

Title (en)  
APPARATUS AND METHOD FOR GENERATING ICE PELLETS

Title (de)  
VORRICHTUNG UND VERFAHREN ZUR ERZEUGUNG VON EISPELLETS

Title (fr)  
APPAREIL ET PROCÉDÉ DE GÉNÉRATION DE GRANULES DE GLACE

Publication  
**EP 3705230 A1 20200909 (EN)**

Application  
**EP 20159291 A 20200225**

Priority  
GB 201902893 A 20190304

Abstract (en)  
An apparatus and method for generating ice pellets, in particular for controlling the properties of the generated ice pellets. The apparatus comprises a pellet generation region; at least one nozzle configured to supply a plurality of water droplets to the pellet generation region; a liquefied gas supply configured to deliver a liquefied gas to the pellet generation region to thereby freeze the water droplets to generate a plurality of ice pellets; at least one temperature measuring device configured to obtain data indicative of the temperature of the ice pellets at generation; and a control system configured to adjust the flow rate of water and/or liquefied gas to thereby control the temperature of the ice pellets at generation.

IPC 8 full level  
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Citation (search report)

- [XY] US 5283989 A 19940208 - HISASUE AKIKO [JP], et al
- [Y] US 5445553 A 19950829 - CRYER MICHAEL A [US], et al
- [Y] US 2013139853 A1 20130606 - SOLENTHALER JUERG [CH], et al
- [Y] WO 2007054312 A1 20070518 - LINDE AG [DE], et al
- [Y] US 6024304 A 20000215 - SAWADA NOBORU [JP]
- [Y] US 4748817 A 19880607 - OURA HIROYUKI [JP], et al
- [Y] DE 102011008139 A1 20120712 - TQ SYSTEMS GMBH [DE]
- [A] US 6494049 B1 20021217 - JONES STAN [US], et al
- [A] US 5196049 A 19930323 - COOMBS JEFFREY S [GB], et al
- [A] US 7464564 B2 20081216 - WHITESIDE ADAM [US], et al

Designated contracting state (EPC)  
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