

Title (en)

A POWER UNIT WITH VARIABLE VALVE TIMING SYSTEM

Title (de)

ANTRIEBSEINHEIT MIT VARIABLEM VENTILSTEUERUNGSSYSTEM

Title (fr)

UNITÉ D'ALIMENTATION DOTÉE D'UN SYSTÈME DE DISTRIBUTION VARIABLE

Publication

EP 4107373 A1 20221228 (EN)

Application

EP 21713149 A 20210220

Priority

- IN 202041007414 A 20200221
- IN 2021050161 W 20210220

Abstract (en)

[origin: WO2021165993A1] The present subject matter relates to a power unit with variable valve timing system. The power unit (100) comprises a cylinder head assembly (102). A variable valve timing system provided on the cylinder head assembly (102) comprises a first cam (142) for actuating one or more first valves (132) through a first rocker arm (144) pivotable about a first axis (S-S1). A secondary cam (152) for selectively actuating the one or more first valves (132) through a secondary rocker arm (154) pivotable about the first axis (S-S1). An engaging unit (145, 160, 162) is disposed about the first axis (S-S1) is configured to selectively engage the secondary rocker arm (154) with the first rocker arm (144). The present invention provides a system with lower inertia due to mass accumulation near to the first axis (S- S') thereby enabling ease of operation and operation at higher speed of the power unit.

IPC 8 full level

F01L 13/00 (2006.01); **F01L 1/053** (2006.01); **F01L 1/18** (2006.01)

CPC (source: EP)

F01L 1/053 (2013.01); **F01L 1/181** (2013.01); **F01L 13/0036** (2013.01); **F01L 2001/0535** (2013.01); **F01L 2013/101** (2013.01); **F01L 2820/031** (2013.01)

Citation (examination)

US 5809952 A 19980922 - ONO TAKASHI [JP], et al

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2021165993 A1 20210826; CN 115135857 A 20220930; EP 4107373 A1 20221228

DOCDB simple family (application)

IN 2021050161 W 20210220; CN 202180015651 A 20210220; EP 21713149 A 20210220