

Title (en)

THERMOELECTRIC DEVICE, IN PARTICULAR INTENDED TO GENERATE AN ELECTRIC CURRENT IN A MOTOR VEHICLE

Title (de)

THERMOELEKTRISCHE VORRICHTUNG, IM BESONDEREN ZUR STROMERZEUGUNG BEI EINEM KRAFTFAHRZEUG

Title (fr)

DISPOSITIF THERMO ELECTRIQUE, NOTAMMENT DESTINE A GENERER UN COURANT ELECTRIQUE DANS UN VEHICULE AUTOMOBILE

Publication

EP 2622659 A1 20130807 (FR)

Application

EP 11741433 A 20110728

Priority

- FR 1057875 A 20100929
- EP 2011063029 W 20110728

Abstract (en)

[origin: WO2012041561A1] The invention relates to a thermoelectric device comprising: pipes (8), known as hot pipes, through which a first fluid can flow; and elements (3p, 3n), known as thermoelectric elements, which can be used to generate an electric current in the presence of a temperature gradient. According to the invention, the device includes fins (5p, 5n) which can be configured in a heat exchange relationship with pipes (9), known as cold pipes, through which a second fluid can flow at a temperature below that of the first fluid. In addition, the thermoelectric elements (3p, 3n) are in contact with the hot pipes (8) and the fins (5p, 5n), such that said thermoelectric elements (3p, 3n) generate the above-mentioned current.

IPC 8 full level

H10N 10/13 (2023.01); **H10N 10/17** (2023.01)

CPC (source: EP US)

H10N 10/13 (2023.02 - EP US); **F01N 5/025** (2013.01 - EP US)

Citation (examination)

JP 2009194299 A 20090827 - KOMATSU MFG CO LTD

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)

FR 2965400 A1 20120330; FR 2965400 B1 20120914; EP 2622659 A1 20130807; JP 2013545270 A 20131219; JP 5909235 B2 20160426; US 2014007916 A1 20140109; US 9698330 B2 20170704; WO 2012041561 A1 20120405

DOCDB simple family (application)

FR 1057875 A 20100929; EP 11741433 A 20110728; EP 2011063029 W 20110728; JP 2013530642 A 20110728; US 201113876685 A 20110728