

Title (en)

DEVICE FOR DETERMINING THE ABSOLUTE PRESSURE IN A HEAT ENGINE CYLINDER

Title (de)

VORRICHTUNG ZUR BESTIMMUNG DES ABSOLUTEN DRUCKS IN EINEM WÄRMEKRAFTMASCHINENZYLINDER

Title (fr)

DISPOSITIF DE DETERMINATION DE LA PRESSION ABSOLUE DANS UN CYLINDRE DE MOTEUR THERMIQUE

Publication

EP 2999868 B1 20170405 (FR)

Application

EP 14731707 A 20140522

Priority

- FR 1354586 A 20130522
- FR 2014051205 W 20140522

Abstract (en)

[origin: WO2014188133A1] The invention relates to a device for determining the absolute pressure in a cylinder (2) of a heat engine (1) provided with a cylinder head, said cylinder (2) comprising a movable piston (4), capable of delimiting a combustion chamber (6) having a variable volume, said device comprising at least one first sensor implanted in said cylinder head to measure a relative pressure in said combustion chamber (6) during an engine cycle. The main feature of a device according to the invention is that it comprises at least one second pressure sensor (7), of which the position in the cylinder (2) allows a measurement of the absolute pressure in the combustion chamber (6) only when the volume of said chamber (6) approaches a maximum value, the pressure measurements obtained with each first sensor and with each second sensor (7) being combined to determine the absolute pressure in the combustion chamber (6) during a complete engine cycle.

IPC 8 full level

F02B 77/08 (2006.01); **F02D 35/02** (2006.01)

CPC (source: EP)

F02D 35/023 (2013.01); **F02B 23/0672** (2013.01); **F02B 77/085** (2013.01); **F02D 2400/08** (2013.01)

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

DOCDB simple family (publication)

WO 2014188133 A1 20141127; EP 2999868 A1 20160330; EP 2999868 B1 20170405; FR 3005998 A1 20141128; FR 3005998 B1 20150515

DOCDB simple family (application)

FR 2014051205 W 20140522; EP 14731707 A 20140522; FR 1354586 A 20130522