Title (en)

Device for producing ice crystals in an aqueous solution

Title (de)

Vorrichtung zum Erzeugen von Eiskristallen in einer wässrigen Lösung

Title (fr)

Dispositif pour la production de cristaux de glace dans une solution aqueuse

Publication

EP 1602887 A3 20110615 (DE)

Application

EP 05011791 A 20050601

Priority

DE 202004008732 U 20040602

Abstract (en)

[origin: EP1602887A2] A method for producing ice crystals in an aqueous fluid has a double walled cooling cylinder (2, 3) with a rotor with radial scrapers to remove ice crystals formed on the inner wall of the chamber. The rotor drive (17) is located through the top flange of the chamber via an elastic seal (20) and is connected to the rotor via a claw coupling (14, 15) with one part (15) connected to the drive and the other part to the rotor. The coupling accommodates any non circular movements of the rotor and replaces costly bearings.

IPC 8 full level

F25C 1/14 (2006.01)

CPC (source: EP)

F25C 1/145 (2013.01)

Citation (search report)

- [Y] US 2986903 A 19610606 - KOCHER ERICH J, et al
- [Y] DE 6608220 U 19710715 - LICENTIA GMBH [DE]
- [A] US 2080639 A 19370518 - TAYLOR WILLIAM H
- [A] GB 874295 A 19610802 - VILTER MFG CO
- [A] US 2307311 A 19430105 - VILTER ERNEST F, et al
- [A] DE 608910 C 19350417 - HANS SCHAMEL DIPL ING
- [A] US 2943461 A 19600705 - DAVIS VIRGEL A
- [A] DE 930520 C 19550718 - GRAM BRDR AS
- [A] US 2706385 A 19550419 - TOPPING FRANK W
- [AD] DE 10113395 C1 20020808 - INTEGRAL ENERGIETECHNIK GMBH [DE]
- [A] DE 19855593 A1 20000621 - ZAHNRADFABRIK FRIEDRICHSHAFEN [DE]
- [A] DE 29808627 U1 19980723 - POWER TRANSMISSION COMPANY N V [BE]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

DE 202004008732 U1 20040902; EP 1602887 A2 20051207; EP 1602887 A3 20110615

DOCDB simple family (application)

DE 202004008732 U 20040602; EP 05011791 A 20050601