Title (en)
MAGNETICALLY CODED TEMPERATURE AND PRESSURE DETECTION APPARATUS

Title (de)
MAGNETISCH CODIERTE TEMPERATUR- UND DRUCKERFASSUNGSVORRICHTUNG

Title (fr)
APPAREIL DE DÉTECTION DE TEMPÉRATURE ET DE PRESSION À CODAGE MAGNÉTIQUE

Publication
EP 2823157 A1 20150114 (EN)

Application
EP 13709711 A 20130305

Priority
• US 201213411683 A 20120305
• US 2013029017 W 20130305

Abstract (en)
[origin: WO2013134203A1] An apparatus for measuring temperature comprises a housing and an actuator pressure sealed to the housing and having a shaft. The actuator is configured to be in pressure communication with a volume of gas or liquid. Upon a change in pressure, the actuator is displaced at least partially in the axial direction. A sensor detects axial displacement of a magnetically encoded target upon the change in pressure in the volume. A device for measuring pressure and temperature in an engine cylinder comprises a valve in pressure communication with an engine cylinder. The valve stem has a magnetic coding located adjacent a sensor. Axial displacement of the stem under cylinder pressure and temperature changes are detected.

IPC 8 full level
F01L 3/20 (2006.01); **F01L 1/46** (2006.01); **F01L 3/24** (2006.01)

CPC (source: EP)
F01L 1/46 (2013.01); **F01L 3/20** (2013.01); **F01L 3/24** (2013.01); F01L 2820/043 (2013.01); F01L 2820/044 (2013.01); F01L 2820/045 (2013.01)

Citation (search report)
See references of WO 2013134203A1

Citation (examination)
US 2011226047 A1 20110922 - STRETCH DALE ARDEN [US], et al

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 2013134203 A1 20130912; CN 103308243 A 20130918; CN 103308243 B 20170908; CN 203349947 U 20131218; EP 2823157 A1 20150114

DOCDB simple family (application)
US 2013029017 W 20130305; CN 201310138998 A 20130305; CN 201320203606 U 20130305; EP 13709711 A 20130305