

Title (en)

Method and device for regulating the temperature of a fluid medium

Title (de)

Verfahren und Vorrichtung zur Regelung der Temperatur eines fluiden Mediums

Title (fr)

Procédé et dispositif destinés à la régulation de la température d'un milieu fluide

Publication

EP 2515057 B1 20200212 (DE)

Application

EP 12162842 A 20120402

Priority

DE 102011018345 A 20110420

Abstract (en)

[origin: EP2515057A1] The method involves supplying a fluid state refrigerant e.g. liquid nitrogen, to a vertically arranged heat exchanger (6) i.e. tube heat exchanger, and vaporizing the refrigerant in the heat exchanger. A fluid medium is fed with the condensed refrigerant through the heat exchanger by direct current. Temperature of the fluid medium is controlled by varying pressure of the condensed refrigerant in the heat exchanger, to a value among vacuum pressure and 1-10 bars. Heat transfer to the refrigerant is controlled by varying a filling level of the condensed refrigerant in the heat exchanger. An independent claim is also included for a device for controlling temperature of a fluid medium.

IPC 8 full level

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CPC (source: EP)

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