

Title (en)

SINTERED STATOR-COVER UNIT AND CAMSHAFT ADJUSTER

Title (de)

GESINTERTE STATOR-DECKEL-EINHEIT UND NOCKENWELLENVERSTELLER

Title (fr)

UNITÉ STATOR-COUCVERCLE FRITTÉE ET DÉPHASEUR D'ARBRE À CAMES

Publication

EP 2536924 B1 20150318 (DE)

Application

EP 11701221 A 20110117

Priority

- DE 102010008005 A 20100215
- EP 2011050525 W 20110117

Abstract (en)

[origin: WO2011098321A1] The invention relates to a stator-cover unit (1) for a camshaft adjuster (31), which is produced in one piece from a sintered material, comprising a stator (3) and a locking cover (5) which has a slot (17) for rotationally locking a rotor (33). According to the invention, the sintered material has at least in the region of the slot (17) a Vickers hardness of 400 HV to 850 HV. The invention further relates to a camshaft adjuster (31) having such a stator-cover unit (1) with the aforementioned properties, in which a rotor (33) having a number of radially outwardly extending rotor vanes (35) is positioned. The stator-cover unit (1) is simple to produce. A separate insertion part for the slot (17) is not required.

IPC 8 full level

F01L 1/344 (2006.01)

CPC (source: EP US)

F01L 1/3442 (2013.01 - EP US); **F01L 2001/34469** (2013.01 - EP US); **F01L 2301/00** (2020.05 - EP US); **F01L 2303/00** (2020.05 - EP US); **F01L 2820/01** (2013.01 - EP US); **Y10T 74/2191** (2015.01 - 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 2011098321 A1 20110818; BR 112012020163 A2 20190924; CN 102762821 A 20121031; CN 102762821 B 20141224; DE 102010008005 A1 20110818; EP 2536924 A1 20121226; EP 2536924 B1 20150318; US 2012298061 A1 20121129; US 8887677 B2 20141118

DOCDB simple family (application)

EP 2011050525 W 20110117; BR 112012020163 A 20110117; CN 201180009608 A 20110117; DE 102010008005 A 20100215; EP 11701221 A 20110117; US 201113576055 A 20110117