

Title (en)

CAMSHAFT ADJUSTER FOR AN INTERNAL COMBUSTION ENGINE

Title (de)

NOCKENWELLENVERSTELLER FÜR EINE BRENNKRAFTMASCHINE

Title (fr)

DISPOSITIF DE REGLAGE D'ARBRE A CAMES POUR MOTEUR A COMBUSTION INTERNE

Publication

EP 1485581 A1 20041215 (DE)

Application

EP 03744333 A 20030221

Priority

- DE 10211468 A 20020315
- EP 0301772 W 20030221

Abstract (en)

[origin: WO03078804A1] The invention relates to camshaft adjuster for an internal combustion engine, comprising a hydraulic control piston, which is used to control an adjusting unit for adjusting the angle of a camshaft. The invention is characterised in that the control piston is configured in a separate guide casing.

IPC 1-7

F01L 1/344; **F01L 13/00**

IPC 8 full level

F01L 1/34 (2006.01); **F01L 1/344** (2006.01)

CPC (source: EP US)

F01L 1/34 (2013.01 - EP US); **F01L 1/34406** (2013.01 - EP US); **F01L 2001/34426** (2013.01 - EP US); **F01L 2001/3443** (2013.01 - EP US); **F01L 2001/34433** (2013.01 - EP US)

Citation (search report)

See references of WO 03078804A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)

WO 03078804 A1 20030925; DE 10211468 A1 20030925; DE 50302961 D1 20060524; EP 1485581 A1 20041215; EP 1485581 B1 20060412; JP 2005530078 A 20051006; US 2005051123 A1 20050310

DOCDB simple family (application)

EP 0301772 W 20030221; DE 10211468 A 20020315; DE 50302961 T 20030221; EP 03744333 A 20030221; JP 2003576783 A 20030221; US 94094304 A 20040914