

Title (en)

VARIABLE ROCKER RATIO SYSTEM FOR A SWITCHABLE ROCKER ARM

Title (de)

SCHALTBARER KIPHEBEL MIT EINEM VARIABLER HEBELVERÄLTNIS

Title (fr)

CULBUTEUR DECONNECTABLE COMPRENANT UN RAPPORT DE CULBUTEUR VARIABLE

Publication

EP 3411568 B1 20201021 (EN)

Application

EP 17702373 A 20170131

Priority

- US 201662289538 P 20160201
- EP 2017052071 W 20170131

Abstract (en)

[origin: WO2017134062A1] A discrete switchable variable valve lift (VVL) system constructed in accordance to one example of the present disclosure includes a first switchable VVL rocker arm assembly, a second switchable VVL rocker arm assembly and an actuation assembly. The first switchable VVL rocker arm assembly selectively opens a first valve. The second switchable VVL rocker arm assembly selectively opens a second valve. The actuation assembly includes an actuation shaft rotatably driven by a first motor. The actuation shaft has a first lift cam and a second lift cam. The first and second lift cams selectively move the respective first and second latch pins between the latched and unlatched positions to provide discrete operating conditions. The VVL system further includes a sliding variable rocker ratio system (VRRS) contact arm associated with the first switchable VVL rocker arm assembly that provides a modulated valve lift.

IPC 8 full level

F01L 13/00 (2006.01); **F01L 1/18** (2006.01); **F02M 26/01** (2016.01)

CPC (source: EP)

F01L 1/18 (2013.01); **F01L 1/185** (2013.01); **F01L 13/0021** (2013.01); **F01L 13/0026** (2013.01); **F01L 13/0036** (2013.01); **F02M 26/01** (2016.02); **F01L 2001/186** (2013.01); **F01L 2800/10** (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)

WO 2017134062 A1 20170810; EP 3411568 A1 20181212; EP 3411568 B1 20201021

DOCDB simple family (application)

EP 2017052071 W 20170131; EP 17702373 A 20170131