

Title (en)
ELECTROMECHANICAL VALVE LASH ADJUSTER

Title (de)
ELEKTROMECHANISCHES VENTILSPIELAUSGLEICHSELEMENT

Title (fr)
RATTRAPEUR DE JEU DE SOUPAPE ÉLECTROMÉCANIQUE

Publication
EP 3144491 A1 20170322 (EN)

Application
EP 16189860 A 20160921

Priority
• US 201562212275 P 20150921
• US 201662313440 P 20160325
• US 201615270070 A 20160920

Abstract (en)
An internal combustion engine includes a cylinder head, a poppet valve having a seat within the cylinder head, a cam shaft on which is mounted an eccentrically shaped cam, and a rocker arm assembly comprising a rocker arm, a cam follower, and an electromagnetically actuated lash adjuster. The lash adjuster provides a continuously variable length fulcrum for the rocker arm. The actuator may be a piezoelectric stepper motor. The lash adjuster may be operative to vary a rate of internal exhaust gas recirculation and without requiring crank angle data.

IPC 8 full level
F01L 1/22 (2006.01); **F01L 1/18** (2006.01); **F01L 1/20** (2006.01)

CPC (source: EP)
F01L 1/185 (2013.01); **F01L 1/20** (2013.01); **F01L 1/22** (2013.01); **F01L 9/24** (2021.01); **F01L 2305/00** (2020.05); **F01L 2820/032** (2013.01)

Citation (applicant)
US 7309943 B2 20071218 - HENDERSON DAVID [US], et al

Citation (search report)
• [XYI] JP H02267306 A 19901101 - FUJI VALVE
• [YD] US 7309943 B2 20071218 - HENDERSON DAVID [US], et al
• [Y] DE 10137599 A1 20030213 - FEV MOTORENTECH GMBH [DE]
• [Y] DE 102010034487 A1 20120223 - SCHAEFFLER TECHNOLOGIES GMBH [DE]

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

DOCDB simple family (publication)
EP 3144491 A1 20170322

DOCDB simple family (application)
EP 16189860 A 20160921