

Title (en)

Hydraulic unit for a cylinder head of a combustion engine with hydraulically variable gas exchange valve drive

Title (de)

Hydraulikeinheit für einen Zylinderkopf einer Brennkraftmaschine mit hydraulisch variablem Gaswechselventiltrieb

Title (fr)

Unité hydraulique pour une tête de cylindre d'un moteur à combustion interne dotée d'une commande de soupape hydraulique variable à échange de gaz

Publication

EP 2381075 A3 20130123 (DE)

Application

EP 11160128 A 20110329

Priority

DE 102010018209 A 20100426

Abstract (en)

[origin: EP2381075A2] The hydraulic unit has a hydraulic housing equipped with a drive-side transmitter unit and a drive-side recipient unit, where a controllable hydraulic valve is arranged. An intermediate pressure chamber (12) is designed, which extends in a hydraulic housing. A low-pressure chamber (16) is connected with an associated intermediate pressure chamber through a throttling point (17).

IPC 8 full level

F01L 9/11 (2021.01); **F01L 13/00** (2006.01)

CPC (source: EP US)

F01L 9/11 (2021.01 - EP US); **F01L 13/0015** (2013.01 - EP US); **Y10T 137/86493** (2015.04 - EP US)

Citation (search report)

- [A] EP 1243761 A1 20020925 - FIAT RICERCHÉ [IT]
- [A] DE 4206696 A1 19930909 - BOSCH GMBH ROBERT [DE]
- [A] WO 0120150 A1 20010322 - DIESEL ENGINE RETARDERS INC [US]
- [A] DE 3604233 A1 19870813 - BOSCH GMBH ROBERT [DE]

Cited by

WO2013104612A1

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)

EP 2381075 A2 20111026; EP 2381075 A3 20130123; EP 2381075 B1 20131016; DE 102010018209 A1 20111027; US 2011259288 A1 20111027; US 8413621 B2 20130409

DOCDB simple family (application)

EP 11160128 A 20110329; DE 102010018209 A 20100426; US 201113074339 A 20110329