

Title (en)  
THERMAL MANAGEMENT SYSTEM, VEHICLE, AND ASSOCIATED METHOD

Title (de)  
WÄRMEVERWALTUNGSSYSTEM, FAHRZEUG UND ZUGEHÖRIGES VERFAHREN

Title (fr)  
SYSTÈME DE GESTION THERMIQUE, VÉHICULE, ET PROCÉDÉ ASSOCIÉ

Publication  
**EP 2459857 A2 20120606 (EN)**

Application  
**EP 10739776 A 20100726**

Priority  
• US 22897009 P 20090727  
• US 2010043231 W 20100726

Abstract (en)  
[origin: WO2011017052A2] A system is provided that includes an engine coupled to an alternator, a radiator fan motor in electrical communication with the alternator, and that is mechanically decoupled from the engine, an energy storage device in electrical communication with the alternator and the radiator fan motor; and one or more traction motor in electrical communication with the energy storage device, the radiator fan motor, or both. Electricity provided through dynamic braking can power the radiator fan motor upon generation of the electricity, or it can be stored in the energy storage device for use later in powering the radiator fan motor

IPC 8 full level  
**F01P 3/18** (2006.01); **F01P 5/04** (2006.01); **F01P 7/04** (2006.01)

CPC (source: EP US)  
**F01P 3/18** (2013.01 - EP US); **F01P 5/04** (2013.01 - EP US); **F01P 7/04** (2013.01 - EP US); **F01P 2005/046** (2013.01 - EP US)

Citation (search report)  
See references of WO 2011017052A2

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)  
**WO 2011017052 A2 20110210; WO 2011017052 A3 20110505**; AU 2010281450 A1 20120216; BR 112012001774 A2 20190924; CL 2012000202 A1 20120831; CL 2015002317 A1 20160304; CN 102575561 A 20120711; EP 2459857 A2 20120606; IN 734DEN2012 A 20150619; JP 2013500433 A 20130107; US 2013239913 A1 20130919; ZA 201201043 B 20121227

DOCDB simple family (application)  
**US 2010043231 W 20100726**; AU 2010281450 A 20100726; BR 112012001774 A 20100726; CL 2012000202 A 20120125; CL 2015002317 A 20150819; CN 201080044268 A 20100726; EP 10739776 A 20100726; IN 734DEN2012 A 20120125; JP 2012522937 A 20100726; US 201013879716 A 20100726; ZA 201201043 A 20120213