

Title (en)

OSCILLATING-CAMSHAFT PHASER HAVING A HYDRAULIC VALVE

Title (de)

SCHWENKMOTORNockenwellenVERSTELLER MIT EINEM HYDRAULIKVENTIL

Title (fr)

DÉPHASEUR OSCILLANT DOTÉ D'UNE SOUPAPE HYDRAULIQUE POUR ARBREÀ CAMES

Publication

EP 2905434 B1 20170927 (DE)

Application

EP 14198646 A 20141217

Priority

US 201414174594 A 20140206

Abstract (en)

[origin: US2015218976A1] An oscillating-motor camshaft adjuster which provides that, through software, camshaft alternating torque is utilized only in conditions where the torque is adequate and/or it is important to reduce flow consumption. If there is two step lift and the camshaft alternating torque is not adequate in low lift, software can position the spool to utilize some camshaft alternating torque while also tanking oil to speed up the phasing.

IPC 8 full level

F01L 1/344 (2006.01)

CPC (source: CN EP KR US)

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

Citation (examination)

EP 2375014 A1 20111012 - HYDRAULIK RING GMBH [DE]

Cited by

FR3083569A1; CN112352091A; EP3530892A1; EP3530891A1; US11300017B2; US11111826B2; WO2020007709A1

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)

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DOCDB simple family (application)

EP 14198646 A 20141217; CN 201510044130 A 20150128; JP 2015020768 A 20150204; KR 20150013969 A 20150129; US 201414174594 A 20140206