

Title (en)
CAMSHAFT ADJUSTING ASSEMBLY

Title (de)
NOCKENWELLENVERSTELLANORDNUNG

Title (fr)
SYSTÈME DE CALAGE D'ARBRE À CAMES

Publication
EP 2494157 B1 20131225 (DE)

Application
EP 10771733 A 20101028

Priority
• DE 102009051519 A 20091031
• EP 2010066329 W 20101028

Abstract (en)
[origin: WO2011051377A1] The invention relates to a camshaft adjustment assembly (1), wherein a control valve (4) is provided for controlling the flow of the pressure fluid in the hydraulic chamber, wherein the control valve (4) is supplied with pressure fluid from the region of a camshaft bearing (5) by means of a fluid channel (6, 7, 8, 9). In order to enable an improved fluid line at low component weakening, according to the invention the fluid channel (6, 7, 8, 9) comprises an annular chamber (6), which is formed between the axial end (10) of the camshaft (2) at least sections of which have a tubular design, a flange-like section (11) of a housing element (12) that is non-rotationally connected to the camshaft (2) and in which the control valve (4) is mounted, a radially inner delimiting surface (13) of the housing element (12), and a section (14) of the wall of the camshaft bearing (5).

IPC 8 full level
F01L 1/344 (2006.01)

CPC (source: EP US)
F01L 1/344 (2013.01 - EP US); **F01L 2001/0476** (2013.01 - 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)
DE 102009051519 A1 20110505; CN 102686837 A 20120919; CN 102686837 B 20150429; EP 2494157 A1 20120905;
EP 2494157 B1 20131225; US 2012210963 A1 20120823; US 8776744 B2 20140715; WO 2011051377 A1 20110505

DOCDB simple family (application)
DE 102009051519 A 20091031; CN 201080049175 A 20101028; EP 10771733 A 20101028; EP 2010066329 W 20101028;
US 201013505056 A 20101028