

Title (en)

AIR-CONDITIONING DEVICE AND METHOD FOR OPERATING THE SAME

Title (de)

KLIMAANLAGEVORRICHTUNG UND VERFAHREN ZU DEREN BETRIEB

Title (fr)

SYSTÈME DE CLIMATISATION ET PROCÉDÉ POUR FAIRE FONCTIONNER CE SYSTÈME

Publication

**EP 2648928 A1 20131016 (DE)**

Application

**EP 11773005 A 20111024**

Priority

- DE 102010062869 A 20101210
- EP 2011068536 W 20111024

Abstract (en)

[origin: WO2012076237A1] An air-conditioning device for the climate control of a plurality of components and of an interior of an electric vehicle, wherein the air-conditioning device comprises a plurality of fluid circuit units (10, 20, 30, 40) which are designed for heating and/or for cooling the electric vehicle, wherein a first fluid circuit unit (10) is formed for the climate control of a first component of the electric vehicle, wherein a second fluid circuit unit (20) is formed for the climate control of the interior of the electric vehicle, wherein a refrigerant circuit (30) is formed for climate control and dehumidification of the interior of the electric vehicle, and a third fluid circuit unit (40) is formed for utilizing the waste heat of the second heat source (42, 43).

IPC 8 full level

**B60H 1/00** (2006.01); **B60H 1/14** (2006.01)

CPC (source: EP US)

**B60H 1/00278** (2013.01 - EP US); **B60H 1/00392** (2013.01 - EP US); **B60H 1/00914** (2013.01 - EP US); **B60H 1/143** (2013.01 - EP US); **B60H 2001/00307** (2013.01 - EP US); **B60H 2001/00928** (2013.01 - EP US); **B60H 2001/00949** (2013.01 - EP US); **B60H 2001/00957** (2013.01 - EP US)

Citation (search report)

See references of WO 2012076237A1

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

DOCDB simple family (publication)

**DE 102010062869 A1 20120614**; CN 103282222 A 20130904; CN 103282222 B 20160706; EP 2648928 A1 20131016; JP 2014505615 A 20140306; JP 5678208 B2 20150225; US 2014053584 A1 20140227; US 9555691 B2 20170131; WO 2012076237 A1 20120614

DOCDB simple family (application)

**DE 102010062869 A 20101210**; CN 201180059110 A 20111024; EP 11773005 A 20111024; EP 2011068536 W 20111024; JP 2013542429 A 20111024; US 201113992986 A 20111024