

Title (en)

CAMSHAFT HAVING AT LEAST ONE AXIALLY FIXED SLIDING ELEMENT

Title (de)

NOCKENWELLE MIT WENIGSTENS EINEM AXIAL FIXIERTEN SCHIEBEELEMENT

Title (fr)

ARBRE À CAMES COMPRENANT AU MOINS UN ÉLÉMENT COULISSANT FIXÉ AXIALEMENT

Publication

EP 3215722 B1 20181010 (DE)

Application

EP 15747148 A 20150804

Priority

- DE 102014116195 A 20141106
- EP 2015067877 W 20150804

Abstract (en)

[origin: WO2016071017A1] The invention relates to a camshaft (1) and a method for producing the camshaft (1) for a multiple-cylinder internal combustion engine with sliding elements (10) having at least two cam elements (11.1, 11.2) for selective control of valves of the internal combustion engine, and with a splined shaft (14) which extends in an axial direction (13) and on which the sliding elements (10) are received, and wherein the sliding elements (10) have an internal spline system (15) which interacts with an external spline system (16) of the splined shaft (14), with the result that the sliding elements (10) are seated fixedly on the splined shaft (14) so as to rotate with it, and wherein at least one sliding element (10) is received on the splined shaft (14) in an axially displaceable manner. According to the invention, at least one of the sliding elements (10) has a positively locking connection which is configured in the axial direction (13) for axial fixing to the splined shaft (14), which positively locking connection is produced by way of at least one caulked connection (17) between the sliding element (10) and the splined shaft (14).

IPC 8 full level

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

CPC (source: CN EP US)

F01L 1/047 (2013.01 - CN EP US); **F01L 13/0036** (2013.01 - CN EP US); **F01L 2001/0471** (2013.01 - CN EP US); **F01L 2001/0473** (2013.01 - CN EP US); **F01L 2013/0052** (2013.01 - CN EP 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)

WO 2016071017 A1 20160512; CN 107075979 A 20170818; CN 107075979 B 20190820; DE 102014116195 A1 20160512; EP 3215722 A1 20170913; EP 3215722 B1 20181010; JP 2018501423 A 20180118; JP 6498763 B2 20190410; US 10047646 B2 20180814; US 2017321578 A1 20171109

DOCDB simple family (application)

EP 2015067877 W 20150804; CN 201580060400 A 20150804; DE 102014116195 A 20141106; EP 15747148 A 20150804; JP 2017523867 A 20150804; US 201515524295 A 20150804