

Title (en)
AN EUTECTIC PLATE

Title (de)
EUTEKTISCHE PLATTE

Title (fr)
PLAQUE EUTECTIQUE

Publication
EP 1846705 A1 20071024 (EN)

Application
EP 06701761 A 20060127

Priority
• GB 2006000286 W 20060127
• GB 0501850 A 20050128

Abstract (en)
[origin: GB2422657A] An eutectic assembly 10 (cold pack) has a housing 12 containing a coolant and a thermo-chromic transition material. The housing may be made from a polymer, such as a thermosetting resin, for example, polypropylene, polyurethane, PVC, polyester, etc. The cold pack may be formed by moulding, and the thermochromic material may be mixed with the polymer. Alternatively, the thermochromic material may be applied to the housing by printing or painting, or included within the coolant. The housing may include an aperture 14 through which the coolant is introduced, and the aperture may include a closure such as a screw cap. The housing may be shaped such that it is able to absorb heat in an efficient manner, and thus the housing may be a flat container with a large surface area to volume ratio. The outer surface of the housing may be provided with several apertures 16 that increase the surface area available for cooling, and also provide means for lifting. The coolant may be a phase change material, such as water and/or organic liquids. The thermochromic material may provide visual indication of the eutectic plate temperature. The cold pack may be used within an insulated container which contains a food product, a beverage, a cosmetic product or a pharmaceutical product.

IPC 8 full level
F25D 3/00 (2006.01); **C09K 5/06** (2006.01); **C09K 5/10** (2006.01); **F28D 20/02** (2006.01)

CPC (source: EP GB US)
C09K 5/066 (2013.01 - EP GB US); **C09K 5/10** (2013.01 - EP GB US); **F25D 3/00** (2013.01 - EP US); **F25D 3/08** (2013.01 - GB); **F28D 20/02** (2013.01 - EP GB US); **F25D 2303/0822** (2013.01 - EP US); **F25D 2303/085** (2013.01 - EP US); **F25D 2400/36** (2013.01 - EP US); **F28F 2265/00** (2013.01 - EP US); **Y02E 60/14** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
GB 0501850 D0 20050309; **GB 2422657 A 20060802**; **GB 2422657 B 20091118**; EP 1846705 A1 20071024; JP 2008528921 A 20080731; US 2008202128 A1 20080828; WO 2006079828 A1 20060803

DOCDB simple family (application)
GB 0501850 A 20050128; EP 06701761 A 20060127; GB 2006000286 W 20060127; JP 2007552717 A 20060127; US 88330106 A 20060127