

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)
B67D 1/0044 (2013.01); **B67D 1/0048** (2013.01); **B67D 1/0081** (2013.01)

Designated contracting state (EPC)
DE FR GB NL

DOCDB simple family (publication)
WO 2007070030 A1 20070621; AU 2005339117 A1 20070621; CA 2632665 A1 20070621; CN 101432221 A 20090513; CN 101432221 B 20120822; EP 1968881 A1 20080917; EP 1968881 B1 20141015; HK 1132487 A1 20100226

DOCDB simple family (application)
US 2005045087 W 20051212; AU 2005339117 A 20051212; CA 2632665 A 20051212; CN 200580052278 A 20051212; EP 05853902 A 20051212; HK 09110149 A 20091030