

Title (en)

PRESSURE SENSOR HAVING COPLANAR METER BODY WITH SENSOR OVERPRESSURE PROTECTION

Title (de)

DRUCKSENSOR MIT KOPLANAREM ZÄHLERKÖRPER MIT SENSORÜBERDRUCKSCHUTZ

Title (fr)

CAPTEUR DE PRESSION PRÉSENTANT UN CORPS DE COMPTEUR COPLANAIRE DOTÉ D'UNE PROTECTION DU CAPTEUR CONTRE LA SURPRESSION

Publication

**EP 3593104 A4 20201216 (EN)**

Application

**EP 18763768 A 20180306**

Priority

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- US 2018021096 W 20180306

Abstract (en)

[origin: WO2018165122A1] An apparatus includes a sensor body (206) and a sensor (204) configured to measure differential pressure. The apparatus also includes first and second coplanar pressure inputs in or on the sensor body, where the pressure inputs are configured to provide multiple input pressures to the sensor. Each pressure input includes a barrier diaphragm (208, 210) configured to move in response to pressure and an overload diaphragm (216, 218) configured to limit movement of the barrier diaphragm. First and second fill fluid (406, 408) may be configured to convey the pressures from the barrier diaphragms of the pressure inputs to the sensor as first and second input pressures. Passages (212, 402, 404) may be configured to transport the fill fluid between (i) gaps between the barrier diaphragms and the overload diaphragms of the pressure inputs and (ii) the sensor and gaps between the overload diaphragms and the sensor body.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [X] US 2002017143 A1 20020214 - BURCZYK DIETFRIED [DE], et al
- [X] DE 102012025070 A1 20140626 - ENDRESS & HAUSER GMBH & CO KG [DE]
- See references of WO 2018165122A1

Designated contracting state (EPC)

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