

Title (en)

METHOD FOR ADJUSTING THE ROTATIONAL ANGLE POSITION OF THE CAMSHAFT OF A RECIPROCATING INTERNAL COMBUSTION ENGINE IN RELATION TO THE CRANKSHAFT

Title (de)

VERFAHREN ZUM EINSTELLEN DER DREHWINKELLAGE DER NOCKENWELLE EINER HUBKOLBEN-VERBRENNUNGSMASCHINE RELATIV ZUR KURBELWELLE

Title (fr)

PROCEDE POUR REGLER LA POSITION ANGULAIRE DE ROTATION DE L'ARBRE A CAMES D'UN MOTEUR A COMBUSTION INTERNE A PISTON ALTERNATIF, PAR RAPPORT AU VILEBREQUIN

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Application

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Abstract (en)

[origin: WO2006039884A1] The invention relates to a method for adjusting the rotational angle position of the camshaft (3) of a reciprocating piston of an internal combustion engine in relation to the crankshaft (5). The crankshaft (5) is drivingly connected to the camshaft by means of an adjusting drive (1), which is embodied as a triple-shaft gear comprising a drive shaft which is fixed to the crankshaft, a drive shaft which is fixed to the camshaft and an adjusting shaft which is drivingly connected to an electromotor (4). A stop element is connected to the drive shaft and a counter-stop element is connected to the camshaft (3). The crankshaft rotational angle measuring signal and a position measuring signal for the rotational angle of the adjusting shaft are detected during the starting step of the internal combustion engine. A phase angle signal for the position of the rotational angle of the camshaft (3), based on the initial position, in relation to the camshaft (3) is determined with the aid of the rotational angle measuring signal, the position measuring signal and a gear variable of the triple-shaft gear. After the immobilisation of the crankshaft (5) and the camshaft (3) in a reference position in relation to each other and after the detection of the reference position, the phase angle in relation to the reference position is measured and is controlled to a target-value signal

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