

Title (en)

System and method for heating at least one operating fuel of a combustion engine

Title (de)

Anordnung und Verfahren zur Erwärmung zumindest eines Betriebsmittels einer Verbrennungskraftmaschine

Title (fr)

Dispositif et procédé de chauffage d'au moins un moyen de fonctionnement d'un moteur à combustion interne

Publication

EP 2009256 A3 20100915 (DE)

Application

EP 08008792 A 20080510

Priority

DE 102007030463 A 20070629

Abstract (en)

[origin: EP2009256A2] The arrangement has a heat exchanger (14) for heating the engine oil provided in an oil tank (13) in an engine block (12) of an internal combustion engine and arranged in an oil sump (15) of the oil tank. Hot combustion gases are fed over a bypass line (10) through the heat exchanger. Another heat exchanger (20) arranged in the oil tank is integrated in a coolant circuit (3) of the combustion engine. The heat exchangers are formed as a single-piece and partially comprise a common separation wall. An independent claim is also included for a method for heating a drive unit of an internal combustion engine.

IPC 8 full level

F01M 5/00 (2006.01); **F01M 5/02** (2006.01); **F02N 19/04** (2010.01)

CPC (source: EP)

F01M 5/00 (2013.01); **F01M 11/0004** (2013.01); **F01M 2005/023** (2013.01); **F01M 2011/0025** (2013.01)

Citation (search report)

[X] JP S5789811 U 19820602

Cited by

DE102013013310A1; CN105781666A; CN105781667A; FR2936562A1; CN105626187A; DE102013013310B4

Designated contracting state (EPC)

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Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

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