

Title (en)

COMPACT PARTICULATE SENSOR WITH INTERNAL TEST-GAS CONDUCTION

Title (de)

KOMPAKTER PARTIKELSENSOR MIT SENSORINTERNER MESSGASFÜHRUNG

Title (fr)

CAPTEUR COMPACT DE PARTICULES PRÉSENTANT UN GUIDAGE INTERNE AU CAPTEUR DE GAZ DE MESURE

Publication

**EP 3884263 A1 20210929 (DE)**

Application

**EP 19787234 A 20191014**

Priority

- DE 102018220141 A 20181123
- EP 2019077706 W 20191014

Abstract (en)

[origin: WO2020104112A1] Provided is a particulate sensor (12) comprising a support substrate (34), a corona-discharge electrode (40), a grounding electrode (42) and at least one measuring electrode (46), said electrodes (40, 46) being attached to the support substrate (34). The particulate sensor is characterised in that a portion of the support substrate (34) supporting the electrodes (40, 46) is covered by a hollow article (35), which is designed such that the portion of the carrier substrate (34) together with the hollow article (35) forms a cavity having at least one first opening (66) and at least one second opening (68), the first opening (66) lying closer to the corona-discharge electrode (40) than to the measuring electrode (46) and the second opening (68) lying closer to the measuring electrode (46) than to the corona-discharge electrode (40), and in that electronic functional components (58, 60, 62) of the particulate sensor (12) are provided on the support substrate (34).

IPC 8 full level

**G01N 15/06** (2006.01)

CPC (source: EP)

**G01N 15/0656** (2013.01); **G01N 2015/0046** (2013.01)

Citation (search report)

See references of WO 2020104112A1

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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