

Title (en)
COOLING DEVICE FOR A HYBRID VEHICLE

Title (de)
KÜHLVORRICHTUNG FÜR EIN HYBRIDFAHRZEUG

Title (fr)
DISPOSITIF DE REFROIDISSEMENT POUR VEHICULE HYBRIDE

Publication
EP 2488737 A1 20120822 (FR)

Application
EP 10770595 A 20100921

Priority
• FR 0957165 A 20091013
• FR 2010051956 W 20100921

Abstract (en)
[origin: WO2011045496A1] The invention relates to a device for cooling the heat engine (10), electrical components (26, 14, 28), and an electrical power storage means (18) of a hybrid vehicle, said device including a first circuit (60, HT) for cooling the heat engine, a second circuit (BT) for cooling the electrical components, and a third circuit (78, TBT) for cooling the electrical power storage means, a heat transfer fluid being capable of flowing inside said circuits, comprising heat exchange means (46, 48, 52). According to the invention, the heat exchange means consist of a heat exchanger (88) that is separated into three portions, and the device comprises a means for placing the first circuit in communication with the third circuit, the means being actuated on the basis of the temperature of the heat transfer fluid and on the basis of the flow of the heat transfer fluid inside the first circuit. The invention also relates to radiator for a hybrid vehicle.

IPC 8 full level
F01P 7/16 (2006.01)

CPC (source: EP US)
F01P 3/18 (2013.01 - EP US); **F01P 7/165** (2013.01 - EP US); **F28D 1/0417** (2013.01 - EP US); **F28D 1/0443** (2013.01 - EP US); **F28F 27/02** (2013.01 - EP US); **F01P 11/029** (2013.01 - EP US); **F01P 2050/24** (2013.01 - EP US); **F01P 2060/08** (2013.01 - EP US); **F01P 2060/18** (2013.01 - EP US)

Citation (search report)
See references of WO 2011045496A1

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 SE SI SK SM TR

DOCDB simple family (publication)
FR 2951114 A1 20110415; FR 2951114 B1 20111104; BR 112012007501 A2 20161122; BR 112012007501 B1 20201103; CN 102575567 A 20120711; CN 102575567 B 20150325; EP 2488737 A1 20120822; EP 2488737 B1 20141217; US 2012199313 A1 20120809; US 9238994 B2 20160119; WO 2011045496 A1 20110421

DOCDB simple family (application)
FR 0957165 A 20091013; BR 112012007501 A 20100921; CN 201080046170 A 20100921; EP 10770595 A 20100921; FR 2010051956 W 20100921; US 201013501670 A 20100921