

Title (en)
ELECTROMAGNETIC CONTROL DEVICE, IN PARTICULAR FOR ADJUSTING CAMSHAFTS OF AN INTERNAL COMBUSTION ENGINE

Title (de)
ELEKTROMAGNETISCHE STELLVORRICHTUNG INSBESONDERE ZUM VERSTELLEN VON NOCKENWELLEN EINES
VERBRENNUNGSMOTORS

Title (fr)
DISPOSITIF DE RÉGLAGE ÉLECTROMAGNÉTIQUE, EN PARTICULIER POUR FAIRE VARIER LE CALAGE D'ARBRES À CAMES D'UN
MOTEUR À COMBUSTION INTERNE

Publication
EP 3607175 A1 20200212 (DE)

Application
EP 18714250 A 20180329

Priority
• DE 102017107403 A 20170406
• EP 2018058072 W 20180329

Abstract (en)
[origin: WO2018184975A1] The present invention relates to an electromagnetic control device, in particular for adjusting camshafts or a camshaft section of an internal combustion engine, comprising an energisable coil unit (44), by means of which an armature (12) mounted for movement along a longitudinal axis (L) can be moved relative to a pole core between a retracted position and an extended position; a tappet (26), which is mounted for movement along the longitudinal axis (L) with a free end portion (28) with which, in the extended position, the tappet (26) interacts with a camshaft in order to adjust the camshaft, and with an inner end portion (30), with which the tappet (26) is attached to the armature (12), wherein the tappet (26) is attached in a form-fitting manner to the armature (12) by means of a deformable connection element. The invention also relates to a method for the form-fitting attachment of a tappet (26) to an armature (12) of an electromagnetic control device (42) of this kind.

IPC 8 full level
F01L 13/00 (2006.01); **H01F 7/08** (2006.01)

CPC (source: EP US)
F01L 13/0036 (2013.01 - EP US); **H01F 7/127** (2013.01 - EP); **H01F 7/1607** (2013.01 - EP US); **F01L 1/047** (2013.01 - US); **F01L 2013/0052** (2013.01 - EP US); **F01L 2013/0078** (2013.01 - EP); **F01L 2013/101** (2013.01 - EP); **F01L 2301/00** (2020.05 - EP US); **F01L 2303/00** (2020.05 - EP); **F01L 2810/04** (2013.01 - EP); **F01L 2820/031** (2013.01 - US); **H01F 2007/086** (2013.01 - EP US)

Citation (search report)
See references of WO 2018184975A1

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 2018184975 A1 20181011; CN 110475950 A 20191119; DE 102017107403 A1 20181011; EP 3607175 A1 20200212;
US 2021108543 A1 20210415

DOCDB simple family (application)
EP 2018058072 W 20180329; CN 201880023456 A 20180329; DE 102017107403 A 20170406; EP 18714250 A 20180329;
US 201816603012 A 20180329