

Title (en)  
DIFFERENTIAL PRESSURE SENSOR

Title (de)  
DIFFERENZDRUCKSENSOR

Title (fr)  
CAPTEUR DE PRESSION DIFFÉRENTIELLE

Publication  
**EP 3482181 A1 20190515 (DE)**

Application  
**EP 17732447 A 20170626**

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Abstract (en)  
[origin: WO2018007179A1] The invention relates to a differential pressure sensor for determining a pressure measurement signal, comprising the following: a differential pressure measuring cell which substantially has a semiconductor material, to which a first and a second pressure can be applied, and which outputs the pressure measurement signal using an electric converter element on the basis of a difference between the first and the second pressure; a first stiffening element that preferably has a ceramic or a semiconductor material, is joined to the differential pressure measuring cell by means of a first joining layer, and has a first channel via which the first pressure can be applied to the differential pressure measuring cell; and a second stiffening element that preferably has ceramic or a semiconductor material, is joined to the differential pressure measuring cell by means of a second joining layer, and has a second channel via which the second pressure can be applied to the differential pressure measuring cell; wherein the first and/or the second joining layer has an electrically conductive material, preferably a metal material, and the first and/or second joining layer is used to provide an electric functionality in addition to mechanically connecting the differential pressure measuring cell to the first and second stiffening element, respectively.

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