

Title (en)

GAS SENSOR HAVING A DEFLECTION SURFACE ON THE BASE HOUSING SIDE FOR THROTTLING THE FLUID FLOW

Title (de)

GASSENSOR MIT EINER GRUNDGEHÄUSESEITIGEN UMLENKFLÄCHE ZUR DROSSELUNG DER FLUIDSTRÖMUNG

Title (fr)

CAPTEUR DE GAZ PRÉSENTANT UNE SURFACE DE DÉVIATION CÔTÉ BOÎTIER DE BASE POUR LA RÉDUCTION DE L'ÉCOULEMENT DU FLUIDE

Publication

EP 3803364 A1 20210414 (DE)

Application

EP 19719775 A 20190411

Priority

- DE 102018208178 A 20180524
- EP 2019059287 W 20190411

Abstract (en)

[origin: WO2019223934A1] The invention relates to a gas sensor (10), particularly a particle sensor, for determining at least one state variable of a measuring gas, particularly the particle concentration in the exhaust of an internal combustion engine, having a base housing (12) and a protective tube module (14) arranged on the base housing, which comprises an inner protection tube (18) extending in a longitudinal direction (16), in which a sensor element (58) can be arranged, and an outer protection tube (26) enclosing the inner protection tube at least in sections, wherein measuring gas can flow in between the outer protection tube and the inner protection tube and can be deflected in a deflection region (37) in order to flow into the inner protection tube, wherein the deflection region comprises a deflection surface (42) formed by the base housing, and wherein there is a gap (50) between the deflection surface and the inner protection tube, through which the measuring gas can flow into the inner protection tube, wherein the deflection surface has the smallest distance to the inner protection tube in the longitudinal direction at the gap.

IPC 8 full level

G01N 27/407 (2006.01); **G01N 15/06** (2006.01)

CPC (source: EP KR)

G01N 1/2252 (2013.01 - EP KR); **G01N 15/0606** (2013.01 - EP KR); **G01N 15/0656** (2013.01 - EP KR); **G01N 27/4077** (2013.01 - EP KR); **G01N 2015/0007** (2013.01 - KR); **G01N 2015/0046** (2013.01 - EP KR)

Citation (search report)

See references of WO 2019223934A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2019223934 A1 20191128; DE 102018208178 A1 20191128; EP 3803364 A1 20210414; KR 20210013561 A 20210204

DOCDB simple family (application)

EP 2019059287 W 20190411; DE 102018208178 A 20180524; EP 19719775 A 20190411; KR 20207033501 A 20190411