

Title (en)

METHOD FOR REMOVING ICE CRYSTALS IN A HEAT EXCHANGER GENERATING A DIPHASIC LIQUID-SOLID REFRIGERANT

Title (de)

VERFAHREN ZUR LÖSUNG VON EISKRISTALLEN IN EINEM WÄRMETAUSCHER MIT ZWEIPHASIGEN FEST-FLÜSSIG KÄLTETRÄGER

Title (fr)

PROCEDE POUR DETACHER LES CRISTAUX DE GLACE D'UN ECHANGEUR THERMIQUE GENERATEUR D'UN FRIGOPORTEUR
DIPHASIQUE LIQUIDE-SOLIDE

Publication

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Application

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Abstract (en)

[origin: WO0071945A1] The invention concerns a method for removing ice crystals which are formed on the surface of the heat-exchanging walls (2) of a generator (1), in contact with a diphasic liquid-solid refrigerant fluid. In order to remove the ice crystals formed, it consists in intermittently circulating in the generator (1) the refrigerant fluid at a speed higher than the nominal speed so as to generate turbulent flows which cause the formed ice crystals to be detached, by being pulled off and by heating the heat-exchanging walls. Preferably the rotational speed of the pump (8) circulating the refrigerant fluid is increased intermittently.

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