

Title (en)  
SELF-CONTAINED, PRESSURE-ACTIVATED COOLING DEVICE

Title (de)  
SELBSTÄNDIGE DRUCKBETÄTIGTE KÜHLVORRICHTUNG

Title (fr)  
DISPOSITIF REFRIGERANT AUTONOME ACTIVE PAR LA PRESSION

Publication  
**EP 1185830 A1 20020313 (EN)**

Application  
**EP 99935643 A 19990716**

Priority

- US 9916157 W 19990716
- US 13874199 P 19990611

Abstract (en)  
[origin: WO0077463A1] A self contained cooling apparatus (60) in a pressurized beverage container (10) includes an outer at least partially compressible housing (62, 103) which contains a liquid and is sealed by a diaphragm (66) and an inner breakable housing (64, 90) which contains a sorbent (29) mixed with a phase change material (29). When the container (10) is opened the pressure falls whereby the diaphragm (66) which was pushed inwardly returns and fractures the shell of the inner housing (64, 90) thereby exposing the sorbent (28) to the liquid which by evaporating cools the beverage. The diaphragm (66) can be kept in its pushed-in state by a torsionally twistable bridge (68), a dissolvable column (111) or a spring (115) held by a dissolvable latch (117).

IPC 1-7  
**F25B 17/08**; **F25D 31/00**

IPC 8 full level  
**F25B 17/08** (2006.01); **F25D 31/00** (2006.01)

CPC (source: EP)  
**F25B 17/08** (2013.01); **F25D 31/007** (2013.01)

Citation (search report)  
See references of WO 0077463A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 0077463 A1 20001221**; AU 5107899 A 20010102; CA 2376504 A1 20001221; EP 1185830 A1 20020313

DOCDB simple family (application)  
**US 9916157 W 19990716**; AU 5107899 A 19990716; CA 2376504 A 19990716; EP 99935643 A 19990716