

Title (en)  
Isothermal container with cold storage

Title (de)  
Isothermischer Behälter mit Kältespeicher

Title (fr)  
Conteneur isotherme avec réserve de frigories

Publication  
**EP 0823600 A3 19980715 (FR)**

Application  
**EP 97420131 A 19970728**

Priority  
FR 9609850 A 19960730

Abstract (en)  
[origin: EP0823600A2] The cabinet (2) is of double-skinned, insulant-filled construction. The drawer (4), with similar front (12) and base (10), slides on internal grooves (3) above the storage zone (B), recesses (16) receiving the drawer front. Its rear edge (14) enters a similar groove (8). All grooves have flexible seals (15). Liquid CO<sub>2</sub>, injected through a filler (27) into the bag (26), which is restrained by a wire cage (17), forms a cryogenic mass of carbonic acid snow. Sublimed CO<sub>2</sub> gas passes through the bag into an expansion zone (D) with draw-off conduit (29). After filling, entry and exit holes (27,29) are plugged. Optionally, the cage has a metal floor over a sliding panel, which is removed when frozen food is to be stored. Other variants are described.

IPC 1-7  
**F25D 3/12**

IPC 8 full level  
**F25D 3/12** (2006.01)

CPC (source: EP)  
**F25D 3/125** (2013.01)

Citation (search report)

- [YA] FR 2721382 A1 19951222 - HYDROGAS FRANCE SA [FR]
- [YA] FR 2604243 A1 19880325 - ANHYDRIDE CARBONIQUE IND [FR]
- [A] FR 2579734 A1 19861003 - SELNOR [FR]
- [A] EP 0631096 A1 19941228 - CARBOXYQUE FRANCAISE [FR]
- [DA] EP 0591047 A1 19940406 - AIR LIQUIDE [FR]
- [A] FR 2386793 A1 19781103 - AHLMANN SANITAER KUNSTSTOFF [DE]
- [A] US 5271233 A 19931221 - PARKER GILES W [ZA], et al

Cited by  
EP1798147A1; EP0863374A3; EP2645024A1; DE102009043634B4; EP0942244A1; FR2776056A1; DE102005059627B3; BE1020015A5; FR2891354A1; EP1186842A1; FR2813952A1; FR2780145A1; EP1724538A1; FR2886002A1; FR2829567A1; EP1291594A3; FR2836543A1; FR2839774A1; EP2368845A1; EP3246642A1; EP3244144A1; DE102009043634A1; US6427481B1; WO2007004249A3; WO2012107518A3; WO2007036656A1; WO9967585A1; WO2012107518A2; DE102012002403A1; DE102012002403A9; WO2012052638A1; US9227741B2; EP1934537B1

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)  
**EP 0823600 A2 19980211; EP 0823600 A3 19980715; EP 0823600 B1 20010321**; DE 69704314 D1 20010426; DE 69704314 T2 20010705; ES 2155977 T3 20010601; FR 2752049 A1 19980206; FR 2752049 B1 19980911; GR 3036009 T3 20010928; PT 823600 E 20010928

DOCDB simple family (application)  
**EP 97420131 A 19970728**; DE 69704314 T 19970728; ES 97420131 T 19970728; FR 9609850 A 19960730; GR 20010400858 T 20010608; PT 97420131 T 19970728