

Title (en)

Cooling device for liquids in holders

Title (de)

Kühlvorrichtung für Flüssigkeiten in Behältern

Title (fr)

Dispositif de refroidissement pour des liquides dans des récipients

Publication

**EP 1450118 A3 20040922 (DE)**

Application

**EP 04004130 A 20040224**

Priority

DE 20303040 U 20030224

Abstract (en)

[origin: EP1450118A2] Device (1) for cooling a liquid in a container, especially a drink in a bottle, comprises a hollow body (10) filled with a coolant and inserted in the container. Preferred Features: The cooling device is rod- shaped and made of metal, glass, porcelain or ceramic.

IPC 1-7

**F25D 3/00**; B65D 51/28; B65D 47/06

IPC 8 full level

**B65D 47/06** (2006.01); **B65D 51/28** (2006.01); **F25D 3/00** (2006.01); **F25D 3/08** (2006.01)

CPC (source: EP)

**F25D 3/08** (2013.01); **F25D 2303/082** (2013.01); **F25D 2303/0842** (2013.01); **F25D 2331/803** (2013.01); **F25D 2331/811** (2013.01)

Citation (search report)

- [A] US 5456090 A 19951010 - MCCOY MARK [US]
- [A] DE 10037433 A1 20010823 - ROMAIN PIASECKI BARBIZON [FR]
- [A] US 5946930 A 19990907 - ANTHONY MICHAEL M [US]
- [A] US 6494056 B1 20021217 - ROTH HENRY [US], et al
- [PXPA] FR 2840061 A1 20031128 - BECKER GANSER EDMUND [FR]
- [X] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 19 5 June 2001 (2001-06-05)

Cited by

EP1985951A1; US9021825B2; US9713798B2; US9802806B2

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