

Title (en)  
ASSEMBLY COMPRISING A CAMSHAFT PHASING DEVICE

Title (de)  
BAUSATZ MIT EINEM NOCKENWELLENVERSTELLER

Title (fr)  
ENSEMBLE COMPRENANT UN DÉPHASEUR D'ARBRE À CAMES

Publication  
**EP 3688288 B1 20210811 (DE)**

Application  
**EP 18783363 A 20180914**

Priority  
• DE 102017122425 A 20170927  
• EP 2018074859 W 20180914

Abstract (en)  
[origin: WO2019063315A1] The invention relates to a kit (1), comprising a camshaft phaser (2), in which a central valve (3) is provided, which distributes a pressure fluid, and comprising an actuator (4), which controls the central valve (3). The camshaft phaser (2) is or can be driven by means of a dry-running traction mechanism drive and has a rotor (6) rotatably mounted in a stator (5). A pressure fluid distribution chamber (7) is provided between the camshaft phaser (2) and the actuator (4), which pressure fluid distribution chamber can be filled with pressure fluid via the central valve (3) and is connected to an armature chamber (8) of the actuator (4) and is sealed off from the environment. The actuator (4) comprises at least one armature (16) movable by means of a coil (18), one pole core (27) and one pole tube (28) as a pole tube assembly (17). According to the invention, the pressure fluid distribution chamber (7) is sealed by means of an integral bond and/or frictional and interlocking connection of the actuator or of one or more actuator components to the central valve.

IPC 8 full level  
**F01L 1/02** (2006.01); **F01L 1/344** (2006.01)

CPC (source: EP US)  
**F01L 1/024** (2013.01 - EP); **F01L 1/3442** (2013.01 - EP US); **F01L 2001/3443** (2013.01 - EP); **F01L 2001/34433** (2013.01 - EP US); **F01L 2001/34479** (2013.01 - EP); **F01L 2303/00** (2020.05 - US)

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 102017122425 A1 20190328**; CN 110832171 A 20200221; CN 110832171 B 20210910; EP 3688288 A1 20200805; EP 3688288 B1 20210811; US 10781728 B2 20200922; US 2020208545 A1 20200702; WO 2019063315 A1 20190404

DOCDB simple family (application)  
**DE 102017122425 A 20170927**; CN 201880045115 A 20180914; EP 18783363 A 20180914; EP 2018074859 W 20180914; US 202016794875 A 20200219