

Title (en)

METHOD FOR PRODUCING A SENSOR WITH SEAMLESS EXTRUSION COATING OF A SENSOR ELEMENT

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES SENSORS MIT NAHTLOSER UMSPRITZUNG EINES SENSORELEMENTES

Title (fr)

PROCÉDÉ DE FABRICATION D'UN CAPTEUR AVEC ENVELOPPAGE SANS SOUDURE D'UN ÉLÉMENT CAPTEUR

Publication

**EP 2396629 A2 20111221 (DE)**

Application

**EP 10708741 A 20100209**

Priority

- EP 2010051527 W 20100209
- DE 102009008457 A 20090211

Abstract (en)

[origin: WO2010092029A2] The invention relates to a method for producing a sensor with seamless extrusion coating of a sensor element and a sensor produced by said method. According to the invention, a method for producing a sensor and sensor produced by said method in which the sensor element is enclosed in as sealed a manner as possible by the extrusion mass, thus permanently preventing the ingress of water, acids, oils or other aggressive materials to the region of the sensor in said sensor can be achieved using the following method steps: inserting the sensor element (2) into a mould cavity (1), mechanically fixing the sensor element (2) in the mould cavity (1) by means of at least one movable fixing element (5), engaging with the mould cavity (1) in a second region (4) of the mould cavity (1), injection of an extrusion mass (6) into the mould cavity (1), waiting until the extrusion mass (6) has hardened in a first region (3) of the mould cavity (1) to such a point that the hardened extrusion mass (6) in the first region (3) fixes the sensor element (2) in position, removal of the moving fixing element (5), before the extrusion mass (6) in the second region (4) hardens, such that the still liquid extrusion mass (6) at least partly fills the cavity left in the mould cavity (1) by the removed fixing element (5).

IPC 8 full level

**G01D 11/24** (2006.01)

CPC (source: EP US)

**B29C 45/14073** (2013.01 - EP US); **G01D 11/245** (2013.01 - EP US); **G01K 1/10** (2013.01 - EP US); **B29C 45/14639** (2013.01 - EP US)

Citation (search report)

See references of WO 2010092029A2

Designated contracting state (EPC)

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 SE SI SK SM TR

DOCDB simple family (publication)

**DE 102009008457 A1 20100812**; EP 2396629 A2 20111221; JP 2012517367 A 20120802; US 2012043131 A1 20120223; WO 2010092029 A2 20100819; WO 2010092029 A3 20110414

DOCDB simple family (application)

**DE 102009008457 A 20090211**; EP 10708741 A 20100209; EP 2010051527 W 20100209; JP 2011549532 A 20100209; US 201013148921 A 20100209