

Title (en)
INTERNAL COMBUSTION ENGINE

Title (de)
BRENNKRAFTMASCHINE

Title (fr)
MOTEUR À COMBUSTION INTERNE

Publication
EP 3559419 B1 20230531 (DE)

Application
EP 17801593 A 20171108

Priority
• DE 102016015111 A 20161220
• EP 2017001297 W 20171108

Abstract (en)
[origin: WO2018114026A1] The invention relates to an internal combustion engine, comprising at least one crank housing, at least one cylinder head, at least one cylinder head cover, at least one oil separator and at least one oil sump for collecting returning oil, and at least one oil return duct connecting the oil separator and the oil sump.

IPC 8 full level
F01M 13/04 (2006.01)

CPC (source: EP US)
F01M 11/0004 (2013.01 - US); **F01M 11/02** (2013.01 - US); **F01M 13/0416** (2013.01 - EP US); **F01M 2011/023** (2013.01 - US); **F01M 2013/0444** (2013.01 - US); **F01M 2013/0488** (2013.01 - EP); **F01M 2013/0494** (2013.01 - EP US)

Citation (examination)
DE 19703771 C1 19980625 - DAIMLER BENZ AG [DE]

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

DOCDB simple family (publication)
DE 102016015111 A1 20180621; **DE 102016015111 B4 20211014**; CN 110088435 A 20190802; CN 110088435 B 20210727;
EP 3559419 A1 20191030; EP 3559419 B1 20230531; US 11111830 B2 20210907; US 2020191029 A1 20200618;
WO 2018114026 A1 20180628

DOCDB simple family (application)
DE 102016015111 A 20161220; CN 201780078511 A 20171108; EP 17801593 A 20171108; EP 2017001297 W 20171108;
US 201716467838 A 20171108