

Title (en)

Process and control system for a reversible heat pump including thermoelectric modules

Title (de)

Verfahren und Kontrollsystem einer Wärmepumpe mit thermoelektrischen Modulen

Title (fr)

Procédé et système de contrôle d'une pompe à chaleur reversible à modules thermoélectriques

Publication

**EP 2336679 B1 20120704 (FR)**

Application

**EP 10192654 A 20101126**

Priority

FR 0959196 A 20091218

Abstract (en)

[origin: EP2336679A1] The system has an electric supply unit (10) connected to an electric current source (8), where the supply unit comprises output connections (S1-S4) for delivering supply voltage to heat transfer thermoelectric units (41-44) e.g. Peltier effect cell. A control device (6) is connected to switches, where the control device controls different switching configurations of the switches for selectively powering the thermoelectric units and selecting supplying of predetermined voltage level to the thermoelectric units. Independent claims are also included for the following: (1) a thermoelectric reversible heat pump comprising an exchanger (2) a method for controlling a thermoelectric reversible heat pump.

IPC 8 full level

**F25B 21/04** (2006.01)

CPC (source: EP)

**F25B 21/04** (2013.01); **F24F 5/0042** (2013.01); **F25B 2321/0212** (2013.01); **F25B 2321/0252** (2013.01); **F25B 2700/2106** (2013.01); **F25B 2700/2107** (2013.01)

Cited by

GB2540344A; CN116007226A; US10539347B2; WO2022228925A1

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DOCDB simple family (publication)

**EP 2336679 A1 20110622; EP 2336679 B1 20120704**; FR 2954476 A1 20110624

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