

Title (en)  
GAS SENSOR

Title (de)  
GASSENSOR

Title (fr)  
DETECTEUR DE GAZ

Publication  
**EP 1038173 A1 20000927 (DE)**

Application  
**EP 97931686 A 19970619**

Priority  

- DE 9701366 W 19970619
- DE 19628692 A 19960717
- DE 19705402 A 19970213

Abstract (en)  
[origin: DE19705402A1] A gas sensor has a sensor element (12) secured in a gas-tight manner in a metallic housing (11). The gas sensor has a double-walled protective tube (30) with an outer protective sleeve (31) and an inner protective sleeve (32) with gas inlet and/or outlet openings. The inner protective sleeve (32) forms a gas measurement chamber (34) in which the sensor element (12) penetrates with a section (13) at the exhaust gas side. The outer protective sleeve (31) and the inner protective sleeve (32) are designed in a single piece.

IPC 1-7  
**G01N 27/407**

IPC 8 full level  
**G01N 27/409** (2006.01); **G01N 27/407** (2006.01)

CPC (source: EP KR)  
**G01N 27/407** (2013.01 - KR); **G01N 27/4077** (2013.01 - EP)

Citation (search report)  
See references of WO 9803861A1

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
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KR 19980701875 A 19980313