

Title (en)

FREEZING AND THAWING VESSEL WITH THERMAL BRIDGES

Title (de)

EINFRIER- UND AUFTAUBEHÄLTER MIT THERMISCHEN BRÜCKEN

Title (fr)

CONTENEUR DE REFROIDISSEMENT ET DE DECONGELATION EQUIPE DE PONTS THERMIQUES

Publication

**EP 0960311 B1 20051109 (EN)**

Application

**EP 98906117 A 19980204**

Priority

- US 9802065 W 19980204
- US 3728397 P 19970204
- US 89578297 A 19970717
- US 89593697 A 19970717
- US 89577797 A 19970717

Abstract (en)

[origin: WO9834078A1] The present invention relates to a thermal transfer system for heating or cooling a medium. A structure (8, 37, 46, 50, 72, 81, 82, 89, 93, 98, 108, 306, 404) positioned inside a container (4, 34, 124, 302). The structure (8, 37, 46, 50, 72, 81, 82, 89, 93, 108, 306, 404) segments the container (4, 34, 124, 302) into a plurality of compartments (36, 95) wherein a distal end of the structure (8, 37, 46, 50, 72, 81, 82, 89, 93, 108, 306, 404) is in close proximity to an interior surface of the container (10, 33, 42, 91, 122, 210, 316, 414) to allow formation of a thermal transfer bridge (35, 208, 424, 426) that conducts heat into or out of the medium.

IPC 1-7

**F25D 31/00**; F28D 7/12; F28F 1/14

IPC 8 full level

**A61J 3/00** (2006.01); **F25D 31/00** (2006.01); **F28D 1/06** (2006.01); **F28D 7/02** (2006.01); **F28D 7/12** (2006.01); **F28F 1/02** (2006.01); **F28F 1/14** (2006.01)

CPC (source: EP)

**F25D 31/006** (2013.01); **F28D 1/06** (2013.01); **F28D 7/024** (2013.01); **F28D 7/12** (2013.01); **F28F 1/02** (2013.01); **F28F 1/14** (2013.01); **F28D 2021/0077** (2013.01)

Cited by

EP3133360A1; WO0072902A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**WO 9834078 A1 19980806**; AT E309512 T1 20051115; CA 2279958 A1 19980806; DE 69832261 D1 20051215; DE 69832261 T2 20060803; DK 0960311 T3 20060220; EP 0960311 A1 19991201; EP 0960311 B1 20051109; EP 1580505 A1 20050928; ES 2251071 T3 20060416; JP 2002513459 A 20020508; JP 2007240145 A 20070920

DOCDB simple family (application)

**US 9802065 W 19980204**; AT 98906117 T 19980204; CA 2279958 A 19980204; DE 69832261 T 19980204; DK 98906117 T 19980204; EP 05009933 A 19980204; EP 98906117 A 19980204; ES 98906117 T 19980204; JP 2007121284 A 20070501; JP 53321198 A 19980204