

Title (en)

Oil-waste gas cooling module for a combustion machine

Title (de)

Öl-Abgas-Kühlmodul für eine Verbrennungskraftmaschine

Title (fr)

Module de refroidissement de gaz d'échappement et d'huile pour un moteur à combustion interne

Publication

EP 2194245 A3 20110427 (DE)

Application

EP 09176026 A 20091116

Priority

DE 102008060224 A 20081204

Abstract (en)

[origin: EP2194245A2] The module has an exhaust-gas heat exchanger (6) arranged in a housing (2) e.g. oil guide housing (10). Cooling agent channels are fluid-connected with cooling agent chambers of an oil heat exchanger (8) and the exhaust-gas exchanger. Exhaust gas guide channels are formed in the exhaust-gas heat exchangers and oil guide channels. An oil filter (4) extends to a side of the exhaust-gas exchanger opposing the oil heat exchanger by the exhaust-gas exchanger and by the oil guide channels arranged in the housing, with which the oil heat exchanger is fluid-connected.

IPC 8 full level

F01M 5/00 (2006.01); **F02M 25/07** (2006.01)

CPC (source: EP)

F01M 5/002 (2013.01); **F01M 11/03** (2013.01); **F01P 11/08** (2013.01); **F02M 26/25** (2016.02); **F02M 26/30** (2016.02); **F02M 26/32** (2016.02); **F01M 2011/033** (2013.01); **F01P 2060/16** (2013.01)

Citation (search report)

- [XYI] JP H10131732 A 19980519 - YAMAHA MOTOR CO LTD
- [Y] JP H11311114 A 19991109 - AISIN SEIKI
- [Y] JP 2005207387 A 20050804 - TOYOTA IND CORP
- [A] JP S58113529 A 19830706 - TSUCHIYA SEISAKUSHO

Cited by

CN115614128A

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 MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2194245 A2 20100609; **EP 2194245 A3 20110427**; DE 102008060224 A1 20100617; DE 102008060224 B4 20130725

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