

Title (en)

TEMPERATURE CONTROL ELEMENT AND TEMPERATURE CONTROL DEVICE FOR A VEHICLE

Title (de)

TEMPERIERELEMENT UND TEMPERIERVORRICHTUNG FÜR EIN FAHRZEUG

Title (fr)

ÉLÉMENT RÉGULATEUR DE TEMPÉRATURE ET DISPOSITIF RÉGULATEUR DE TEMPÉRATURE POUR UN VÉHICULE

Publication

EP 2552747 A1 20130206 (DE)

Application

EP 11712234 A 20110330

Priority

- DE 102010043620 A 20101109
- DE 102010027470 A 20100716
- DE 102010019794 A 20100506
- DE 102010013467 A 20100330
- EP 2011054878 W 20110330

Abstract (en)

[origin: WO2011124509A1] The invention relates to a temperature control element (105) for a vehicle, comprising a first Peltier element layer (110), a second Peltier element layer (115), a first electrically conductive heat conductor layer (120) for conducting a first heat transfer fluid and a second electrically conductive heat conductor layer (125) for conducting a second heat transfer fluid, wherein the first Peltier element layer (110), the second Peltier element layer (115), the first heat conductor layer (120), and the second heat conductor layer (125) are disposed in the form of a stack, so that the first heat conductor layer (120) and/or the second heat conductor layer (125) is disposed between the first Peltier element layer (110) and the second Peltier element layer (115), and wherein an electrical current conducted through the stack brings about a temperature control of the first heat conductor layer (120) and the second heat conductor layer (125) due to a Peltier effect.

IPC 8 full level

B60N 2/56 (2006.01); **H01L 35/32** (2006.01)

CPC (source: EP US)

B60N 2/5692 (2013.01 - EP US); **H10N 10/17** (2023.02 - EP US)

Citation (search report)

See references of WO 2011124509A1

Citation (examination)

US 7235735 B2 20070626 - VENKATASUBRAMANIAN RAMA [US], 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

DOCDB simple family (publication)

WO 2011124509 A1 201111013; CN 203246355 U 20131023; EP 2552747 A1 20130206; JP 2013524498 A 20130617; JP 6096656 B2 20170315; US 2013025295 A1 20130131

DOCDB simple family (application)

EP 2011054878 W 20110330; CN 201190000398 U 20110330; EP 11712234 A 20110330; JP 2013501822 A 20110330; US 201213632468 A 20121001