

Title (en)

Camshaft adjuster

Title (de)

Nockenwellenversteller

Title (fr)

Dispositif de réglage d'arbres à came

Publication

EP 2604817 A1 20130619 (DE)

Application

EP 12181619 A 20120824

Priority

DE 102011088295 A 20111212

Abstract (en)

The camshaft adjuster (1) has drive element (2) and output element (3) that are rotatable relative to each other. A spring (4) is supported between the drive element and output element by a spring support (5). A lubricant reservoir (6) is provided between the spring wire (10) and spring support, to lubricate the contact between spring wire and spring support.

Abstract (de)

Vorgeschlagen ein Nockenwellenversteller (1), welcher eine Feder (4) aufweist, die mittels Federlagerungen (5) gelagert ist, wobei diese Federlagerungen (5) Schmiermitteldepots (6) zur Schmierung des Kontaktes zwischen Federdraht (10) und Federlagerung (5) haben.

IPC 8 full level

F01L 1/344 (2006.01); **F01L 1/46** (2006.01)

CPC (source: EP US)

F01L 1/3442 (2013.01 - EP US); **F01L 1/46** (2013.01 - US)

Citation (applicant)

DE 102006002993 A1 20070809 - SCHAEFFLER KG [DE]

Citation (search report)

- [A] US 2005028773 A1 20050210 - KOMAKI YUSAKU [JP]
- [A] EP 2184450 A1 20100512 - SCHAEFFLER KG [DE]
- [A] WO 0161154 A1 20010823 - SCHAEFFLER WÄELZLAGER OHG [DE], et al
- [A] EP 2166199 A1 20100324 - HYDRAULIK RING GMBH [DE]

Cited by

DE102013216182A1; WO2015021971A1

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)

EP 2604817 A1 20130619; EP 2604817 B1 20141015; CN 103161540 A 20130619; CN 103161540 B 20170721;
DE 102011088295 A1 20130613; US 2013180482 A1 20130718; US 8925507 B2 20150106

DOCDB simple family (application)

EP 12181619 A 20120824; CN 201210537372 A 20121212; DE 102011088295 A 20111212; US 201213711900 A 20121212