

Title (en)

METHOD FOR MANUFACTURING A THERMOELECTRIC DEVICE, ESPECIALLY INTENDED TO GENERATE AN ELECTRICAL CURRENT IN AN AUTOMOTIVE VEHICLE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER THERMOELEKTRISCHEN VORRICHTUNG, IM BESONDEREN ZUR ERZEUGUNG VON STROM BEI EINEM KRAFTFAHRZEUG

Title (fr)

PROCÉDÉ DE FABRICATION D'UN DISPOSITIF THERMO ÉLECTRIQUE, NOTAMMENT DESTINÉ À GÉNÉRER UN COURANT ÉLECTRIQUE DANS UN VÉHICULE AUTOMOBILE

Publication

EP 2622656 A1 20130807 (FR)

Application

EP 11736382 A 20110728

Priority

- FR 1057877 A 20100929
- EP 2011063026 W 20110728

Abstract (en)

[origin: WO2012041560A1] The invention relates to a method for manufacturing a thermoelectric device comprising: a first circuit (1), called the hot circuit, able to make a first fluid flow; a second circuit (2), called the cold circuit, able to make a second fluid flow that has a temperature lower than that of the first fluid; elements (3p, 3n), called thermoelectric elements, that allow an electrical current to be generated in the presence of a temperature gradient; and fins (5) in heat exchange relationship with said hot circuit (1) and/or said cold circuit (2), the thermoelectric elements (3p, 3n) at least making contact with said fins (5). In the method according to the invention, said fins are compressed (5) so as to ensure said thermoelectric elements (3p, 3n) are kept against said fins (5).

IPC 8 full level

H10N 10/01 (2023.01); **H10N 10/13** (2023.01); **H10N 10/17** (2023.01)

CPC (source: EP US)

H10N 10/01 (2023.02 - EP US); **H10N 10/13** (2023.02 - EP US); **F28F 1/32** (2013.01 - EP US); **Y10T 29/49002** (2015.01 - EP US)

Citation (examination)

- JP 2009194299 A 20090827 - KOMATSU MFG CO LTD
- JP 2007243050 A 20070920 - MORIX CO LTD
- See also references of WO 2012041560A1

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 2965404 A1 20120330; **FR 2965404 B1 20120914**; EP 2622656 A1 20130807; JP 2013545269 A 20131219; US 2013309798 A1 20131121; US 9349934 B2 20160524; WO 2012041560 A1 20120405

DOCDB simple family (application)

FR 1057877 A 20100929; EP 11736382 A 20110728; EP 2011063026 W 20110728; JP 2013530641 A 20110728; US 201113876702 A 20110728