

Title (en)

SENSOR FOR DETERMINING THE CONCENTRATION OF OXIDISABLE ELEMENTS IN A GAS COMPOUND

Title (de)

SENSOR ZUR BESTIMMUNG DER KONZENTRATION OXIDIERBARER BESTANDTEILE IN EINEM GASGEMISCH

Title (fr)

DETECTEUR POUR DETERMINER LA CONCENTRATION DE CONSTITUANTS OXYDABLES D'UN MELANGE GAZEUX

Publication

**EP 0843813 A1 19980527 (DE)**

Application

**EP 97923831 A 19970516**

Priority

- DE 9700996 W 19970516
- DE 19623434 A 19960612

Abstract (en)

[origin: DE19623434A1] The invention concerns a sensor for determining the concentration of oxidisable elements in a gas compound, in particular for determining one or more of the gases, NO<sub>x</sub>, CO, H<sub>2</sub> and especially unsaturated hydrocarbons, by measuring the tension between a measuring electrode (1, 2) and a reference electrode (3) or by measuring the tension between two measuring electrodes [(1) and (2)]. Selectivity of response for individual components of the measured gases can be improved by using specific material for the measuring electrodes, in particular semiconductors. By using porous fixed electrolytes, a reference gas atmosphere can be avoided and, therefore, increased miniaturisation and constructive simplification can be achieved.

IPC 1-7

**G01N 27/407**

IPC 8 full level

**G01N 27/409** (2006.01); **G01N 27/406** (2006.01); **G01N 27/407** (2006.01); **G01N 27/416** (2006.01)

CPC (source: EP KR US)

**G01N 27/407** (2013.01 - KR); **G01N 27/4071** (2013.01 - EP US); **G01N 27/4074** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**DE 19623434 A1 19971218**; CN 1195403 A 19981007; EP 0843813 A1 19980527; JP 4162262 B2 20081008; JP H11510908 A 19990921; KR 19990036337 A 19990525; US 6022464 A 20000208; WO 9747963 A1 19971218

DOCDB simple family (application)

**DE 19623434 A 19960612**; CN 97190685 A 19970516; DE 9700996 W 19970516; EP 97923831 A 19970516; JP 50103698 A 19970516; KR 19980701005 A 19980211; US 1157798 A 19980211