

Title (en)
Cryogenic container with built-in refrigerator

Title (de)
Kryogenbehälter mit eingebautem Kühlaggregat

Title (fr)
Conteneur cryogène avec réfrigérateur intégré

Publication
EP 2085720 B1 20130821 (EN)

Application
EP 09000684 A 20090119

Priority
JP 2008015018 A 20080125

Abstract (en)
[origin: EP2085720A2] A cryogenic container with a built-in refrigerator according to the present invention comprises the refrigerator having a first heat absorbing part (2) and a first heat dissipating part (3), a vacuum vessel (10) for containing and thermally insulating an object (1) to be cooled while holding the object (1) at a cryogenic temperature through the first heat absorbing part (2) of the refrigerator, and a pre-cooling unit (6) having a second heat absorbing part (4) and a second heat dissipating part for cooling the first heat dissipating part (3), wherein the first heat dissipating part (3) and the second heat absorbing part (4) are arranged inside the vacuum vessel (10), and a part of a heat dissipating unit (6,7,8,9,10) including the second heat dissipating part is exposed outside the vacuum vessel (10).

IPC 8 full level
F25B 9/14 (2006.01); **F25B 21/02** (2006.01); **F25D 19/00** (2006.01)

CPC (source: EP US)
F25B 9/14 (2013.01 - EP US); **F25D 19/006** (2013.01 - EP US); **F25B 21/02** (2013.01 - EP US); **F25B 25/00** (2013.01 - EP US); **F25B 2500/13** (2013.01 - EP US)

Cited by
CN106298152A; FR3062899A1; WO2016182746A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 2085720 A2 20090805; **EP 2085720 A3 20110511**; **EP 2085720 B1 20130821**; JP 2009174804 A 20090806; JP 5289784 B2 20130911; US 2009188260 A1 20090730

DOCDB simple family (application)
EP 09000684 A 20090119; JP 2008015018 A 20080125; US 35747609 A 20090122