

Title (en)
INTERNAL COMBUSTION ENGINE

Title (de)
VERBRENNUNGSMOTOR

Title (fr)
MOTEUR À COMBUSTION INTERNE

Publication
EP 3121398 B1 20180509 (EN)

Application
EP 16180061 A 20160719

Priority
JP 2015145052 A 20150722

Abstract (en)
[origin: EP3121398A1] An internal combustion engine (1) includes: a cylinder head (2); an oil feed passage (16); a camshaft (3); a vacuum pump (35) that has a rotor (36) and a housing (42), with a negative-pressure chamber defined by the rotor (36) and the housing (42) being connected to the oil feed passage (16), and is configured to generate negative pressure inside the negative-pressure chamber as the rotor (36) rotates; a hydraulic lash adjuster (21) connected to the oil feed passage (16); and a branch passage (76) branched from the oil feed passage (16). An open hole (73) open to the atmosphere is provided at a leading end of the branch passage (76), and oil is fed through the open hole (73) to the camshaft (3) while the internal combustion engine (1) is in operation, and air is introduced through the open hole (73) into the vacuum pump (35) while the internal combustion engine (1) is stopped.

IPC 8 full level
F01M 9/10 (2006.01); **F01L 1/047** (2006.01); **F01L 1/18** (2006.01)

CPC (source: EP)
F01L 1/047 (2013.01); **F01L 1/185** (2013.01); **F01M 9/10** (2013.01); **F01M 9/101** (2013.01); **F01M 9/102** (2013.01); **F02B 63/06** (2013.01); **F02B 67/04** (2013.01); **F01L 2810/02** (2013.01)

Cited by
DE112017000087B4; US10400643B2

Designated contracting state (EPC)
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