Title (en)
GAS DETECTOR HAVING AN ACOUSTIC MEASURING CELL AND SELECTIVELY ADSORBING SURFACE

Title (de)
GASDETEKTOR MIT AKUSTISCHER MESSZELLE UND SELEKTIV ADSORBIERENDER OBERFLÄCHE

Title (fr)
DÉTECTEUR DE GAZ AVEC CELLULE DE MESURE ACOUSTIQUE ET SURFACE SÉLECTIVEMENT ADSORBANTE

Publication
EP 2018535 A2 20090128 (DE)

Application
EP 07725143 A 20070512

Priority
• EP 2007004223 W 20070512
• DE 102006023061 A 20060517

Abstract (en)
[origin: WO2007131739A2] A gas detector having a selectively adsorbing surface (3) and an acoustic measuring cell (5) is presented. The detector is distinguished by the fact that the selectively adsorbing surface (3) and the acoustic measuring cell (5) can be arranged with respect to one another in such a manner that gases desorbed by means of thermal desorption from the adsorbing surface (3) pass into the acoustic measuring cell (5) and trigger a pressure wave there which can be measured by one or more sound pick-ups (13, 14), in particular microphones, which are arranged in the acoustic measuring cell (5). A corresponding method is also provided. The detector is particularly suitable for measuring harmful substances in inside spaces and ventilation devices.

IPC 8 full level
G01N 1/22 (2006.01); **G01N 21/17** (2006.01); **G01N 29/24** (2006.01); **G01N 33/00** (2006.01)

CPC (source: EP US)
G01N 21/1702 (2013.01 - EP US); **G01N 29/2425** (2013.01 - EP US); **G01N 29/348** (2013.01 - EP US); **G01N 29/4481** (2013.01 - EP US); G01N 1/405 (2013.01 - EP US); G01N 2021/1704 (2013.01 - EP US); G01N 2291/021 (2013.01 - EP US); G01N 2291/0423 (2013.01 - EP US)

Citation (search report)
See references of WO 2007131739A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
DE 102006023061 A1 20071122; **DE 102006023061 B4 20080814**; EP 2018535 A2 20090128; US 2009183552 A1 20090723; US 8302461 B2 20121106; WO 2007131739 A2 20071122; WO 2007131739 A3 20080103

DOCDB simple family (application)
DE 102006023061 A 20060517; EP 07725143 A 20070512; EP 2007004223 W 20070512; US 30095207 A 20070512