

Title (en)  
METHOD FOR THE COMPENSATION OF TOLERANCES BETWEEN A STATOR AND A ROTOR OF A PHASE SHIFTER FOR AN ADJUSTABLE CAMSHAFT

Title (de)  
VERFAHREN ZUM AUSGLEICH VON TOLERANZEN ZWISCHEN EINEM STATOR UND EINEM ROTOR EINES PHASENSTELLERS FÜR EINE VERSTELLBARE NOCKENWELLE

Title (fr)  
PROCÉDÉ POUR LA COMPENSATION DE TOLÉRANCES ENTRE UN STATOR ET UN ROTOR D'UN DÉPHASEUR POUR UN ARBRE À CAMES RÉGLABLE

Publication  
**EP 3317498 A1 20180509 (DE)**

Application  
**EP 16733061 A 20160627**

Priority  
• DE 102015110679 A 20150702  
• EP 2016064853 W 20160627

Abstract (en)  
[origin: WO2017001338A1] The present invention relates to a method for adjusting a gap (5) between a stator (10) and a rotor (11) of a phase shifter (1) for an adjustable camshaft (12), the stator (10) being connected to an outer shaft (13) and the rotor (11) to an inner shaft (14) of the adjustable camshaft (12), so that the phase position of the inner shaft (14) is adjusted relative to the phase position of the outer shaft (13) when the rotor (11) is rotated in the stator (10), and the gap (5) being formed between at least one sliding surface (15) on the stator (10) and at least one sliding surface (16) on the rotor (11). The method according to the invention comprises at least the following steps: coating at least one of the sliding surfaces (15, 16) with a gradually removable coating (17); assembling the phase shifter (1), comprising joining the rotor (11) in the stator (10); activating the phase shifter (1) by rotating the rotor (11) in the stator (10) and adjusting the gap (5) between the stator (10) and the rotor (11) by abrading at least a partial thickness of the coating (17). The invention further relates to a phase shifter (1) which comprises such a coating (17).

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

CPC (source: EP US)  
**F01L 1/34413** (2013.01 - EP US); **F01L 1/3442** (2013.01 - EP US); **F01L 2001/0473** (2013.01 - EP US); **F01L 2001/34479** (2013.01 - US); **F01L 2301/00** (2020.05 - EP US); **F01L 2303/00** (2020.05 - EP US); **F01L 2810/02** (2013.01 - EP US)

Citation (examination)  
EP 1544419 A1 20050622 - INA SCHAEFFLER KG [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)  
**WO 2017001338 A1 20170105**; CN 107923271 A 20180417; DE 102015110679 A1 20170105; DE 102015110679 B4 20210401; EP 3317498 A1 20180509; US 2018298789 A1 20181018

DOCDB simple family (application)  
**EP 2016064853 W 20160627**; CN 201680038450 A 20160627; DE 102015110679 A 20150702; EP 16733061 A 20160627; US 201615737898 A 20160627