

Title (en)  
ECCENTRIC DRIVE MECHANISM FOR VOLUMETRIC PUMPS OR MOTORS

Title (de)  
EXZENTERTRIEBWERK FÜR VOLUMETRISCH WIRKENDE PUMPEN ODER MOTOREN

Title (fr)  
MECANISME DE TRANSMISSION EXCENTRIQUE DESTINE A DES POMPES D'ACTION VOLUMETRIQUE OU MOTEURS

Publication  
**EP 1651866 B1 20140305 (DE)**

Application  
**EP 04740680 A 20040706**

Priority  
• EP 2004007352 W 20040706  
• DE 10330757 A 20030707

Abstract (en)  
[origin: WO2005003558A1] The invention relates to an eccentric drive mechanism for volumetric pumps or motors, comprising the following features:  
a) at least one stroke member (6, 6'), which is rotationally fixed to the shaft (W) of the crank gear and has at least one stroke bearing (HL) that is eccentric in relation to the axis (XX) of the shaft; b) the stroke bearing (HL) connects the stroke member (HG) to a coupling member (KG) that plays no part in the rotational displacement, said member being connected to at least one pressure member (DG) for the oscillating delivery drive mechanism of at least one piston-cylinder unit by means of a transversal bearing (QL); c) at least one pressure delivery source (DQ) for lubricant, which is connected on the output side to the transversal bearing (QL) via a system of channels; d) starting from a connection channel (KA) that is connected to the pressure delivery source (DQ), the channel system comprises a first channel (K1) running through the stroke member (HG) into the stroke bearing (HL) and at least one second channel (K2) running from said stroke bearing through the coupling member (KG) into the transversal bearing (QL).

IPC 8 full level  
**F04B 1/04** (2006.01); **F04B 9/04** (2006.01); **F04B 27/04** (2006.01)

CPC (source: EP US)  
**F04B 1/0413** (2013.01 - EP US); **F04B 9/045** (2013.01 - EP US); **F04B 27/0414** (2013.01 - EP US)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2005003558 A1 20050113**; CA 2540721 A1 20050113; CA 2540721 C 20111122; CN 1846058 A 20061011; CN 1846058 B 20100421; DE 10330757 A1 20050203; EP 1651866 A1 20060503; EP 1651866 B1 20140305; ES 2460954 T3 20140516; JP 2007526958 A 20070920; NO 20051157 L 20050415; NO 338172 B1 20160801; PL 1651866 T3 20140829; RU 2006103487 A 20060610; RU 2354847 C2 20090510; US 2006245940 A1 20061102; US 7441492 B2 20081028

DOCDB simple family (application)  
**EP 2004007352 W 20040706**; CA 2540721 A 20040706; CN 200480025364 A 20040706; DE 10330757 A 20030707; EP 04740680 A 20040706; ES 04740680 T 20040706; JP 2006518117 A 20040706; NO 20051157 A 20050303; PL 04740680 T 20040706; RU 2006103487 A 20040706; US 56367004 A 20040706