

Title (en)

METHOD FOR PREDETERMINING A MOTION STATE OF A DRIVE SHAFT OF AN INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN ZUR VORAUSBESTIMMUNG EINES BEWEGUNGSZUSTANDES EINER ANTRIEBSWELLE EINER BRENNKRAFTMASCHINE

Title (fr)

PROCÉDÉ POUR PRÉVOIR UN ÉTAT DE MOUVEMENT D'UN ARBRE PRIMAIRE D'UN MOTEUR À COMBUSTION INTERNE

Publication

**EP 2534367 A2 20121219 (DE)**

Application

**EP 11703211 A 20110208**

Priority

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- EP 2011051813 W 20110208

Abstract (en)

[origin: WO2011098445A2] The invention relates to a method for predetermining a motion state (BZ<sub>n+1</sub>) of a drive shaft (222) of an internal combustion engine (210) on the basis of previous motion states (BZ<sub>n</sub>, BZ<sub>n-2</sub>) of the drive shaft (222), wherein properties (t<sub>n-2</sub>, ?<sub>n-2</sub>) allocated to a first previous motion state (BZ<sub>n-2</sub>) and properties (t<sub>n</sub>, ?<sub>n</sub>) allocated to a second previous motion state (BZ<sub>n</sub>) are used and the drive shaft (222) assumes periodically recurring angular positions (f<sub>n-2</sub>, f<sub>n</sub>, f<sub>n+2</sub>; f<sub>n-1</sub>, f<sub>n+1</sub>). The invention is characterized in that a future motion state (BZ<sub>n+1</sub>) and the properties (t<sub>n+1</sub>, f<sub>n+1</sub>) allocated thereto of the drive shaft (222) are determined in an angular position on the basis of the first evaluated previous motion state (BZ<sub>n-2</sub>) and the second evaluated previous motion state (BZ<sub>n</sub>), wherein the angular position (f<sub>n+1</sub>) of the determined future motion state (BZ<sub>n+1</sub>) of the drive shaft (222) is not equal to an angular position (f<sub>n-2</sub>, f<sub>n</sub>) of the first and second previous motion state (BZ<sub>n</sub>, BZ<sub>n-2</sub>).

IPC 8 full level

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Citation (search report)

See references of WO 2011098445A2

Citation (examination)

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