

Title (en)

A SYSTEM FOR OPERATING A CYLINDER VALVE ASSEMBLY FOR AN INTERNAL COMBUSTION ENGINE

Title (de)

EIN SYSTEM ZUM BETREIBEN EINER ZYLINDERVENTILBAUGRUPPE FÜR EINEN VERBRENNUNGSMOTOR

Title (fr)

SYSTÈME D'ACTIONNEMENT D'UN ENSEMBLE DE SOUPAPE DE CYLINDRE POUR UN MOTEUR À COMBUSTION INTERNE

Publication

EP 4043702 A1 20220817 (EN)

Application

EP 22155573 A 20220208

Priority

IT 202100002960 A 20210210

Abstract (en)

A system for operating a cylinder valve assembly for an internal combustion engine comprising a main event motion source configured to provide main event valve motions to the valve assembly, a main rocker arm operatively connected to the main event motion source, in such a way to assume an active condition at main event and a released condition, a lost motion assembly (LMA) operatively associated to the valve assembly (VB), wherein the lost motion assembly includes a locking element (LE), wherein the locking element is arranged to assume a locking condition with a first portion disposed in a corresponding seat (LES) of the valve assembly wherein the outer plunger includes a first duct (LD) to convey a hydraulic medium, arranged to pressurize the seat (LES) and wherein the lost motion assembly is realized such that sliding force exerted on the locking element by the corresponding seat pressurization exceeds frictions developed between the locking element and the corresponding seat only when the rocker arm is in released condition

IPC 8 full level

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Citation (applicant)

US 2014251266 A1 20140911 - EMMONS KRISTIN V [US], et al

Citation (search report)

- [XAI] US 10851682 B2 20201201 - BALTRUCKI JUSTIN D [US]
- [A] US 9790824 B2 20171017 - BALTRUCKI JUSTIN [US], et al
- [A] US 2020182097 A1 20200611 - ALEXANDRU MATEI [US], et al

Designated contracting state (EPC)

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Designated extension state (EPC)

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