

Title (en)

Camshaft phaser comprising a hydraulic valve

Title (de)

Schwenkmotorversteller mit einem Hydraulikventil

Title (fr)

Dispositif de réglage d'un arbre à cames avec une soupape hydraulique

Publication

EP 2375014 B1 20130710 (DE)

Application

EP 11157216 A 20110307

Priority

- DE 102010014500 A 20100410
- DE 102010045358 A 20100914

Abstract (en)

[origin: EP2375014A1] The adjuster (4) has a hydraulic valve (3) comprising two working ports (A, B) with a standard opening, and another opening for utilizing pressure peaks due to camshaft alternating torques. Hydraulic pressure is guided from a supply port (P) to one of the two working ports to be loaded, while another of the working ports to be relieved of pressure is guided to a tank port. A switch position (16) of the hydraulic valve is proportionally controlled, and the pressure peaks of the working port to be relieved of pressure are blocked relative to the working port to be loaded.

IPC 8 full level

F01L 1/344 (2006.01)

CPC (source: EP US)

F01L 1/3442 (2013.01 - EP US); **F01L 2001/34426** (2013.01 - EP US); **F01L 2001/3443** (2013.01 - EP US); **F01L 2820/01** (2013.01 - EP US)

Cited by

EP2796674A1; DE102017106938A1; DE102013104051B4; CN112302752A; CN104110286A; DE102013104031B4; EP3399168A1; US10502128B2; US9322331B2; EP3530892A1; US11300017B2; DE102013104051A1; US9322419B2; DE102013104031A1; EP2905434B1; DE102010061337A1; DE102019101115A1; DE102019101159A1; US11111826B2; EP2796673A1; US9194506B2; EP3530891A1

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DOCDB simple family (publication)

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EP 11157216 A 20110307; CN 201110083118 A 20110402; DE 102010045358 A 20100914; JP 2011082743 A 20110404; US 201113074373 A 20110329