

Title (en)  
DISPENSING AND CRUSHING DEVICE FOR SMALL ICE PIECES

Publication  
**EP 0455057 A3 19920506 (DE)**

Application  
**EP 91106205 A 19910418**

Priority  
DE 4013825 A 19900430

Abstract (en)  
[origin: EP0455057A2] A dispensing and crushing device for small ice pieces in association with an ice-making device (11) as an independent modular unit or in particular integrated into refrigerators or deep-freezers, with a storage container (1) which determines a filling level (h) of these small ice pieces (13) and into which an inclined worm conveyor (2) extends, the pitch of which is adapted to the size of the small ice pieces (13) to be transported, a conveying section of the worm conveyor (2) lying in the free space above the filling level (h) of the storage container (1), and in which the worm conveyor (2) conveys the small ice pieces (13) into a selectively operable crushing device which is arranged in the region of the dispensing recess (8), is to be improved with regard to avoiding dripping at the dispensing recess (8) and crushing of ice pieces which is not required. This is achieved according to the invention in that the upwardly conveying worm conveyor (2), which is designed with open threads, lies partially in an adapted conveying trough (3) of the storage container (1), which has at its upper end a singling section (5) which is of such a design that, by discharging the superfluous small ice pieces (13) into the storage container (1), it limits the conveying to the dispensing recess (8) to in each case small ice pieces (13) following one another singly. <IMAGE>

IPC 1-7  
**F25C 5/16**

IPC 8 full level  
**F25C 5/00** (2006.01); **F25C 5/16** (2006.01); **F25C 5/20** (2018.01)

CPC (source: EP US)  
**F25C 5/24** (2017.12 - EP US)

Citation (search report)  
• [YD] GB 1337647 A 19731114 - GEN ELECTRIC  
• [Y] WO 8809302 A1 19881201 - GRADOBOEV VLADIMIR T [SU], et al  
• [A] US 4627556 A 19861209 - BROOKS ROBERT B [US]  
• [AD] US 3341065 A 19670912 - SCHULDT DONALD A, et al  
• [A] WO 8603475 A1 19860619 - GRADOBOEV VLADIMIR T, et al

Cited by  
EP0828120A1; DE10062664A1; WO2008028741A3

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