

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

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Application  
**EP 12713108 A 20120329**

Priority  
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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.

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**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

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