

Title (en)

PRESSURE SENSOR WITH AN IR RADIATION SENSOR

Title (de)

DRUCKAUFNEHMER MIT IR-STRAHLUNGS-AUFNEHMER

Title (fr)

CAPTEUR DE PRESSION POURVU D'UN CAPTEUR DE RAYONNEMENT INFRAROUGE

Publication

**EP 1706717 A1 20061004 (DE)**

Application

**EP 04790041 A 20041023**

Priority

- DE 2004002372 W 20041023
- DE 10360079 A 20031220

Abstract (en)

[origin: WO2005062013A1] The invention relates to a pressure sensor comprising a membrane (1) which be moved or deformed in a variable manner as a result of pressure differences. The structure of the pressure sensor is such that it can also be used advantageously in areas which are difficult to access and at high temperatures. At least one functional section (1.1.) of the membrane (1) consists of a material which has the properties of a black radiator or which has a radiation capacity in the respective spectral radiation range which is essential for detection, corresponding to the temperature of the membrane (1) in conditions of use. The membrane (1) is associated with at least one radiation receiver unit with an IR radiation sensor (4), which at least partially detects the radiation thus emitted.

IPC 8 full level

**G01J 5/10** (2006.01); **G01L 1/24** (2006.01); **G01L 9/00** (2006.01); **G01L 11/02** (2006.01); **G01L 23/16** (2006.01)

CPC (source: EP US)

**G01L 9/0076** (2013.01 - EP US); **G01L 11/02** (2013.01 - EP US); **G01L 23/16** (2013.01 - EP US)

Citation (search report)

See references of WO 2005062013A1

Designated contracting state (EPC)

CH DE GB LI

DOCDB simple family (publication)

**WO 2005062013 A1 20050707**; DE 10360079 A1 20050721; EP 1706717 A1 20061004; JP 2006528338 A 20061214; JP 4495727 B2 20100707; US 2007068261 A1 20070329; US 7518113 B2 20090414

DOCDB simple family (application)

**DE 2004002372 W 20041023**; DE 10360079 A 20031220; EP 04790041 A 20041023; JP 2006520671 A 20041023; US 58347404 A 20041023