

Title (en)

Method and device for cooling charge air

Title (de)

Vorrichtung und Verfahren zur Kühlung von Ladeluft

Title (fr)

Dispositif et procédé de refroidissement d'air de chargement

Publication

**EP 2357335 A3 20140101 (DE)**

Application

**EP 10195547 A 20101217**

Priority

- DE 102010004695 A 20100115
- DE 102010019695 A 20100507

Abstract (en)

[origin: EP2357335A2] The device has a supercharged air cooling circuit for cooling an intercooler (22), and an engine cooling circuit for cooling an internal combustion engine (10) i.e. diesel engine. A controller is provided for switching two different operations independent of temperature, where the cooling circuits are coupled with each another in different manner. The controller actuates a switching valve (26), which blocks a branch line (30) of the air cooling circuit and releases another branch line (32) of the air cooling circuit or releases the former branch line and blocks the latter branch line. An independent claim is also included for a method for cooling supercharged air in a motor vehicle.

IPC 8 full level

**F01P 3/12** (2006.01); **F01P 7/16** (2006.01)

CPC (source: EP)

**F01P 3/12** (2013.01); **F01P 7/167** (2013.01); **F01P 2060/02** (2013.01)

Citation (search report)

- [X] WO 2008080872 A1 20080710 - VALEO ENGINE COOLING AB [SE], et al
- [X] US 5353757 A 19941011 - SUSA SUMIO [JP], et al
- [XD] WO 2004090303 A1 20041021 - BEHR GMBH & CO KG [DE], et al

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)

BA ME

DOCDB simple family (publication)

**EP 2357335 A2 20110817; EP 2357335 A3 20140101**

DOCDB simple family (application)

**EP 10195547 A 20101217**