

Title (en)

SENSOR ELEMENT OF A GAS SENSOR AND METHOD FOR OPERATING THE SAME

Title (de)

SENSORELEMENT EINES GASSENSORS UND VERFAHREN ZUM BETRIEB DESSELBEN

Title (fr)

ÉLÉMENT DÉTECTEUR D'UN DÉTECTEUR DE GAZ, ET PROCÉDÉ PERMETTANT DE LE FAIRE FONCTIONNER

Publication

**EP 2396650 A1 20111221 (DE)**

Application

**EP 09801687 A 20091215**

Priority

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- DE 102009000820 A 20090212

Abstract (en)

[origin: WO2010091761A1] The invention relates to a sensor element of a gas sensor for determining gas components in gas mixtures, comprising a field effect transistor and/or a diode, comprising a changing current flow upon contact with a gas to be detected, and positioned to be protected by a protective cap against direct inlet of the gas mixture. According to the invention, the protective cap (18) comprises a heating means (24), a glass former (34), and/or an oxidation catalyst (32).

IPC 8 full level

**G01N 27/414** (2006.01); **G01N 33/00** (2006.01)

CPC (source: EP US)

**G01N 27/414** (2013.01 - US); **G01N 27/4141** (2013.01 - EP US); **G01N 33/0013** (2013.01 - EP US)

Citation (search report)

See references of WO 2010091761A1

Citation (examination)

- CH 654930 A5 19860314 - PROCESS ELECT ANALYSE REGELGE
- DE 4131503 A1 19930401 - BOSCH GMBH ROBERT [DE]

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DOCDB simple family (publication)

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DOCDB simple family (application)

**DE 102009000820 A 20090212**; CN 200980156572 A 20091215; EP 09801687 A 20091215; EP 2009067160 W 20091215; JP 2011549452 A 20091215; US 200913138288 A 20091215