

Title (en)

Device for adjusting a rotation angle position of nested camshafts relative to one another

Title (de)

Vorrichtung zur Verstellung der relativen Drehwinkelposition geschachtelter Nockenwellen

Title (fr)

Dispositif de réglage de la position relative de l'angle de rotation d'un arbre à came imbriqué

Publication

EP 2527607 A3 20131218 (DE)

Application

EP 12168982 A 20120522

Priority

DE 102011076652 A 20110527

Abstract (en)

[origin: EP2527607A2] The device has a shaft arrangement with two camshafts (1,2), where one of the camshafts is extended in an axial shaft section. The camshafts are rotated relative to each other. A phase adjuster is mounted at an axial end of the shaft arrangement as mounting unit. A stator (3) is connected with the former camshaft in rotary fixed manner. A rotor (9) is rotary angular adjusted relative to the stator and is rotary driven from the stator. A connecting device fixes the phase shifter at the shaft arrangement in relation to the axial direction. An independent claim is included for a phase adjuster for adjusting angular position, which has an engagement surface with teeth.

IPC 8 full level

F01L 1/344 (2006.01); **F01L 1/047** (2006.01); **F01L 13/00** (2006.01)

CPC (source: EP)

F01L 1/34413 (2013.01); **F01L 1/3442** (2013.01); **F01L 13/0057** (2013.01); **F01L 2001/0473** (2013.01)

Citation (search report)

- [X] DE 102009041873 A1 20100415 - SCHAEFFLER KG [DE]
- [X] GB 2433974 A 20070711 - MECHADYNE PLC [GB]
- [X] DE 102008019746 A1 20091022 - SCHAEFFLER KG [DE]
- [X] GB 2467333 A 20100804 - MECHADYNE PLC [GB]
- [X] GB 2369175 A 20020522 - MECHADYNE PLC [GB]

Cited by

DE102014107475A1; WO2020070597A1; EP3633157A1; CN108026795A; US10683781B2; US9797277B2; US9797278B2; WO2014108116A1; WO2017025356A1; WO2015150175A1; US10352204B2; DE102013200402B4; US10208632B2

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 2527607 A2 20121128; EP 2527607 A3 20131218; EP 2527607 B1 20150401; DE 102011076652 A1 20121129; DE 102011076652 B4 20170601; HU E025808 T2 20160428; PL 2527607 T3 20151030

DOCDB simple family (application)

EP 12168982 A 20120522; DE 102011076652 A 20110527; HU E12168982 A 20120522; PL 12168982 T 20120522