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 ÉLECTRIQUE, NOTAMMENT DESTINÉ À GÉNÉRER UN COURANT ÉLECTRIQUE DANS UN VÉHICULE AUTOMOBILE

Publication

EP 2622655 A1 20130807 (FR)

Application

EP 11736115 A 20110728

Priority

- FR 1057879 A 20100929
- EP 2011063021 W 20110728

Abstract (en)

[origin: WO2012041558A1] The invention relates to a thermoelectric device comprising: a first circuit (1), or hot circuit, through which a first fluid can flow; a second circuit (2), or cold circuit, through which a second fluid can flow at a temperature below that of the first fluid; 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 (5f) disposed in a heat exchange relationship with the hot circuit (1) and/or the cold circuit (2), said thermoelectric elements (3p, 3n) being in contact at least with the fins (5f) which are provided with strip conductors (32) for the current generated by the thermoelectric elements.

IPC 8 full level

H01L 35/30 (2006.01)

CPC (source: EP US)

H10N 10/13 (2023.02 - EP US); F28F 1/32 (2013.01 - EP US)

Citation (search report)

See references of WO 2012041558A1

Citation (examination)

JP H11312829 A 19991109 - NISSAN MOTOR

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 2965403 A1 20120330; **FR 2965403 B1 20120914**; EP 2622655 A1 20130807; JP 2013545268 A 20131219; JP 6111472 B2 20170412; US 2014026932 A1 20140130; US 9209376 B2 20151208; WO 2012041558 A1 20120405

DOCDB simple family (application)

FR 1057879 A 20100929; EP 11736115 A 20110728; EP 2011063021 W 20110728; JP 2013530639 A 20110728; US 201113876726 A 20110728