

Title (en)

Improvements in lubricating the seats of a camshaft and rocker arm shaft in an internal combustion engine

Title (de)

Verbesserung in der Sitzschmierung für Nockenwelle und Kipphebelshaft einer Brennkraftmaschine

Title (fr)

Amélioration de la lubrification des sièges d'un arbre à cames et gaine du culbuteur dans un moteur à combustion interne

Publication

EP 2365194 A1 20110914 (EN)

Application

EP 10380155 A 20101215

Priority

ES 2010070114 W 20100304

Abstract (en)

The lubrication of seats is possible thanks to the incorporation of an internal pressurized oil circuit that is driven through a pump circulating an oil flow rate towards the camshaft and rocker arm shaft seats through various pipes. These seats are located in a cylinder head, whereas the rocker arm shaft seats are located in an upper support sit on an upper surface of the cylinder head, while also holding a part of the camshaft in correspondence with its seats. The improvements are characterized in that the cylinder head (1) includes at least two transverse bores (2-3) that are part of the pressurized oil circuit, and from which upstream pipes (4-5) are extended flowing into the camshaft (8) and rocker arm shaft (9) seats (6-7).

IPC 8 full level

F01M 9/10 (2006.01)

CPC (source: EP)

F01M 9/102 (2013.01); **F01M 9/107** (2013.01)

Citation (applicant)

EP 1034358 A1 20000913 - VOLKSWAGEN AG [DE]

Citation (search report)

- [Y] DE 19752381 A1 19990527 - VOLKSWAGEN AG [DE]
- [Y] US 5353755 A 19941011 - MATSUO ISAYA [JP], et al
- [Y] EP 1865159 A2 20071212 - FORD GLOBAL TECH LLC [US]

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 2365194 A1 20110914; WO 2011107623 A1 20110909

DOCDB simple family (application)

EP 10380155 A 20101215; ES 2010070114 W 20100304