

Title (en)
CAMSHAFT ADJUSTING MEANS

Title (de)
NOCKENWELLENVERSTELLUNG

Title (fr)
RÉGLAGE D'ARBRE À CAMES

Publication
EP 2771550 A1 20140903 (DE)

Application
EP 12770026 A 20120919

Priority
• DE 102011117026 A 20111027
• EP 2012068453 W 20120919

Abstract (en)
[origin: WO2013060532A1] The invention relates to a camshaft adjusting means for an internal combustion engine, consisting of an adjusting gear mechanism which is configured as a three-shaft gear mechanism, with a drive side, into which the drive moment for the camshaft (1) is introduced, a driven side which is coupled fixedly to the camshaft (1) so as to rotate with it, and an adjusting shaft (8) which is coupled to a drive motor (7) and via which a moment which brings about the relative rotation from the drive side to the driven side is introduced into the adjusting gear mechanism, wherein the adjusting gear mechanism has in each case one bearing point (6, 2) on the drive side and the driven side thereof and is mounted via said bearing points (6, 2) with respect to the component which carries the camshaft (1), in particular the cylinder head of the internal combustion engine, wherein the adjusting shaft (8) is guided through one of the bearing points (6) into the adjusting gear mechanism.

IPC 8 full level
F01L 1/344 (2006.01); **F01L 1/352** (2006.01)

CPC (source: EP US)
F01L 1/34403 (2013.01 - EP US); **F01L 1/352** (2013.01 - EP US)

Citation (search report)
See references of WO 2013060532A1

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

DOCDB simple family (publication)
DE 102011117026 A1 20130502; **DE 102011117026 B4 20150108**; CN 103906897 A 20140702; CN 103906897 B 20160824; EP 2771550 A1 20140903; JP 2014532826 A 20141208; KR 20140078701 A 20140625; US 2014290607 A1 20141002; US 9109474 B2 20150818; WO 2013060532 A1 20130502

DOCDB simple family (application)
DE 102011117026 A 20111027; CN 201280053141 A 20120919; EP 12770026 A 20120919; EP 2012068453 W 20120919; JP 2014537539 A 20120919; KR 20147010859 A 20120919; US 201214348991 A 20120919