

Title (en)  
REFRIGERATED DRINK DISPENSER

Publication  
**EP 0193873 A3 19871216 (EN)**

Application  
**EP 86102548 A 19860228**

Priority  
US 70826785 A 19850305

Abstract (en)  
[origin: EP0193873A2] A refrigerated drink dispenser includes a continuous carbonator with a closed carbonating tank containing therein a carbon dioxid diffuser, an inlet for carbon dioxide to the diffuser and an outlet for carbonated water from the carbonating tank, a closed still water tank vertically disposed above the carbonator tank, the still water tank having an outlet coupled to supply water by gravity to the carbonator tank, a check valve between the still water tank and the carbonator tank to prevent backflow, a high and low level water sensor in the still water tank, a vent outlet from the still water tank a water supply inlet to the still water tank, with the valves for equalizing the pressure between the carbonator tank and still water tank, valves responsive to the high and low level sensors to: when the water level is between the upper and lower level to open the equalizing valves and to close the vent and to close the water inlet, when the low level is reached, to close the equalizing valve, to open the vent, and to open the water inlet to refill the still water chamber; and to sense when the high level is reached and to return to the condition where the equalizing valve is opened and the vent and the supply are closed; and a spiral ice bank interposed between the water inlet and the still water tank, the incoming water adapted to run over ice in the ice bank to be cooled as it is supplied to the still water tank.

IPC 1-7  
**B67D 1/00**

IPC 8 full level  
**G07F 13/06** (2006.01); **A23G 9/20** (2006.01); **B67D 1/00** (2006.01); **B67D 1/04** (2006.01); **B67D 1/08** (2006.01)

CPC (source: EP)  
**B67D 1/0021** (2013.01); **B67D 1/0072** (2013.01); **B67D 1/0075** (2013.01); **B67D 2001/0092** (2013.01); **B67D 2210/00044** (2013.01); **B67D 2210/0006** (2013.01); **B67D 2210/00104** (2013.01); **B67D 2210/00157** (2013.01)

Citation (search report)  
• GB 2100228 A 19821222 - ROBINSON DONALD  
• GB 1014648 A 19651231 - PRODUCT R & D INC  
• DE 1264983 B 19680328 - FRANK WELTY

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Designated contracting state (EPC)  
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**EP 0193873 A2 19860910**; **EP 0193873 A3 19871216**; AU 5432386 A 19861016; ES 552626 A0 19871116; ES 557613 A0 19871101; ES 8800110 A1 19871101; ES 8800650 A1 19871116; JP H0520317 B2 19930319; JP S61203398 A 19860909

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**EP 86102548 A 19860228**; AU 5432386 A 19860305; ES 552626 A 19860304; ES 557613 A 19870701; JP 8357285 A 19850418