Title (en)

ARRANGEMENT FOR ADJUSTING THE RELATIVE ANGLE OF ROTATION BETWEEN A CAMSHAFT AND A CRANKSHAFT

Title (de)

ANORDNUNG ZUM VERSTELLEN DER DREHWINKELRELATION ZWISCHEN NOCKENWELLE UND KURBELWELLE

Title (fr)

SYSTEME DE REGLAGE DU RAPPORT D'ANGLE DE ROTATION ENTRE UN ARBRE A CAMES ET UN VILEBREQUIN

Publication

EP 1573175 A1 20050914 (DE)

Application

EP 03753275 A 20030906

Priority

- DE 0302965 W 20030906
- DE 10259133 A 20021218

Abstract (en)

[origin: WO2004057161A1] Disclosed is an arrangement for adjusting the relative angle of rotation between a camshaft (5) and a crankshaft. Such an arrangement requires a lot of parts, some of which require different operating conditions. The novel arrangement is designed in a modular manner, i.e. rather than being disposed inside a common housing, the components of the arrangement are separately designed according to the function or operating conditions, for example, or are shared by other control devices or regulating devices. The invention is particularly advantageous in that such arrangements can be produced in a reduced size and at a lower cost. Such arrangement are needed to adjust valve play in internal combustion engines.

IPC 1-7

F01L 1/34; F01L 1/352

IPC 8 full level

F01L 1/34 (2006.01); **F01L 1/352** (2006.01); **F02D 41/26** (2006.01)

CPC (source: EP US)

F01L 1/34 (2013.01 - EP US); **F01L 1/352** (2013.01 - EP US); **F02D 41/266** (2013.01 - EP US); F01L 2201/00 (2013.01 - EP US); F01L 2800/00 (2013.01 - EP US)

Citation (search report)

See references of WO 2004057161A1

Designated contracting state (EPC)

DE ES FR GB IT SE

DOCDB simple family (publication)

DE 10259133 A1 20040701; DE 50309500 D1 20080508; EP 1573175 A1 20050914; EP 1573175 B1 20080326; ES 2302940 T3 20080801; US 2005252469 A1 20051117; US 7146947 B2 20061212; WO 2004057161 A1 20040708

DOCDB simple family (application)

DE 10259133 A 20021218; DE 0302965 W 20030906; DE 50309500 T 20030906; EP 03753275 A 20030906; ES 03753275 T 20030906; US 15681605 A 20050620