

Title (en)

HEATED BISTABLE PROBE HAVING SIMPLIFIED ELECTRICAL CONTACTING

Title (de)

BEHEIZTE SPRUNGSONDE MIT VEREINFACHTER ELEKTRISCHER KONTAKTIERUNG

Title (fr)

SONDE BISTABLE CHAUFFÉE AVEC CONTACT ÉLECTRIQUE SIMPLIFIÉ

Publication

**EP 2269047 A1 20110105 (DE)**

Application

**EP 09731958 A 20090306**

Priority

- EP 2009052666 W 20090306
- DE 102008001223 A 20080417

Abstract (en)

[origin: WO2009127469A1] The invention relates to a sensor element (112) for determining at least one physical property of a gas in a measuring gas chamber (130), in particular for determining an oxygen concentration in the exhaust gas of an internal combustion engine. The sensor element (112) has at least two electrodes (124, 128), and at least one solid electrolyte (126) connecting the electrodes (124, 128). Furthermore, the sensor element (112) has at least one heating element (136) having at least two heating contacts (144, 146), wherein at least one first heating contact (144) of said heating contacts (144, 146) and one first electrode (124) of said electrodes (124, 128) can be contacted via a shared connection line (152), and wherein at least one second heating contact (146) of said heating contacts (144, 146) and one second electrode (128) of said electrodes (124, 128) are connected using a shared ground line (148).

IPC 8 full level

**G01N 27/406** (2006.01)

CPC (source: EP US)

**G01N 27/4067** (2013.01 - EP US)

Citation (search report)

See references of WO 2009127469A1

Citation (examination)

US 6723217 B1 20040420 - DUCE RICHARD W [US], et al

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**DE 102008001223 A1 20091022**; CN 102007399 A 20110406; EP 2269047 A1 20110105; US 2011108419 A1 20110512; WO 2009127469 A1 20091022

DOCDB simple family (application)

**DE 102008001223 A 20080417**; CN 200980113316 A 20090306; EP 09731958 A 20090306; EP 2009052666 W 20090306; US 73651609 A 20090306