

Title (en)

DEVICE FOR PRODUCING ICE BALLS AND APPLICATION TO THE PROJECTION OF SUCH ICE BALLS FOR SURFACE TREATMENTS.

Title (de)

VORRICHTUNG ZUR HERSTELLUNG VON EISKUGELN UND ANWENDUNG DERSELBEN ZWECKS OBERFLÄCHENBEHANDLUNG.

Title (fr)

DISPOSITIF DE FABRICATION DE BILLES DE GLACE ET APPLICATION A LA PROJECTION DE CES BILLES DE GLACE POUR LES TRAITEMENTS DE SURFACE.

Publication

EP 0412111 B1 19940413

Application

EP 89905697 A 19890427

Priority

- FR 8805692 A 19880428
- FR 8900204 W 19890427

Abstract (en)

[origin: WO8910522A1] The invention relates to the in situ fabrication of ice balls and the projection of such ice balls against objects to be treated. The device comprises a water injector (2) having a great number of holes (4) to create a spectrum of droplets in the exchange column (6), supplied with cold gas and wherein the droplets start to solidify; a receptacle (8) supporting the exchange column (6) comprising a ramp (12) to supply a coolant into a cone (10) for receiving the ice balls wherein they solidify completely, and an evacuation orifice (14); an extraction screw (16); a cold gas inlet (20) on top of such extraction screw (16) to push the balls towards a projection nozzle (26). Application to the cleaning and contamination by projection.

IPC 1-7

F25C 1/00

IPC 8 full level

B24C 1/00 (2006.01); **B24C 7/00** (2006.01); **F25C 1/00** (2006.01)

CPC (source: EP KR)

B24C 1/003 (2013.01 - EP); **B24C 7/0092** (2013.01 - EP); **F25C 1/00** (2013.01 - EP KR)

Cited by

EP4397437A1; AT411233B

Designated contracting state (EPC)

BE DE FR GB IT NL

DOCDB simple family (publication)

WO 8910522 A1 19891102; CA 1331698 C 19940830; DE 68914657 D1 19940519; DE 68914657 T2 19941013; EP 0412111 A1 19910213; EP 0412111 B1 19940413; ES 2011566 A6 19900116; FR 2630668 A1 19891103; FR 2630668 B1 19901116; KR 900700833 A 19900817

DOCDB simple family (application)

FR 8900204 W 19890427; CA 597895 A 19890426; DE 68914657 T 19890427; EP 89905697 A 19890427; ES 8901496 A 19890428; FR 8805692 A 19880428; KR 890702439 A 19891226