

Title (en)

Camshaft adjuster with a pressure storage unit

Title (de)

Nockenwellenversteller mit einem Druckspeicher

Title (fr)

Dispositif de réglage d'arbres à came à l'aide d'un accumulateur de pression

Publication

EP 2487339 A3 20130123 (DE)

Application

EP 11191381 A 20111130

Priority

DE 102011003991 A 20110211

Abstract (en)

[origin: EP2487339A2] The adjuster (1) has a stator (2) and a rotor (3) including a set of radially orientated vanes (5), where the stator and rotor are rotated relative to each other. The vanes of the rotor and stator form working chambers (A, B) that act opposite to each other, where the working chambers are supplied with a hydraulic medium to rotate the rotor relative to the stator. A pressure accumulator (6) stores the medium and includes a control vane (11) i.e. sheet metal plate, where the vanes of the rotor or stator are projected around the control vane. A control spring (19) acts on the control vane.

IPC 8 full level

F01L 1/344 (2006.01)

CPC (source: EP US)

F01L 1/3442 (2013.01 - EP US)

Citation (search report)

- [A] EP 2267282 A1 20101229 - SHW AUTOMOTIVE [DE]
- [A] DE 102009034804 A1 20110127 - SCHAEFFLER TECHNOLOGIES GMBH [DE]
- [A] WO 2008140897 A1 20081120 - BORGWARNER INC [US], et al
- [A] DE 102009035815 A1 20110203 - SCHAEFFLER TECHNOLOGIES GMBH [DE]
- [A] DE 3929621 A1 19910307 - BAYERISCHE MOTOREN WERKE AG [DE]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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US 2012204822 A1 20120816; US 8534248 B2 20130917

DOCDB simple family (application)

EP 11191381 A 20111130; DE 102011003991 A 20110211; US 201213368418 A 20120208