

Title (en)

TESTABLE MEMBRANE SENSOR WITH TWO FULL BRIDGES

Title (de)

PRÜFBARER MEMBRANSENSOR MIT ZWEI VOLLBRÜCKEN

Title (fr)

CAPTEUR TESTABLE A MEMBRANE POURVU DE DEUX PONTS INTEGRAUX

Publication

**EP 0783677 A1 19970716 (DE)**

Application

**EP 96922746 A 19960706**

Priority

- DE 9601211 W 19960706
- DE 19527687 A 19950728

Abstract (en)

[origin: DE19527687A1] A testable and highly available sensor has a measurement membrane that bears the resistances of two different full bridges. On the right half (4) radial compressions (R1, 4) and extensions (R2, 3) are used, on the left half (3) radial compressions (R1, 4) but tangential extensions (R2, 3) are used. Ageing phenomena influence the sensitivity of both full bridges to a different extent, so that the sensor may be tested during its operation without any special reference measurements. In addition, one full bridge may be used in an emergency when the other full bridge breaks down.

IPC 1-7

**G01L 27/00**; G01L 9/06; G01L 7/08

IPC 8 full level

**G01L 9/04** (2006.01); **B60T 8/171** (2006.01); **G01L 9/00** (2006.01); **G01R 17/10** (2006.01)

CPC (source: EP US)

**B60T 8/171** (2013.01 - EP US); **G01L 9/0051** (2013.01 - EP US); **G01L 9/0055** (2013.01 - EP US); **G01R 17/105** (2013.01 - EP US)

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See references of WO 9705464A1

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CN1068055C; DE10203631B4

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CH DE ES FR GB IT LI SE

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**DE 19527687 A1 19970130**; EP 0783677 A1 19970716; JP H10506718 A 19980630; US 6289738 B1 20010918; WO 9705464 A1 19970213

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