

Title (en)

ACTIVE HEAT FLOW CONTROL WITH THERMOELECTRIC LAYERS

Title (de)

AKTIVE WÄRMEFLUSSSTEUERUNG MIT THERMOELEKTRISCHEN SCHICHTEN

Title (fr)

COMMANDE DE FLUX DE CHALEUR ACTIVE AVEC COUCHES THERMOÉLECTRIQUES

Publication

EP 3111295 A1 20170104 (EN)

Application

EP 15713037 A 20150213

Priority

- US 201414189823 A 20140225
- US 2015015874 W 20150213

Abstract (en)

[origin: US2015241092A1] Methods and apparatuses for controlling heat flow in a mobile system. The method includes determining a temperature value for each of at least one temperature sensors. The method determines a delta value of a current temperature threshold at each of the plurality of locations. The method maps each delta value to a thermal module. The method calculates a heat flow direction signal to minimize positive delta values using at least one of the following: a system level model and an IC level thermal model. The method transmits the heat flow direction signal to at least one thermoelectric module, wherein the thermoelectric module is associated with more than one temperature sensor.

IPC 8 full level

G06F 1/20 (2006.01); **H10N 10/10** (2023.01)

CPC (source: CN EP KR US)

F25B 21/02 (2013.01 - KR US); **F25B 21/04** (2013.01 - KR US); **G06F 1/203** (2013.01 - CN EP KR US); **G06F 1/206** (2013.01 - CN EP KR US); **F25B 2321/021** (2013.01 - KR US)

Citation (examination)

- JP 2004013685 A 20040115 - FUJITSU LTD
- US 2008101038 A1 20080501 - ALI IHAB A [US]
- See also references of WO 2015130493A1

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

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US 2015241092 A1 20150827; CN 106030449 A 20161012; CN 106030449 B 20190326; EP 3111295 A1 20170104; JP 2017517777 A 20170629; KR 20160124869 A 20161028; WO 2015130493 A1 20150903

DOCDB simple family (application)

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