

Title (en)

DEVICE AND METHOD FOR STORING AND REGENERATING A TWO-PHASE COOLANT FLUID

Title (de)

VERFAHREN UND VORRICHTUNG ZUM SPEICHERN UND REGENERIEREN EINES ZWEIPHASIGEN KÄLTETRÄGERS

Title (fr)

DISPOSITIF ET PROCEDE DE STOCKAGE ET DE REGENERATION D'UN FLUIDE FRIGO-PORTEUR SOUS FORME DIPHASIQUE

Publication

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Application

**EP 02758526 A 20020701**

Priority

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Abstract (en)

[origin: WO03004949A1] The invention concerns a device for storing a two-phase coolant fluid (4) designed to circulate in a heat transfer circuit (10), comprising: a compartment (2) for storing and regenerating the two-phase coolant fluid; at least an indirect heat exchange means (6) between a refrigerant and the coolant fluid (4); a circulating means (8) to circulate the coolant fluid (4) in the heat transfer circuit (10); a two-phase recycling and cooling circuit for the coolant fluid (4). Said device comprises: another compartment for ice slurry conditioning (20), connected to the heat transfer circuit (10); means for introducing part of the coolant fluid (4), enriched in solid phase, into said other compartment; a drawpoint (24) on the storage and regeneration compartment (2), and means for injecting (26, 28) the coolant fluid in liquid phase, into said other compartment; and a mixing member, co-operating with said other compartment.

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