

Title (en)
THERMOELECTRIC ASSEMBLY AND DEVICE, IN PARTICULAR FOR GENERATING AN ELECTRIC CURRENT IN A MOTOR VEHICLE

Title (de)
THERMOELEKTRISCHE ANORDNUNG UND VORRICHTUNG, INSBESONDERE ZUR ERZEUGUNG VON ELEKTRISCHEM STROM IN EINEM KRAFTFAHRZEUG

Title (fr)
ENSEMBLE ET DISPOSITIF THERMO ÉLECTRIQUE, NOTAMMENT DESTINÉ À GÉNÉRER UN COURANT ÉLECTRIQUE DANS UN VÉHICULE AUTOMOBILE

Publication
EP 2691995 A1 20140205 (FR)

Application
EP 12713108 A 20120329

Priority
• FR 1152699 A 20110331
• EP 2012055743 W 20120329

Abstract (en)
[origin: WO2012131012A1] The invention relates to an assembly of a plurality of tubes (1, 2) for circulating a fluid extending parallel to one another, and a plurality of so-called thermoelectric elements (3) enabling an electric current to be produced from a temperature gradient applied between two of the surfaces (4a, 4b) thereof, referred to as contact surfaces, said thermoelectric elements (3) being distributed over said plurality of tubes (1, 2) with which the thermoelectric elements are in contact via one (4a) of the contact surfaces thereof, said assembly being configured so as to enable the installation of tubes for circulating another fluid, which are intended to be in contact with said thermoelectric elements (3) via the other (4a) contact surface thereof, and extending in direction that is a secant relative to the direction in which the fluid-circulation tubes (1, 2) of said assembly extend. The invention also relates to a thermoelectric device provided with a stack of such assemblies.

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); **H10N 10/17** (2023.02 - EP US)

Citation (examination)
• US 3196620 A 19650727 - ELFVING THORE M, et al
• US 4802929 A 19890207 - SCHOCK ALFRED [US]
• US 2010031987 A1 20100211 - BELL LON E [US], et al
• See also references of WO 2012131012A1

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 2012131012 A1 20121004; EP 2691995 A1 20140205; FR 2973577 A1 20121005; FR 2973577 B1 20130426; JP 2014515914 A 20140703; JP 6009534 B2 20161019; US 2014338714 A1 20141120

DOCDB simple family (application)
EP 2012055743 W 20120329; EP 12713108 A 20120329; FR 1152699 A 20110331; JP 2014501644 A 20120329; US 201214008608 A 20120329