

Title (en)
Vessel for cryogenic liquid.

Title (de)
Gefäß für kryogene Flüssigkeit.

Title (fr)
Réservoir pour liquide cryogénique.

Publication
EP 0430731 B1 19940406 (FR)

Application
EP 90403080 A 19901031

Priority
FR 8915843 A 19891201

Abstract (en)
[origin: JPH03198385A] PURPOSE: To obtain a container for cryogenic liquid having simplified rigid structure by bringing a part of a cryogenic liquid take-out pipe into resilient contact with the inner face of a casing. CONSTITUTION: Cryogenic liquid in an inner casing 2 is taken out through a take-out pipe 25 having partial spiral parts 31, 32 coupled with small plates 43, 44 through a coupling spring 41 or the like. The spiral parts 31, 32 are urged in the direction for increasing the diameter to come into contact with the inner surface 30 of an outer casing 3. Consequently, heat is exchanged well without securing the spiral parts 31, 32 to the casing 3 and the cryogenic liquid is evaporated. Furthermore, impact and vibration of the casing 3 are absorbed through resilient contact and a durable cryogenic liquid container having rigid and simplified structure is realized.

IPC 1-7
F17C 7/02

IPC 8 full level
F17C 1/12 (2006.01); **F17C 3/00** (2006.01); **F17C 3/08** (2006.01); **F17C 7/02** (2006.01); **F17C 9/00** (2006.01); **H01L 39/04** (2006.01)

CPC (source: EP US)
F17C 3/08 (2013.01 - EP US); **F17C 7/02** (2013.01 - EP US); **F17C 2201/0119** (2013.01 - EP US); **F17C 2201/032** (2013.01 - EP US); **F17C 2203/012** (2013.01 - EP US); **F17C 2203/018** (2013.01 - EP US); **F17C 2203/0391** (2013.01 - EP US); **F17C 2203/0629** (2013.01 - EP US); **F17C 2223/0161** (2013.01 - EP US); **F17C 2223/033** (2013.01 - EP US); **F17C 2225/0123** (2013.01 - EP US); **F17C 2225/047** (2013.01 - EP US); **F17C 2260/01** (2013.01 - EP US)

Cited by
FR2987425A1

Designated contracting state (EPC)
DE FR GB NL

DOCDB simple family (publication)
EP 0430731 A1 19910605; **EP 0430731 B1 19940406**; BR 9006055 A 19910924; CZ 283232 B6 19980218; CZ 570490 A3 19971015; DE 69007942 D1 19940511; DE 69007942 T2 19940721; FR 2655407 A1 19910607; FR 2655407 B1 19931029; JP 3213615 B2 20011002; JP H03198385 A 19910829; RU 1838715 C 19930830; SK 280707 B6 20000612; SK 570490 A3 20000612; US 5111666 A 19920512

DOCDB simple family (application)
EP 90403080 A 19901031; BR 9006055 A 19901129; CS 570490 A 19901119; DE 69007942 T 19901031; FR 8915843 A 19891201; JP 30636490 A 19901114; SK 570490 A 19901119; SU 4831679 A 19901130; US 60976190 A 19901107