

Title (en)

HYDRAULIC ACTUATOR AND GAS EXCHANGE VALVE ARRANGEMENT

Title (de)

HYDRAULISCHER AKTUATOR UND GASAUSTAUSCHVENTILANORDNUNG

Title (fr)

ACTIONNEUR HYDRAULIQUE ET AMÉNAGEMENT DE SOUPAPES D'ÉCHANGE DE GAZ

Publication

EP 2834480 B1 20160224 (EN)

Application

EP 13711447 A 20130226

Priority

- FI 20125254 A 20120309
- FI 2013050213 W 20130226

Abstract (en)

[origin: WO2013132149A1] The hydraulic actuator (35) for opening a gas exchange valve of an internal combustion engine comprises a drive piston (7) that is arranged in a pressurizing chamber (9) for pressurizing hydraulic fluid. A hydraulic valve (10) having two positions is used for operating the hydraulic actuator (35). The invention also concerns a gas exchange valve arrangement.

IPC 8 full level

F01L 9/10 (2021.01)

CPC (source: EP FI)

F01L 9/10 (2021.01 - EP FI)

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)

WO 2013132149 A1 20130912; CN 104160119 A 20141119; CN 104160119 B 20160831; EP 2834480 A1 20150211; EP 2834480 B1 20160224; FI 124349 B 20140715; FI 20125254 A 20130910; KR 102032010 B1 20191014; KR 20140140571 A 20141209

DOCDB simple family (application)

FI 2013050213 W 20130226; CN 201380012490 A 20130226; EP 13711447 A 20130226; FI 20125254 A 20120309; KR 20147027861 A 20130226