Title (en)

TAPPET, HIGH PRESSURE PUMP COMPRISING AT LEAST ONE TAPPET, ENGINE COMPRISING AT LEAST ONE TAPPET, ENGINE COMPRISING A HIGH PRESSURE PUMP HAVING AT LEAST ONE TAPPET AND METHOD OF LUBRICATING A SURFACE OF A CAM

Title (de)

STÖSSEL, HOCHDRUCKPUMPE MIT MINDESTENS EINEM STÖSSEL, MOTOR MIT MINDESTENS EINEM STÖSSEL, MOTOR MIT EINER HOCHDRUCKPUMPE MIT WENIGSTENS EINEM STÖSSEL UND VERFAHREN ZUM SCHMIEREN EINER OBERFLÄCHE EINES NOCKENS

Title (fr)

POUSSOIR, POMPE HAUTE-PRESSION COMPRENANT AU MOINS UN POUSSOIR, MOTEUR COMPRENANT AU MOINS UN POUSSOIR, MOTEUR COMPRENANT UNE TELLE POMPE HAUTE-PRESSION AYANT AU MOINS UN POUSSOIR ET PROCÉDÉ DE LUBRIFICATION D'UNE SURFACE D'UNE CAME

Publication

EP 3436684 A1 20190206 (EN)

Application

EP 17713958 A 20170328

Priority

- GB 201605538 A 20160401
- EP 2017057326 W 20170328

Abstract (en)

[origin: GB2548900A] Disclosed is a roller tappet 10 for a fuel pump of an internal combustion engine. The roller tappet comprises a body having a roller reception space 32 that is formed at one end of the body and that is adapted to receive a roller 18. The body further comprises a lubricant supply groove 20 for the reception of lubricant and a tappet alignment groove 28. A first fluid communicating connection 24 is present between the lubricant supply groove 20 and the roller reception space 32 for the supply of lubricant to an outlet 31 that opens into the roller reception space. A second fluid communicating connection 26 is present in the roller tappet that is provided to guide some of the lubricant supplied to the lubricant supply groove 20 to a second point of application, possibly via tappet alignment groove 28, with the second point of application being remote from the outlet 31. The roller tappet provides more lubrication to the roller which is frequently located at the top of an engine and therefore receives less lubricant than other engine parts since gravity forces the lubricant away from the upper engine parts and causes it to pool lower down. The extra lubricant on the roller reduces friction and so reduces wear on the engine parts.

IPC 8 full level

F02M 63/00 (2006.01); **F01M 9/10** (2006.01); **F02M 59/10** (2006.01); **F02M 59/44** (2006.01); **F04B 1/04** (2006.01)

CPC (source: EP GB)

F01L 1/14 (2013.01 - GB); **F01L 11/02** (2013.01 - GB); **F02M 59/02** (2013.01 - GB); **F02M 59/102** (2013.01 - EP); **F02M 59/44** (2013.01 - EP); **F02M 63/0001** (2013.01 - EP); **F04B 1/0408** (2013.01 - EP); **F04B 1/0426** (2013.01 - EP); **F04B 1/0439** (2013.01 - EP); **F04B 9/042** (2013.01 - EP); **F04B 53/14** (2013.01 - EP); **F04B 53/18** (2013.01 - EP); F01M 9/104 (2013.01 - EP); F02M 2200/8015 (2013.01 - EP)

Citation (search report)

See references of WO 2017167761A1

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)

GB 2548900 A 20171004; EP 3436684 A1 20190206; EP 3436684 B1 20201007; WO 2017167761 A1 20171005

DOCDB simple family (application)

GB 201605538 A 20160401; EP 17713958 A 20170328; EP 2017057326 W 20170328