

Title (en)

VALVE ACTUATION SYSTEM COMPRISING FINGER FOLLOWER FOR LOBE SWITCHING AND SINGLE SOURCE LOST MOTION

Title (de)

VENTILBETÄTIGUNGSSYSTEM MIT EINEM NOCKENFOLGER ZUR NOCKENUMSCHALTUNG UND EINZELQUELLENVERLUSTBEWEGUNG

Title (fr)

SYSTÈME D'ACTIONNEMENT DE SOUPAPE COMPRENANT UN LINGUET POUR UNE COMMUTATION DE LOBES ET UN MOUVEMENT PERDU À SOURCE UNIQUE

Publication

EP 4370784 A1 20240522 (EN)

Application

EP 22841563 A 20220624

Priority

- US 202117305637 A 20210712
- IB 2022055896 W 20220624

Abstract (en)

[origin: WO2023285901A1] A switching finger follower for an engine valve train utilizes an adjustable support assembly that eliminates potential for partial engagement during operation. A lever engagement member or latch is disposed for movement on the follower body and interacts with a lever to provide a constant contact geometry. The finger follower may be configured as a lost motion device and may include a biasing assembly and a travel limiter. The latch may support the lever in at least one precise position and may support the lever in a second position for partial lost motion, or permit the lever to pivot free of the latch for complete lost motion, as in cylinder deactivation applications.

IPC 8 full level

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

CPC (source: EP KR)

F01L 1/185 (2013.01 - EP KR); **F01L 13/0036** (2013.01 - EP KR); **F01L 13/065** (2013.01 - EP KR); **F01L 2001/186** (2013.01 - EP KR); **F01L 2013/101** (2013.01 - EP KR); **F01L 2013/105** (2013.01 - EP KR); **F01L 2305/00** (2020.05 - EP KR)

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 2023285901 A1 20230119; CN 117500999 A 20240202; EP 4370784 A1 20240522; JP 2024524989 A 20240709; KR 20240011819 A 20240126

DOCDB simple family (application)

IB 2022055896 W 20220624; CN 202280043584 A 20220624; EP 22841563 A 20220624; JP 2023579162 A 20220624; KR 20237044715 A 20220624