

Title (en)

CAMSHAFT ADJUSTER WITH AN ELECTRICAL DRIVE

Title (de)

NOCKENWELLENVERSTELLER MIT ELEKTRISCHEM ANTRIEB

Title (fr)

DISPOSITIF DE REGLAGE D'ARBRE A CAMES A ENTRAINEMENT ELECTRIQUE

Publication

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Application

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Abstract (en)

[origin: WO03095803A1] The invention relates to a device for releasably connecting and adjusting the camshaft (3) and the crankshaft of an internal combustion engine. The inventive device comprises a setting gear (1) configured as a three shaft gear, which has a drive shaft (4) connected to the crankshaft, an output shaft (5) connected to the camshaft and an adjusting shaft (6) connected to an electrical adjusting motor (2), wherein a stationary transmission i0, which has a base or emergency running position, is present between the drive and outputs shafts (4, 5) when the adjusting shaft (6) is idle, the level of said stationary transmission determining the gear type (positive or negative gear) and the direction of adjustment of the camshaft (3). Functional safety of the device is improved due to the fact that the base or emergency running position of the camshaft (3) can be reached and maintained in case of outage of the adjusting motor (2) and/or the control thereof by a slow-down or arrest of the adjusting shaft (6), simultaneous rotation of the drive shaft (4) as well by an appropriate stationary transmission i0.

IPC 1-7

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IPC 8 full level

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Citation (search report)

See references of WO 03095803A1

Cited by

DE102012207318B4; DE102012207318A1; WO2013164129A1; US9334762B2

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