

Title (en)

TEMPERATURE SENSOR AND METHOD FOR PRODUCING A TEMPERATURE SENSOR OF THIS KIND

Title (de)

TEMPERATURSENSOR UND VERFAHREN ZUR HERSTELLUNG EINES DERARTIGEN TEMPERATURSENSORS

Title (fr)

CAPTEUR DE TEMPÉRATURE ET PROCÉDÉ DE FABRICATION D'UN CAPTEUR DE TEMPÉRATURE DE CE TYPE

Publication

EP 4204781 A1 20230705 (DE)

Application

EP 21762446 A 20210812

Priority

- EP 20193018 A 20200827
- EP 2021072514 W 20210812

Abstract (en)

[origin: WO2022043084A1] The invention relates to a temperature sensor (10) comprising: - a substrate (15), formed from a metal element, in particular a metal foil, wherein the substrate (15) has a front side (16) and a rear side (17), - an insulation layer (20), which covers the front side (16) of the substrate (15) only in some portions, in such a way that an insulation-layer-free portion (25) is formed on the front side (16) of the substrate (15), and - a sensor structure (30), in particular a resistive sensor structure, which is formed on the insulation layer (20) and on the insulation-layer-free portion (25) of the front side (16) of the substrate (15), wherein the sensor structure (30) has at least two electrical contacting portions (31, 32), and a first contacting portion (31) is connected to the insulation-layer-free portion (25) of the front side (16) of the substrate (15), and a second contacting portion (32) is a first contact path (41) or is connected to a first contact path (41), wherein the first contact path (41) is preferably arranged on the insulation layer (20).

IPC 8 full level

G01K 7/16 (2006.01); **G01K 7/18** (2006.01); **H01C 7/10** (2006.01)

CPC (source: EP US)

G01K 7/16 (2013.01 - EP US); **G01K 7/18** (2013.01 - EP); **H01C 1/14** (2013.01 - EP US); **H01C 7/06** (2013.01 - EP US); **G01K 2007/163** (2013.01 - EP US); **H01C 7/10** (2013.01 - EP)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 3961170 A1 20220302; CN 116097072 A 20230509; EP 4204781 A1 20230705; JP 2023535769 A 20230821; KR 20230029955 A 20230303; US 2023360825 A1 20231109; WO 2022043084 A1 20220303

DOCDB simple family (application)

EP 20193018 A 20200827; CN 202180058827 A 20210812; EP 2021072514 W 20210812; EP 21762446 A 20210812; JP 2023505410 A 20210812; KR 20237003342 A 20210812; US 202118042534 A 20210812