

Title (en)  
MIXING NOZZLE

Title (de)  
MISCHDÜSE

Title (fr)  
BUSE MELANGEUSE

Publication  
**EP 1968881 B1 20141015 (EN)**

Application  
**EP 05853902 A 20051212**

Priority  
US 2005045087 W 20051212

Abstract (en)  
[origin: WO2007070030A1] A beverage dispenser provides numerous inventive features in its refrigeration system, diluent delivery system, concentrate delivery system, mixing and dispensing system, and control system. The refrigeration system employs a plate heat exchanger to provide on demand refrigeration of an intermittent water flow. The diluent delivery system includes a flowmeter/solenoid/check-valve assembly. The concentrate delivery system employs a positive displacement pump. The mixing and dispensing system includes a mixing nozzle that has a locking feature such that an elevated blocking surface directly faces the inlet of pressurized diluent to create turbulence. The control system receives package-specific information from a scanner and diluent flow rate information from the flowmeter, and then determines the pump speed in order to set a desired mix ratio.

IPC 8 full level  
**B67D 1/00** (2006.01)

CPC (source: EP)  
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