

Title (en)
ENGINE WITH A CONCENTRIC CAMSHAFT

Title (de)
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Title (fr)
MOTEUR COMPORTANT UN ARBRE À CAMES CONCENTRIQUE

Publication
EP 3467274 A1 20190410 (EN)

Application
EP 17195055 A 20171005

Priority
EP 17195055 A 20171005

Abstract (en)
An engine with an adjustable camshaft assembly (50) is disclosed having first (56) and second (58) groups of cam lobes and an actuator ('10) for varying the phase of at least one of the groups of cam lobes (56,58) relative to a crankshaft of the engine. The camshaft assembly (50) is of the type known as a concentric camshaft and the actuator ('10) comprises a drive member ('14a, '14b) and one or more driven members ('20) that are rotatable relative to the drive member, the groups of cam lobes of the adjustable camshaft assembly each being connected for rotation with a respective one of the drive member and the driven member(s) of the actuator. In the invention, the actuator ('10) is capable of being mounted on the camshaft assembly (50) to establish a driving connection between the outer tube (52) and inner shaft (54) of the camshaft assembly (50) and the respective members ('14a,'14b;'20) of the actuator ('10), after the camshaft assembly has been fitted to the engine, and an annular oil seal ('90) is mounted to the engine around the camshaft assembly (50) to engage slidably with a surface of the actuator ('10) to retain oil within a compartment of the engine housing the camshaft assembly.

IPC 8 full level
F01L 1/344 (2006.01); **F01L 1/047** (2006.01)

CPC (source: EP)
F01L 1/344 (2013.01); **F01L 2001/0473** (2013.01)

Citation (applicant)
EP 17168117 A 20170426

Citation (search report)
• [XAI] DE 102008019745 A1 20091022 - SCHAEFFLER KG [DE]
• [XI] WO 2017140351 A1 20170824 - VOLVO TRUCK CORP [SE]
• [A] DE 102008023066 A1 20091112 - HYDRAULIK RING GMBH [DE], et al
• [A] DE 102008032412 A1 20100114 - HYDRAULIK RING GMBH [DE]

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 3467274 A1 20190410; WO 2019069265 A1 20190411

DOCDB simple family (application)
EP 17195055 A 20171005; IB 2018057717 W 20181004