

Title (en)

Air conditioning device with thermoelectric elements

Title (de)

Klimaanlage mit thermoelektrischen Elementen

Title (fr)

Système de climatisation pourvue d'éléments thermoelectriques

Publication

EP 1767874 A1 20070328 (EN)

Application

EP 05025317 A 20051121

Priority

CN 05229231 U 20050923

Abstract (en)

The present invention mainly utilizes a specialized semiconductor chip, the so-called thermoelectric cooling chip, for producing the coldness. A cooling circulating member and a heat dissipating member are configured at the two sides of the thermoelectric cooling chip. The coldness produced by the thermoelectric cooling chip is delivered by a cold conduction plate and cooling pipes, and is stored in fins of the cooling circulating member. A temperature controller determines a desired temperature and the coldness stored in the fins are blown out as cool air by a fan. Similarly, the heat produced by the chip is dissipated by the heat dissipating member. As such, the present invention could reach the desired temperature within a short period of time without the conventional compressor. The present invention therefore is easier to install and transport, consumes less power, and produces almost no noise and pollution to the environment.

IPC 8 full level

F24F 5/00 (2006.01); **F25B 21/02** (2006.01); **H10N 10/13** (2023.01)

CPC (source: EP)

F25B 21/02 (2013.01)

Citation (search report)

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

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DOCDB simple family (publication)

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