

Title (en)
SENSOR FOR DETECTING GAS

Title (de)
SENSOR ZUR DETEKTION VON GASEN

Title (fr)
CAPTEUR DE DETECTION DE GAZ

Publication
EP 1370853 A2 20031217 (DE)

Application
EP 02727198 A 20020305

Priority
• DE 0200799 W 20020305
• DE 10111269 A 20010309

Abstract (en)
[origin: WO02073176A2] The invention relates to a sensor for detecting gas. According to the invention, a signal evaluation (23) emits an output signal (24) whereby a predetermined weighting factor for at least two types of gas is set in the sensor element (16). A sensor heater (15) is provided and alters the temperature (Temp1, Temp2) of the sensor element (16) in a first time interval (I1) which is shorter than the time required for the sensor element (16) to create a chemical equilibrium, the sensor element (16) being at least approximately in a state of thermal equilibrium. The signal evaluation (23) evaluates the temporal sensor signal response after the temperature has been altered (Temp1, Temp2). The sensor signal (S) is at least partially located in a second time interval (I2), wherein the chemical equilibrium of the sensor element (16) is not created.

IPC 1-7
G01N 27/00

IPC 8 full level
G01N 33/00 (2006.01)

CPC (source: EP)
G01N 27/124 (2013.01)

Citation (search report)
See references of WO 02073176A2

Cited by
US9945023B2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 02073176 A2 20020919; WO 02073176 A3 20031002; DE 10111269 A1 20020912; EP 1370853 A2 20031217

DOCDB simple family (application)
DE 0200799 W 20020305; DE 10111269 A 20010309; EP 02727198 A 20020305