

Title (en)

SNOW, ICE PARTICLE GENERATOR, OR NUCLEATION DEVICE, INTEGRATED IN A PRESSURISED WATER SPRAY HEAD FOR MAKING ARTIFICIAL SNOW

Title (de)

ERZEUGER FÜR EISPARTIKEL, SCHNEEPARTIKEL, ODER WASSER-LUFT DÜSE INTEGRIERT IM WASSERSPRÜHKOPF

Title (fr)

GENERATEUR DE PARTICULES DE GLACE, DE NEIGE, OU NUCLEATEUR, INTEGRE DANS UNE TETE DE PULVERISATION D'EAU

Publication

EP 1053440 A1 20001122 (FR)

Application

EP 99902606 A 19990205

Priority

- FR 9900258 W 19990205
- FR 9801581 A 19980206
- FR 9813477 A 19981023

Abstract (en)

[origin: WO9940381A1] The invention concerns a nucleation device associated with a spray head (1) and operating by either internal mixing or external mixing. The ratio air/water is not less than 200 and the pressurised water is supplied by the spray head nozzles (11), which, by the simple circulation of water, at the nucleation device (27), prevents freezing problems. Said nucleation device comprises means in the shape of a spray tip for high speed spraying (11) of compressed air and in the shape small diameter nozzles (13) for spraying pressurised water into the air stream. In one embodiment, the nucleation device is in the form of a mini snowmaker (52).

IPC 1-7

F25C 3/04

IPC 8 full level

B05B 1/14 (2006.01); **B05B 7/08** (2006.01); **F25C 3/04** (2006.01)

CPC (source: EP US)

B05B 1/14 (2013.01 - EP US); **B05B 7/0807** (2013.01 - EP US); **F25C 3/04** (2013.01 - EP US); **F25C 2303/0481** (2013.01 - EP US)

Citation (search report)

See references of WO 9940381A1

Cited by

EP3819566A1; FR3103030A1

Designated contracting state (EPC)

AT CH DE ES FR IT LI SE

DOCDB simple family (publication)

WO 9940381 A1 19990812; AT E257935 T1 20040115; AU 2284199 A 19990823; CA 2319692 A1 19990812; DE 69914182 D1 20040219; EP 1053440 A1 20001122; EP 1053440 B1 20040114; JP 2002502951 A 20020129; NO 20003957 D0 20000804; NO 20003957 L 20001005; NO 312380 B1 20020429; US 6508412 B1 20030121

DOCDB simple family (application)

FR 9900258 W 19990205; AT 99902606 T 19990205; AU 2284199 A 19990205; CA 2319692 A 19990205; DE 69914182 T 19990205; EP 99902606 A 19990205; JP 2000530751 A 19990205; NO 20003957 A 20000804; US 60168000 A 20001023