 2005051178 W 20050315
- DE 102004018871 A 20040419

Abstract (en)

[origin: WO2005100970A1] The invention relates to a method and a device for operating a sensor cell (1) that is used for analyzing exhaust gas. The aim of the invention is to create a method and a corresponding device which supply reliable test results in each mode of operation of a sensor, also when using advantageous pulse width-controlled regulation of the heating element (6). Said aim is achieved by correcting the potential of the reference electrode (Ref) of the sensor substantially in synchrony with the mean of the supply voltage (Vpwm) of the electrical heating element (6).

IPC 8 full level

**G01N 27/406** (2006.01); **G01N 27/419** (2006.01)

CPC (source: EP US)

**G01N 27/4065** (2013.01 - EP US); **G01N 27/419** (2013.01 - EP US)

Citation (search report)

See references of WO 2005100970A1

Designated contracting state (EPC)

DE FR

DOCDB simple family (publication)

**WO 2005100970 A1 20051027**; DE 102004018871 A1 20051110; DE 102004018871 B4 20060309; EP 1738162 A1 20070103; JP 2007532927 A 20071115; US 2007222454 A1 20070927

DOCDB simple family (application)

**EP 2005051178 W 20050315**; DE 102004018871 A 20040419; EP 05717051 A 20050315; JP 2007508891 A 20050315; US 58729105 A 20050315