

Title (en)

SYSTEM FOR ACTUATION OF AN INTAKE VALVE OF AN INTERNAL COMBUSTION ENGINE

Title (de)

SYSTEM ZUR BETÄTIGUNG EINES EINLASSVENTILS EINER BRENNKRAFTMASCHINE

Title (fr)

SYSTÈME POUR ACTIONNER UNE SOUPAPE D'ADMISSION D'UN MOTEUR À COMBUSTION INTERNE

Publication

EP 4074945 B1 20230531 (EN)

Application

EP 21168009 A 20210413

Priority

EP 21168009 A 20210413

Abstract (en)

[origin: EP4074945A1] An actuation system for actuating an intake valve associated with a cylinder of an internal combustion engine comprises a slave piston (21) that operates the intake valve (7) and that is hydraulically controlled by means of a volume of pressurized fluid (C) by a master piston (16) operated by a first cam (14A) of a camshaft (11). A control valve (24) controls the communication between the volume of pressurized fluid (C) and an environment at lower pressure to which a fluid accumulator is connected (270). The control valve (24) is mechanically controlled by a second cam (14B) that is carried by the camshaft (11) and that has the sole function of controlling the control valve (24).

IPC 8 full level

F01L 1/344 (2006.01); **F01L 9/12** (2021.01); **F01L 13/00** (2006.01); **F01L 13/06** (2006.01)

CPC (source: EP)

F01L 1/3442 (2013.01); **F01L 9/12** (2021.01); **F01L 13/0047** (2013.01); **F01L 13/06** (2013.01); **F01L 13/0005** (2013.01); **F01L 2001/0537** (2013.01); **F01L 2001/34426** (2013.01); **F01L 2001/34433** (2013.01); **F01L 2001/34483** (2013.01); **F01L 2001/34489** (2013.01); **F01L 2810/03** (2013.01); **F01L 2810/04** (2013.01)

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)

EP 4074945 A1 20221019; EP 4074945 B1 20230531; WO 2022219440 A1 20221020

DOCDB simple family (application)

EP 21168009 A 20210413; IB 2022052884 W 20220329