

Title (en)

COOLING SYSTEM FOR AN ENGINE DISPOSED WITHIN AN ENGINE ROOM

Title (de)

KÜHLSYSTEM FÜR EINEN IN EINEM MASCHINENRAUM ANGEORDNETEN VERBRENNUNGSMOTOR

Title (fr)

SYSTÈME DE REFROIDISSEMENT POUR UN MOTEUR DISPOSÉ À L'INTÉRIEUR D'UN COMPARTIMENT MOTEUR

Publication

EP 3130776 A1 20170215 (EN)

Application

EP 15002381 A 20150811

Priority

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Abstract (en)

A cooling system (200) for an engine (106) disposed within an engine room (104) includes a first cooling circuit (202) associated with an intercooler (206) of the engine (106), and a second cooling circuit (208) associated with a cooling jacket (214) of the engine (106). The cooling system (200) further includes a first connecting conduit (222) fluidly connecting the first cooling circuit (202) and the second cooling circuit (208), and a diverter valve (224) disposed in the first connecting conduit (222). The diverter valve (224) is configured to control a flow of cooling fluid from the second cooling circuit (208) to the first cooling circuit (202). The cooling system (200) further includes a controller (226) communicably coupled to the diverter valve (224). The controller (226) is configured to regulate the diverter valve (224) to allow a flow of cooling fluid from the second cooling circuit (208) to the first cooling circuit (202) based on at least one of air temperature (T1) in the engine room (104) and ambient air temperature (T).

IPC 8 full level

F01P 1/00 (2006.01); **F01P 7/16** (2006.01)

CPC (source: EP)

F01P 1/00 (2013.01); **F01P 7/165** (2013.01); **F01P 2001/005** (2013.01); **F01P 2005/105** (2013.01); **F01P 2060/02** (2013.01)

Citation (applicant)

US 7472771 B2 20090106 - YATAGAI YASUAKI [JP], et al

Citation (search report)

- [A] DE 102014114649 A1 20150618 - HYUNDAI MOTOR CO LTD [KR]
- [A] WO 2013184045 A1 20131212 - VOLVO CONSTR EQUIP AB [SE], et al
- [A] WO 2013067126 A1 20130510 - KOHLER CO [US]
- [A] EP 0323210 A2 19890705 - HONDA MOTOR CO LTD [JP]
- [A] EP 0499071 A1 19920819 - BEHR GMBH & CO [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

Designated extension state (EPC)

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