

Title (en)

Centrifuge including improved thermoelectric temperature control assembly.

Title (de)

Zentrifuge mit thermoelektrischer Temperaturregelungseinheit.

Title (fr)

Centrifuge avec un assemblage thermo-électrique de commande de la température.

Publication

EP 0335475 B1 19940504

Application

EP 89201159 A 19850318

Priority

- EP 85901768 A 19850318
- US 60536084 A 19840430

Abstract (en)

[origin: EP0335475A2] A thermoelectric temperature control assembly for transferring heat to or from a heat sink (30) in a centrifuge of the type having a rotor (14), a temperature controlled vessel, and a housing (20, 22, 24, 26) enclosing the vessel (18). A plurality of thermoelectric devices (50, 52, 54) are mounted in an electrically and thermally nonconducting substrate (40) located between the vessel (18) and the heat sink (30) such that the upper and lower surfaces of the devices (50, 52, 54) are in direct thermal contact with the vessel (18) and heat sink (30) respectively. The weight of the vessel (18) lessens the thermal resistance of the thermal contacts, and this effect may be enhanced by providing mechanical means (19, 21), supported by the housing (20, 22, 24, 26) for pressing the vessel (18) downwardly against the devices (50, 52, 54).

IPC 1-7

B04B 15/02

IPC 8 full level

B04B 15/02 (2006.01); **F25B 21/02** (2006.01)

CPC (source: EP)

B04B 15/02 (2013.01); **F25B 21/02** (2013.01)

Citation (examination)

US 3444695 A 19690520 - WAYE WILLIAM E, et al

Cited by

CN113083517A; DE4341333B4; US2017189916A1; US10894260B2; AT525851A2; AT525851A3; AT525851B1; US9018511B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 0335475 A2 19891004; EP 0335475 A3 19910102; EP 0335475 B1 19940504

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