

Title (en)

A METHOD OF AND A CONTROL SYSTEM FOR DETERMINING AN OFFSET RELATING TO CRANK ANGLE MEASUREMENT

Title (de)

VERFAHREN UND STEUERUNGSSYSTEM ZUR BESTIMMUNG EINES VERSATZES IN BEZUG AUF EINE KURBELWINKELMESSUNG

Title (fr)

PROCÉDÉ, ET SYSTÈME DE COMMANDE ASSOCIÉ, POUR DÉTERMINER UN DÉCALAGE PAR RAPPORT À UNE MESURE DE L'ANGLE DE VILEBREQUIN

Publication

EP 3320200 B1 20200513 (EN)

Application

EP 15788450 A 20150911

Priority

FI 2015050597 W 20150911

Abstract (en)

[origin: WO2017042423A1] Invention relates to method of determining an offset (38) relating to crank angle measurement in connection with a cylinder (12) of an internal combustion piston engine (10), in which method the engine (10) is rotated and it is refrained from fuel combustion in the cylinder, a reference value for the indicated mean effective pressure is determined, an integral value of indicated mean effective pressure in the cylinder is determined over a range of crank angle during all of the gas exchange valves of the cylinder are maintained closed, and wherein a dead center position of the piston is located with the range, a crank angle position offset value is determined based on the determined integral value of indicated mean effective pressure and the reference value for the indicated mean effective pressure.

IPC 8 full level

F02D 35/02 (2006.01); **F02D 41/00** (2006.01); **F02D 41/14** (2006.01); **F02D 41/24** (2006.01)

CPC (source: EP KR)

F02D 35/023 (2013.01 - EP KR); **F02D 41/009** (2013.01 - EP KR); **F02D 41/042** (2013.01 - KR); **F02D 41/1497** (2013.01 - KR); **F02D 41/2474** (2013.01 - EP KR); **F02D 41/042** (2013.01 - EP); **F02D 41/1497** (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

DOCDB simple family (publication)

WO 2017042423 A1 20170316; CN 107949692 A 20180420; CN 107949692 B 20201124; EP 3320200 A1 20180516; EP 3320200 B1 20200513; KR 102021249 B1 20190911; KR 20180033556 A 20180403

DOCDB simple family (application)

FI 2015050597 W 20150911; CN 201580082898 A 20150911; EP 15788450 A 20150911; KR 20187005300 A 20150911