

Title (en)
Oilcooler

Title (de)
Ölkühler

Title (fr)
Refroidisseur d'huile

Publication
EP 2060865 A1 20090520 (EN)

Application
EP 08019855 A 20081113

Priority
• KR 20070116336 A 20071114
• KR 20080004753 A 20080116
• KR 20080109521 A 20081105

Abstract (en)
The present invention relates to an oil cooler, more particularly relates to an oil cooler provided with communicating portions (160) formed therein to allow oil flowed therein to be uniformly distributed and being capable of promoting a generation of turbulent flow of oil to enhance a heat-exchanging performance of oil and cooling water. An oil cooler according to the present invention comprises a pair of inlet/outlet boss portions (110) spaced from each other at a predetermined distance; an inlet pipe (120) and an outlet pipe (130) coupled to the inlet/outlet boss portions, respectively; and tubes (140) coupled to the inlet/outlet boss portions (110) through both ends thereof to form an oil flow passage. Here, wherein the tubes are disposed in parallel and in a multi-stage and the tube is formed with a communicating portion (160) for communicating the tube with the neighboring tube at an area between the inlet pipe and the outlet pipe to allow oil to be flowed therebetween.

IPC 8 full level
F28F 9/02 (2006.01); **F28D 7/16** (2006.01); **F28D 9/00** (2006.01)

CPC (source: EP US)
F28D 7/0041 (2013.01 - EP US); **F28D 7/1684** (2013.01 - EP US); **F28D 9/0043** (2013.01 - EP US); **F28F 3/086** (2013.01 - EP US); **F28F 9/0234** (2013.01 - EP US); **F28F 13/12** (2013.01 - EP US); **F28D 2021/0049** (2013.01 - EP US)

Citation (applicant)
• US 2006207753 A1 20060921 - SANATGAR HOMAYOUN [US], et al
• US 4708199 A 19871124 - YOGO TAKEJI [JP], et al

Citation (search report)
• [YX] US 2006207753 A1 20060921 - SANATGAR HOMAYOUN [US], et al
• [Y] JP 2002130982 A 20020509 - DENSO CORP
• [Y] US 4708199 A 19871124 - YOGO TAKEJI [JP], et al

Cited by
EP2876399A1; US10662833B2

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)
EP 2060865 A1 20090520; US 2009159250 A1 20090625

DOCDB simple family (application)
EP 08019855 A 20081113; US 26923408 A 20081112