

Title (en)

Automatic ice making machine

Title (de)

Automatische Eisherstellungsmaschine

Title (fr)

Machine de fabrication automatique de glace

Publication

EP 1209428 A1 20020529 (EN)

Application

EP 01127560 A 20011119

Priority

- JP 2000354718 A 20001121
- US 44717203 A 20030528

Abstract (en)

An automatic ice making machine stably injects water to be frozen to freezing cells to produce high-quality ice pieces which are uniform in shape and size, and has a freezing section 12 defining a plurality of freezing cells 10 opening downward and arranged horizontally, and a water tank 18 located under the freezing section 12. A water spraying member 26 tilted at a predetermined angle in the flow direction is disposed on the water tank 18, and a plurality of nozzles 30 protrude from the upper surface of a distributor pipe 28 constituting the member 26. The water to be frozen supplied to the water spraying member 26 by a water circulation pump is adapted to be injected into each freezing cell 10 through a water injection hole 80a of each nozzle 30 under the same pressure. Further, the water to be frozen injected from each water injection hole 30a diagonally forward is designed to be supplied to an opposed freezing cell 10. <IMAGE>

IPC 1-7

F25C 1/04

IPC 8 full level

F25C 1/22 (2006.01); **F25C 1/04** (2006.01)

CPC (source: EP US)

F25C 1/045 (2013.01 - EP US)

Citation (search report)

- [PA] EP 1152197 A1 20011107 - HOSHIZAKI ELECTRIC CO LTD [JP]
- [A] US 4505130 A 19850319 - HIBINO TAKASHI [JP], et al
- [A] US 2656686 A 19531027 - BAYSTON JOHN R
- [A] JP S63201465 A 19880819 - CHUGAI RO KOGYO KAISHA LTD
- [A] GB 2021746 A 19791205 - ICETIME SA
- [A] US 2729070 A 19560103 - AMES WARD A

Cited by

US6647739B1; WO2024151233A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 1209428 A1 20020529; **EP 1209428 B1 20030514**; DE 60100272 D1 20030618; DE 60100272 T2 20040408; JP 2002162137 A 20020607; US 2004237567 A1 20041202

DOCDB simple family (application)

EP 01127560 A 20011119; DE 60100272 T 20011119; JP 2000354718 A 20001121; US 44717203 A 20030528