

Title (en)

Temperature controlling unit and container using the same

Title (de)

Temperaturregeleinheit und dieser benutzender Behälter

Title (fr)

Unité de régulation de température et récipient l'utilisant

Publication

EP 1630492 A2 20060301 (EN)

Application

EP 05015587 A 20050719

Priority

- JP 2004242952 A 20040823
- JP 2004278464 A 20040924

Abstract (en)

A temperature controlling subunit (2), which includes a Stirling refrigerator (6) as a temperature controlling device, is attached to an insulative lid (4). A heat absorbing sink (9) which constitutes a temperature control effect member of the temperature controlling subunit is thermally exposed at one surface side of the lid. The resultant structure functions as a temperature controlling unit. Accordingly, the interior of the insulating container of an arbitrary size can be cooled with its opening closed and sealed by the temperature controlling unit, and items to be stored can be continuously stored for a longer time compared with a case of cooling the interior of the insulating container with solid carbon dioxide and a cold reserving agent conventionally used.

IPC 8 full level

F25B 9/14 (2006.01); **F25D 11/00** (2006.01); **F25D 19/00** (2006.01)

CPC (source: EP US)

F25B 9/14 (2013.01 - EP US); **F25D 11/00** (2013.01 - EP US); **F25D 19/003** (2013.01 - EP US); **F25D 19/02** (2013.01 - EP US); **F25D 2323/061** (2013.01 - EP US)

Citation (applicant)

- JP 2000304402 A 20001102 - TSUIN BADO KOGYO KK
- JP H0253022 U 19900417
- JP 2001311576 A 20011109 - SHARP KK

Cited by

DE102009023970A1; DE102009023978A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 1630492 A2 20060301; **EP 1630492 A3 20081029**; US 2006037327 A1 20060223

DOCDB simple family (application)

EP 05015587 A 20050719; US 18505005 A 20050720