Title (en)
HYDROELECTRIC DEVICE FOR CLOSED-LOOP DRIVING THE CONTROL JACK OF A VARIABLE COMPRESSION RATE ENGINE

Title (de)
HYDROELEKTRISCHE VORRICHTUNG ZUM ANTREIBEN DER STEUERBUCHSE EINES MOTORS MIT VARIABLER KOMPRESSIONSRATE IN EINEM GESCHLOSSENEN REGELKREIS

Title (fr)
DISPOSITIF ÉLECTROHYDRAULIQUE DE PILOTAGE EN BOUCLE FERMÉE DU VERIN DE COMMANDE D'UN MOTEUR A TAUX DE COMPRESSION VARIABLE

Publication
EP 2160507 B1 20160413 (FR)

Application
EP 08805484 A 20080416

Priority
- FR 2008000529 W 20080416
- FR 0702732 A 20070416
- US 90777607 P 20070417

Abstract (en)
[origin: FR2914951A1] The device (80) has a double direction electrovalve (81) for opening or closing a hydraulic fluid conduit (83) between an upper chamber (121) and a lower chamber (122) of an actuating cylinder (8). A position sensor (82) is provided at a level of the actuating cylinder and determines a position of a control rack (7) using a controller (84). The electrovalve has a check valve (85) preventing movement of a hydraulic fluid from the lower chamber to the upper chamber.

IPC 8 full level
F02B 75/04 (2006.01); **F02D 15/02** (2006.01)

CPC (source: EP KR US)
F02B 75/04 (2013.01 - KR); **F02B 75/045** (2013.01 - EP US); **F02B 75/048** (2013.01 - EP US); **F02D 15/02** (2013.01 - EP KR US); **F02D 35/00** (2013.01 - KR)

Cited by
DE102018100529A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
FR 2914951 A1 20081017; **FR 2914951 B1 20120615**; AU 2008259733 A1 20081211; AU 2008259733 B2 20111215; CA 2681616 A1 20081211; CA 2681616 C 20151006; CN 101688473 A 20100331; CN 101688473 B 20120111; EP 2160507 A2 20100310; EP 2160507 B1 20160413; ES 2570764 T3 20160520; JP 2010525207 A 20100722; JP 5111602 B2 20130109; KR 101387772 B1 20140421; KR 20100016505 A 20100212; US 2010163003 A1 20100701; US 2014338641 A1 20141120; US 8875671 B2 20141104; US 9376966 B2 20160628; WO 2008148948 A2 20081211; WO 2008148948 A3 20090319

DOCDB simple family (application)
FR 0702732 A 20070416; AU 2008259733 A 20080416; CA 2681616 A 20080416; CN 200880020059 A 20080416; EP 08805484 A 20080416; ES 08805484 T 20080416; FR 2008000529 W 20080416; JP 2010503544 A 20080416; KR 20097023672 A 20080416; US 201414449451 A 20140801; US 59637808 A 20080416