

Title (en)

DEVICE AND METHOD FOR OPENING A LUBRICATION AND COOLING VALVE FOR RECIPROCATING PISTON ENGINES

Title (de)

VORRICHTUNG UND VERFAHREN ZUR ÖFFNUNG EINES SCHMIERUNGS- UND KÜHLUNGSVENTILS FÜR HUBKOLBENMASCHINEN

Title (fr)

DISPOSITIF ET PROCÉDÉ D'OUVERTURE DE SOUPAPE, DE LUBRIFICATION ET DE REFROIDISSEMENT DES MOTEURS À PISTONS ALTERNATIFS

Publication

**EP 2167795 A2 20100331 (FR)**

Application

**EP 08805649 A 20080605**

Priority

- FR 2008000761 W 20080605
- FR 0704053 A 20070606

Abstract (en)

[origin: WO2009004185A2] The invention relates to a method and a device for actuating, without any mechanical shock, a valve integrated in the piston of an internal combustion engine.

IPC 8 full level

**F01M 3/00** (2006.01); **F01B 1/12** (2006.01); **F01L 9/10** (2021.01); **F01L 9/16** (2021.01)

CPC (source: EP)

**F01L 9/10** (2021.01); **F01L 9/16** (2021.01); **F01L 11/02** (2013.01); **F01M 1/06** (2013.01); **F02B 33/04** (2013.01); **F02B 33/14** (2013.01); **F01L 2009/2126** (2021.01); **F01M 2001/062** (2013.01); **F01M 2001/066** (2013.01); **F02F 3/22** (2013.01)

Citation (search report)

See references of WO 2009004185A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

**FR 2917121 A1 20081212**; EP 2167795 A2 20100331; WO 2009004185 A2 20090108; WO 2009004185 A3 20090319; WO 2009004185 A4 20090514

DOCDB simple family (application)

**FR 0704053 A 20070606**; EP 08805649 A 20080605; FR 2008000761 W 20080605