

Title (en)

DEVICE FOR ADJUSTING THE ROTATION ANGLE OF THE CAMSHAFT OF AN INTERNAL COMBUSTION ENGINE IN RELATION TO A DRIVE WHEEL

Title (de)

VORRICHTUNG ZUR RELATIVEN DREHWINKELVERSTELLUNG EINER NOCKENWELLE EINER BRENNKRAFTMASCHINE ZU EINEM ANTRIEBSRAD

Title (fr)

DISPOSITIF DE REGLAGE DE L'ANGLE DE ROTATION DE L'ARBRE A CAMES D'UN MOTEUR A COMBUSTION INTERNE PAR RAPPORT A UNE ROUE D'ENTRAINEMENT

Publication

**EP 1336031 B1 20040421 (DE)**

Application

**EP 01984686 A 20011024**

Priority

- DE 10055334 A 20001108
- EP 0112262 W 20011024

Abstract (en)

[origin: DE10055334A1] The device has an adjustment unit (6) that is in torsion with a cam-shaft (2) connected inner section (4) with a at least one pressure chamber (22a) in the adjustment unit and at least pressure chamber guided hydraulic channel (80, 82) being radially or axially adjustable. The rotation angle bearing of the cam-shaft can be altered in relation to the drive-wheel, whilst there is a locking element (66) in the adjustment unit that is catchable with the inner section. The locking element is arranged with the pressure chamber guided hydraulic channel and is first released in an unlocked position. The adjustment unit may have a carriage wheel (12) that is divided around the circumference into mounts (14a to 14c) and from which angular-movable mounts or vanes (8a to 8c) of the inner section may be divided in two pressure chambers (22a to 22c) and (24a to 24c).

IPC 1-7

**F01L 1/344**

IPC 8 full level

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

CPC (source: EP US)

**F01L 1/3442** (2013.01 - EP US)

Cited by

DE102010012652B4; US4859451A; DE102010012652A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**DE 10055334 A1 20020523**; **DE 10055334 C2 20031030**; DE 50102082 D1 20040527; EP 1336031 A1 20030820; EP 1336031 B1 20040421; JP 2004514818 A 20040520; JP 4113430 B2 20080709; US 2003154944 A1 20030821; US 6742486 B2 20040601; WO 0242613 A1 20020530

DOCDB simple family (application)

**DE 10055334 A 20001108**; DE 50102082 T 20011024; EP 0112262 W 20011024; EP 01984686 A 20011024; JP 2002544518 A 20011024; US 16967202 A 20021210