

Title (en)
CAMSHAFT ASSEMBLY AND CAMSHAFT ARRANGEMENT

Title (de)
NOCKENWELLENBAUGRUPPE SOWIE NOCKENWELLENANORDNUNG

Title (fr)
MODULE D'ARBRE À CAMES ET DISPOSITIF D'ARBRE À CAMES

Publication
EP 3033499 B1 20170510 (DE)

Application
EP 14743994 A 20140723

Priority
• DE 102013108770 A 20130813
• EP 2014002011 W 20140723

Abstract (en)
[origin: WO2015022050A1] The invention relates to a camshaft assembly having a camshaft housing, and having a camshaft (1) that is rotatably mounted about a longitudinal direction (x) in the camshaft housing, wherein the camshaft (1) has a hollow shaft section having at least one radial inlet opening (5) for discharging a gas through the hollow shaft section, and wherein in the area of the at least one radial inlet opening (5), a splash protection device (6) is arranged. According to the invention, the splash protection device (6) is fixedly arranged on the housing such that the camshaft (1) can be rotated with respect to the splash protection device (6). The invention further relates to a camshaft arrangement comprising a camshaft (1) and a splash protection device (6).

IPC 8 full level
F01L 1/047 (2006.01); **F01M 13/00** (2006.01); **F01M 13/04** (2006.01)

CPC (source: EP)
F01L 1/047 (2013.01); **F01M 13/0416** (2013.01); **F01L 2001/0475** (2013.01); **F01M 2013/0072** (2013.01); **F01M 2013/0427** (2013.01); **F01M 2013/0438** (2013.01)

Citation (opposition)
Opponent : MAHLE International GmbH,
• US 7219629 B2 20070522 - MIYAKE HITOMI [JP], et al
• US 4651704 A 19870324 - SEKIGUCHI NORIO [JP]
• EP 1845238 A2 20071017 - MAHLE INT GMBH [DE]
• FR 2933626 A1 20100115 - FILTRAUTO [FR]
• JP 2504073 B2 19960605
• DE 102005022254 A1 20061130 - MAHLE INT GMBH [DE]
• DE 102011000458 A1 20120802 - THYSSENKRUPP PRESTA TECCT AG [LI]
• JP H04127807 U 19921120
• DE 102009012402 A1 20100923 - THYSSENKRUPP PRESTA TECCT AG [LI]
• JP S57172107 U 19821029
• CN 101270683 A 20080924 - CHONGQING CHANGAN AUTOMOBILE [CN]
• US 2012204723 A1 20120816 - ANGST ROBERT [DE]
• US 5114446 A 19920519 - GIERSDORF RODNEY L [US], et al

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)
WO 2015022050 A1 20150219; DE 102013108770 A1 20150219; EP 3033499 A1 20160622; EP 3033499 B1 20170510

DOCDB simple family (application)
EP 2014002011 W 20140723; DE 102013108770 A 20130813; EP 14743994 A 20140723