

Title (en)
SYSTEM FOR COOLING AN ENGINE-TRANSMISSION UNIT, IN PARTICULAR OF A MOTOR VEHICLE, COMPRISING A LIQUID/LIQUID HEAT EXCHANGER

Title (de)
KÜHLUNGSSYSTEM EINER ANTRIEBSEINHEIT, INSBESONDERE EIN KRAFTFAHRZEUG MIT EINEM FLÜSSIGKEIT-FLÜSSIGKEIT-WÄRMETAUSCHER

Title (fr)
SYSTEME DE REFROIDISSEMENT D'UN GROUPE MOTOPROPULSEUR, NOTAMENT DE VEHICULE AUTOMOBILE, COMPRENANT UN ECHANGEUR LIQUIDE/LIQUIDE

Publication
EP 1556588 A1 20050727 (FR)

Application
EP 03782509 A 20031028

Priority
• FR 0303195 W 20031028
• FR 0213539 A 20021029

Abstract (en)
[origin: WO2004040105A1] The invention concerns a system for cooling an engine, in particular a heat engine (10), cooled by circulating a coolant and a cooling radiator (18) cooled by outside ambient air. The engine forms part of a primary loop (2) and the cooling radiator (18) forms part of a secondary loop (4). The same fluid circulates in both loops. The primary loop and the secondary loop are in heat-exchanging relationship with each other via an intermediate exchanger (26) traversed by both the coolant of the primary loop (2) and by the coolant of the secondary loop (4). The invention is applicable to motor vehicles.

IPC 1-7
F01P 7/16

IPC 8 full level
F01P 7/16 (2006.01); **F01P 5/10** (2006.01); **F01P 5/12** (2006.01)

CPC (source: EP)
F01P 7/165 (2013.01); **F01P 2005/105** (2013.01); **F01P 2005/125** (2013.01); **F01P 2050/06** (2013.01); **F01P 2060/02** (2013.01); **F01P 2060/04** (2013.01); **F01P 2060/045** (2013.01); **F01P 2060/08** (2013.01); **F01P 2060/14** (2013.01); **F01P 2060/16** (2013.01)

Citation (search report)
See references of WO 2004040105A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
FR 2846368 A1 20040430; **FR 2846368 B1 20070209**; AT E542034 T1 20120215; AU 2003290146 A1 20040525; EP 1556588 A1 20050727; EP 1556588 B1 20120118; WO 2004040105 A1 20040513

DOCDB simple family (application)
FR 0213539 A 20021029; AT 03782509 T 20031028; AU 2003290146 A 20031028; EP 03782509 A 20031028; FR 0303195 W 20031028