

Title (en)

Cylinder head assembly with oil reflector for lubrication of a rocker arm

Title (de)

Zylinderkopfzusammenbau mit Ölreflektor zur Schmierung eines Kipphebels

Title (fr)

Ensemble de culasse à réflecteur d'huile de lubrification d'un culbuteur

Publication

EP 2843204 A1 20150304 (EN)

Application

EP 14182947 A 20140829

Priority

US 201314016304 A 20130903

Abstract (en)

A cylinder head assembly includes a cylinder head defining a port for selectively communicating air to a combustion chamber of an engine or for selectively discharging exhaust gases from the combustion chamber. The cylinder head also defines a valve seat between the port and the combustion chamber. A combustion valve is mounted in the cylinder head and is selectively seated and unseated with the valve seat. A camshaft with a lobe is mounted in the cylinder head. A rocker arm is engaged with the combustion valve and has a follower for following the lobe. An oil spray source provides a spray of oil while an oil reflector is configured to receive the spray of oil and direct the spray of oil to the follower to provide lubrication between the interface of the follower and the lobe.

IPC 8 full level

F01L 1/18 (2006.01); **F01L 13/00** (2006.01); **F01M 9/10** (2006.01)

CPC (source: EP US)

F01L 1/053 (2013.01 - EP US); **F01L 1/185** (2013.01 - EP US); **F01L 13/0021** (2013.01 - EP US); **F01L 13/0036** (2013.01 - EP US); **F01M 1/08** (2013.01 - US); **F01M 9/10** (2013.01 - EP US); **F01M 9/101** (2013.01 - EP US); **F01M 9/102** (2013.01 - EP US); **F01M 9/105** (2013.01 - EP US); **F01L 2001/0537** (2013.01 - EP US); **F01L 2001/186** (2013.01 - EP US); **F01L 2305/00** (2020.05 - EP US); **F01L 2810/02** (2013.01 - EP US)

Citation (applicant)

- US 2009078225 A1 20090326 - HENDRIKSMA NICK J [US]
- US 7761217 B2 20100720 - WATERS JAMES P [US], et al

Citation (search report)

- [YD] US 2009078225 A1 20090326 - HENDRIKSMA NICK J [US]
- [Y] FR 2746846 A1 19971003 - RENAULT [FR]
- [Y] FR 2464364 A1 19810306 - YANMAR DIESEL ENGINE CO [JP], et al
- [Y] US 5492086 A 19960220 - KUHNS JACK M [US]
- [Y] EP 2034141 A1 20090311 - MAZDA MOTOR [JP]
- [Y] US 2011220049 A1 20110915 - STALEY DAVID R [US], et al

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 2843204 A1 20150304; KR 20150026986 A 20150311; US 2015059678 A1 20150305

DOCDB simple family (application)

EP 14182947 A 20140829; KR 20140115201 A 20140901; US 201314016304 A 20130903