

Title (en)

SENSOR ELEMENT WITH CATALYTICALLY ACTIVE LAYER AND METHOD FOR THE PRODUCTION THEREOF

Title (de)

SENSORELEMENT MIT KATALYTISCH AKTIVER SCHICHT UND VERFAHREN ZUR HERSTELLUNG DESSELBEN

Title (fr)

ELEMENT DETECTEUR COMPORTANT UNE COUCHE A EFFET CATALYTIQUE ET SON PROCEDE DE PRODUCTION

Publication

EP 1269175 A1 20030102 (DE)

Application

EP 01921191 A 20010315

Priority

- DE 0100972 W 20010315
- DE 10013881 A 20000321

Abstract (en)

[origin: WO0171332A1] A sensor element for the determination of gas component concentrations in exhaust gases from internal combustion engines is disclosed. The above comprises at least one gas measuring chamber (13) and at least one gas entry opening (17), by means of which the gas mixture may be introduced into the above gas measuring chamber (13) and at least one diffusion barrier (12), arranged between the gas entry opening (17) and the gas measuring chamber (13). The diffusion barrier (12) comprises at least one layer (14, 14a, 14b), made from catalytically active material, for adjusting the balance of the gas components.

IPC 1-7

G01N 27/407; **G01N 27/417**

IPC 8 full level

F01N 3/00 (2006.01); **F01N 7/00** (2006.01); **F02D 41/14** (2006.01); **G01N 27/419** (2006.01); **H01M 8/04** (2006.01)

CPC (source: EP US)

G01N 27/419 (2013.01 - EP US); **Y10T 29/49002** (2015.01 - EP US)

Citation (search report)

See references of WO 0171332A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

WO 0171332 A1 20010927; BR 0109352 A 20021203; DE 10013881 A1 20011004; DE 10013881 B4 20070111; EP 1269175 A1 20030102; JP 2003528258 A 20030924; US 2003155239 A1 20030821

DOCDB simple family (application)

DE 0100972 W 20010315; BR 0109352 A 20010315; DE 10013881 A 20000321; EP 01921191 A 20010315; JP 2001569268 A 20010315; US 23954903 A 20030204