

Title (en)

Device for heat exchange with a fluid which is partially freezing

Title (de)

Vorrichtung zur Wärmeübergabe mit einem Fluid während seines teilweisen Gefrierens

Title (fr)

Dispositif d'échange de chaleur avec un fluide en cours de congélation partielle

Publication

EP 0641980 B1 19960717 (FR)

Application

EP 94420241 A 19940908

Priority

FR 9310887 A 19930908

Abstract (en)

[origin: EP0641980A1] The present invention relates to a device for heat exchange between a coolant fluid (1) undergoing vaporisation and a fluid (2) to be cooled which is undergoing freezing. According to the invention, the device comprises a duct (3) for the fluid to be cooled, a casing (7) which forms, around the duct (3), an enclosure (8) for passage of the coolant fluid, and a mechanical means (11) for separating the wall (6) of the duct (3) from any solid phase in the fluid to be cooled, which mechanical means (11) consists of a rotor (12) provided with flexible radial filaments (14). The invention applies in particular to obtaining homogeneous mixtures of water and of ice. <IMAGE>

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IPC 8 full level

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CPC (source: EP US)

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CN113503755A; US5884501A; US6286332B1; FR2833340A1; WO9740329A1; US8132424B2

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