

Title (en)

EXTENDED RANGE AIR FUEL RATIO SENSOR.

Title (de)

SENSOR EINES AUSGEDEHNTEN LUFT/BRENNSTOFFVERHÄLTNISSES.

Title (fr)

DETECTEUR DE RAPPORT AIR/CARBURANT A PLAGE ETENDUE.

Publication

EP 0149606 A4 19860107 (EN)

Application

EP 83903020 A 19830715

Priority

US 8301083 W 19830715

Abstract (en)

[origin: WO8500658A1] An exhaust gas oxygen sensor (110) for determining an exhaust gas, air fuel ratio over a wide range of values, including those richer than, leaner than, and near the stoichiometric air fuel value, includes a first (111) and a second (121) electrochemical cell. The two electrochemical cells are spaced from one another and define therebetween a partially enclosed volume. The volume is in communication with the exhaust gases through an opening (126). A first side of each of the first and second electrochemical cells is exposed to the volume. A second side of the first electrochemical cell (111) is exposed to the exhaust gases. A second side of the second electrochemical cell is exposed to a reference atmosphere.

IPC 1-7

G01N 27/58

IPC 8 full level

G01N 27/409 (2006.01); **G01N 27/27** (2006.01); **G01N 27/407** (2006.01); **G01N 27/417** (2006.01)

CPC (source: EP)

G01N 27/417 (2013.01)

Citation (search report)

- [X] GB 2097541 A 19821103 - FORD MOTOR CO
- [A] EP 0057899 A2 19820818 - HITACHI LTD [JP]
- [A] US 3699032 A 19721017 - RAPP ROBERT ANTHONY
- [A] US 3650934 A 19720321 - HICKAM WILLIAM M, et al
- [X] ANALYTICAL CHEMISTRY, vol. 49, no. 12, October 1977, pages 1813-1817, US; D.M. HAALAND: "Internal-reference solid-electrolyte oxygen sensor"
- See references of WO 8500658A1

Designated contracting state (EPC)

DE GB NL

DOCDB simple family (publication)

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