

Title (en)

METHOD AND DEVICE FOR DETERMINING A PHASE POSITION BETWEEN A CRANKSHAFT AND A CAMSHAFT OF AN INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN UND VORRICHTUNG ZUM ERMITTELN EINER PHASENLAGE ZWISCHEN EINER KURBELWELLE UND EINER NOCKENWELLE EINER BRENNKRAFTMASCHINE

Title (fr)

PROCEDE ET DISPOSITIF POUR DETERMINER UNE POSITION DE PHASE ENTRE UN VILEBREQUIN ET UN ARBRE A CAMES D'UN MOTEUR A COMBUSTION INTERNE

Publication

EP 1664492 A1 20060607 (DE)

Application

EP 04766698 A 20040903

Priority

- EP 2004052033 W 20040903
- DE 10344773 A 20030926

Abstract (en)

[origin: WO2005031124A1] The invention relates to a method and device for determining a phase position between a crankshaft (21) and a camshaft (36) of an internal combustion engine. An internal combustion engine is provided with a crankshaft (21), a camshaft (36), at least one cylinder and an intake tract (11, 12, 13) to which gas inlet valves (30) are assigned that control the gas supply from the intake tract to the one or more cylinders and that are driven via the camshaft. The intake tract is associated with a pressure sensor (16) that detects an intake tube pressure (MAP) in a manifold (12) of the intake tract. The phase position (PH_MAP) is determined depending on the intake tube pressure detected. The inventive method and device allows to determine the phase position (PH_MAP) in a simple manner and without any additional sensor system.

IPC 1-7

F01L 1/34; **F02D 13/02**

IPC 8 full level

F01L 1/34 (2006.01); **F02D 13/02** (2006.01); **G01M 99/00** (2011.01)

CPC (source: EP US)

F01L 1/34 (2013.01 - EP US); **F02D 13/02** (2013.01 - EP US); **Y02T 10/12** (2013.01 - EP US)

Citation (search report)

See references of WO 2005031124A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 2005031124 A1 20050407; DE 10344773 B3 20050525; EP 1664492 A1 20060607; US 2007012096 A1 20070118; US 7302835 B2 20071204

DOCDB simple family (application)

EP 2004052033 W 20040903; DE 10344773 A 20030926; EP 04766698 A 20040903; US 57221206 A 20060317