

Title (en)

Automatic ice bagger with self-contained sanitizing system

Title (de)

Vorrichtung zum automatischen Verpacken von Eis in Beuteln mit einem integrierten System zum Reinigen und Desinfizieren

Title (fr)

Ensacheuse automatique de glace à système d'assainissement intégré

Publication

EP 1020355 A8 20010627 (EN)

Application

EP 00105810 A 19941029

Priority

- EP 95901722 A 19941029
- US 14543493 A 19931029

Abstract (en)

[origin: US5630310A] An ice bagger comprises an ice maker, an ice bagging unit which includes an automatic sanitation system, and a merchandiser. The ice maker delivers particulate ice into a hopper housed within the ice bagging unit. The ice bagging unit includes a bag carrier which retrieves a bag from a bag supply and opens the bag underneath a delivery chute communicating with the hopper via an auger. A scale supports the bag during its filling to measure the weight of the ice delivered into the bag from the hopper. When the scale registers the desired amount of ice, the auger ceases to deliver ice from the hopper into the delivery chute. The ice bagging unit further includes a sealer arm and heating element wherein, after the bag is filled, the sealer arm pivots to detach the bag from the bag carrier and force both sides of the open end of the bag against the heating element. The heating element then activates to seal the bag closed. Once the bag has been closed, the scale pivots to deliver the sealed bag of ice into the merchandiser while the sealer arm raises to its original position. The above cycle then repeats to fill another bag with ice. Additionally, the ice bagger further comprises a sanitizing system which periodically activates to sanitize the hopper.

IPC 1-7

B65B 5/06; **B65B 3/28**; **F25C 5/00**

IPC 8 full level

B65B 1/32 (2006.01); **B65B 3/28** (2006.01); **B65B 5/06** (2006.01); **B65B 43/46** (2006.01); **B65B 55/10** (2006.01); **F25C 1/14** (2006.01); **F25C 5/00** (2006.01); **F25C 5/16** (2006.01); **F25C 5/18** (2006.01)

CPC (source: EP US)

B65B 1/32 (2013.01 - EP US); **B65B 3/28** (2013.01 - EP US); **B65B 5/067** (2013.01 - EP US); **B65B 43/465** (2013.01 - EP US); **B65B 51/146** (2013.01 - EP US); **F25C 5/00** (2013.01 - EP US); **F25C 5/18** (2013.01 - EP US); **F25C 5/20** (2017.12 - EP US); **G01G 13/026** (2013.01 - EP US); **G07F 13/04** (2013.01 - EP US); **G07F 13/10** (2013.01 - EP US); **F25D 2331/801** (2013.01 - EP US)

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

US 5630310 A 19970520; AU 1085095 A 19950522; AU 3746597 A 19971204; AU 683707 B2 19971120; AU 691453 B2 19980514; BR 9407927 A 19961126; CA 2175055 A1 19950504; CA 2175055 C 19990824; CN 1061308 C 20010131; CN 1137254 A 19961204; CN 1289707 A 20010404; DE 69429869 D1 20020321; DE 69429869 T2 20020822; DE 69433416 D1 20040122; EP 0725747 A1 19960814; EP 0725747 A4 19980902; EP 0725747 B1 20020213; EP 1020355 A1 20000719; EP 1020355 A8 20010627; EP 1020355 B1 20031210; ES 2170790 T3 20020816; JP 2853904 B2 19990203; JP H09504256 A 19970428; US 5458851 A 19951017; US 5581982 A 19961210; WO 9511829 A1 19950504

DOCDB simple family (application)

US 54140795 A 19951010; AU 1085095 A 19941029; AU 3746597 A 19970910; BR 9407927 A 19941029; CA 2175055 A 19941029; CN 94194331 A 19941029; CN 99122046 A 19991026; DE 69429869 T 19941029; DE 69433416 T 19941029; EP 00105810 A 19941029; EP 95901722 A 19941029; ES 95901722 T 19941029; JP 51288495 A 19941029; US 14543493 A 19931029; US 54162795 A 19951010; US 9412478 W 19941029