

Title (en)
Vessel for cryogenic liquid.

Title (de)
Gefäß für kryogene Flüssigkeit.

Title (fr)
Réservoir pour liquide cryogénique.

Publication
EP 0430731 A1 19910605 (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.

Abstract (fr)
Le réservoir comprend une enveloppe interne (2) et une enveloppe externe (3) en matériaux identiques ou différents et une tubulure de prélèvement de liquide cryogénique comportant une partie interne (29) avec un tronçon (31, 32), avantageusement sous forme de spires adjacentes, maintenu élastiquement en contact, typiquement par un ressort écarteur, contre la paroi interne de l'enveloppe externe (3), permettant ainsi d'établir entre le tronçon de la première partie de tubulure et l'enveloppe externe un contact d'échange thermique quels que soient les matériaux constitutifs de la tubulure et de l'enveloppe externe. Application notamment aux réservoirs auto-pressurisables. <IMAGE>

IPC 1-7
F17C 7/02

IPC 8 full level
F17C 3/00 (2006.01); **F17C 1/12** (2006.01); **F17C 3/08** (2006.01); **F17C 7/02** (2006.01); **F17C 9/00** (2006.01); **H10N 60/81** (2023.01)

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)

Citation (search report)

- [A] EP 0098030 A2 19840111 - MINNESOTA VALLEY ENG [US]
- [A] GB 2150683 A 19850703 - CAVALLI ALFREDO
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- [A] GB 1014583 A 19651231 - REYNOLDS METALS CO
- [A] EP 0098766 A1 19840118 - AIR LIQUIDE [FR]

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DE FR GB NL

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