

Title (en)

Actuating device for self cooling packaging

Title (de)

Betätigungsvorrichtung für eine selbstkühlende Verpackung

Title (fr)

Dispositif d'actionnement emballage auto-refroidissant

Publication

**EP 1562009 A1 20050810 (EN)**

Application

**EP 04290318 A 20040206**

Priority

EP 04290318 A 20040206

Abstract (en)

A self cooling packaging comprises a cavity forming a heat exchanger (20) and containing a refrigerant liquid and the vapour thereof and a cavity forming an adsorption chamber (30) for pumping of said vapour. The packaging also includes connection means (40) provided in a common wall (25) of said cavities (20, 30), said connection means comprising a check valve (42), and actuating means (45) disposed on the side of the adsorption chamber cavity (30) and adapted to open the check valve (42) to an initial position inside the heat exchanger cavity (20). The packaging further comprise spring means (43), the check valve (42) being adapted to progressively reach a fully open position under the action of said spring means (43). <??>The invention makes it possible to realise a progressive opening of the check valve inside the heat exchanger cavity. <IMAGE>

IPC 1-7

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IPC 8 full level

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CPC (source: EP US)

**F25B 17/08** (2013.01 - EP US); **F25D 31/007** (2013.01 - EP US); **F25B 2500/01** (2013.01 - EP US); **F25D 2331/805** (2013.01 - EP US)

Citation (applicant)

- WO 03073019 A1 20030904 - THERMAGEN [FR], et al
- WO 03041841 A1 20030522 - THERMAGEN [FR], et al

Citation (search report)

- [A] US 4204408 A 19800527 - DAWSON PETER [GB]
- [DA] WO 03073019 A1 20030904 - THERMAGEN [FR], et al
- [DA] WO 03041841 A1 20030522 - THERMAGEN [FR], et al
- [A] "ENDOTHERMIC COOLING CARTRIDGE", 1 November 1994, IBM TECHNICAL DISCLOSURE BULLETIN, IBM CORP. NEW YORK, US, PAGE(S) 567-571, ISSN: 0018-8689, XP000487340

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DOCDB simple family (application)

**EP 04290318 A 20040206**; AU 2005210720 A 20050201; CA 2555310 A 20050201; CN 200580004304 A 20050201; EP 2005000968 W 20050201; JP 2006551782 A 20050201; US 58541405 A 20050201; ZA 200606238 A 20060727