

Title (en)
THERMOELECTRIC AIR-CONDITION APPARATUS

Title (de)
THERMOELEKTRISCHES KLIMAGERÄT

Title (fr)
APPAREIL DE CONDITIONNEMENT D'AIR THERMOELECTRIQUE

Publication
EP 1090258 A4 20020227 (EN)

Application
EP 98925913 A 19980615

Priority
IL 9800281 W 19980615

Abstract (en)
[origin: WO9966275A1] A thermoelectric air conditioning apparatus (100) is comprised of a housing (80) having a plurality of air inlets (82, 86) and a plurality of air outlets (84, 88); a plurality of thermoelectric elements (10-18); two heat exchangers (50, 60); a temperature regulator (90), having first (92) and second air inlets (94), a main air outlet (96) and at least one exhaust outlet (98); two air circulation units (70, 76) and a control unit (160). Thermoelectric elements (10-18) are energized, and cause a reduction of temperature on one side and an increase of temperature on the other side. One air flow is forced to flow through one of the housing air inlets, over a heat exchanger and to the first air outlet of the temperature regulator. Another air flow is forced to flow through one of the housing inlets, over the other heat exchanger and to the second air outlet of the temperature regulator. The temperature of the air leaving the main outlet (96) of the temperature regulator is determined by proportioning the flow of air from the first air inlet of the temperature regulator and the air flow from the second air inlet of the temperature regulator into and through the main outlet of the temperature regulator.

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CPC (source: EP)
F24F 5/0042 (2013.01); **F25B 21/02** (2013.01)

Citation (search report)
• [Y] US 4905475 A 19900306 - TUOMI DONALD [US]
• [Y] US 4011890 A 19770315 - ANDERSSON LENNART VALENTIN [SE]
• [A] EP 0370246 A2 19900530 - HAGENUK TELECOM GMBH [DE]
• [A] EP 0423076 A2 19910417 - ENEA [IT]
• [A] US 3809151 A 19740507 - SCHEIDEL W, et al
• See references of WO 9966275A1

Designated contracting state (EPC)
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WO 9966275 A1 19991223; AU 7786598 A 20000105; EP 1090258 A1 20010411; EP 1090258 A4 20020227

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