

Title (en)

Prefabricated, fluid-tight and heat-insulating wall structure for vessels for cryogenic fluids

Title (de)

Vorgefertigte, flüssigkeitsdichtende und thermisch isolierende Wandstruktur für Behälter für cryogene Fluide

Title (fr)

Structure préfabriquée de formation de parois étanches et thermiquement isolantes pour enceinte de confinement d'un fluide à très basse température

Publication

EP 0573327 B1 19990127 (FR)

Application

EP 93401304 A 19930519

Priority

FR 9206136 A 19920520

Abstract (en)

[origin: WO9323699A1] The present invention relates to a prefabricated structure providing fluid-tight and thermo-insulated walls for a heat-insulated confinement container such as a fluid-tight reservoir for storage and/or transport of a very low temperature fluid. Said structure (1) comprised of an internal flexible and fluid-tight barrier (2), a heat insulation system (4) and an external wall (3) forming support for the structure (1), is characterized in that distribution walls (53) integral with the external wall (3) are fixed to the latter particularly by means of screws or the like (35) arranged facing holes (435) drilled in an external insulation layer (43) at a distance from the joints (63) between plates (43a) forming said layer, a fluid-tight connector (80) being sealingly arranged in each of the holes (435) and joints (63). The invention applies to the construction of structures forming fluid-tight reservoirs, for example for tankers which transport cryogenic liquids such as methane tankers.

IPC 1-7

F17C 3/04; **F17C 3/02**

IPC 8 full level

B63B 25/16 (2006.01); **F17C 3/02** (2006.01); **F17C 3/04** (2006.01)

CPC (source: EP US)

B63B 25/16 (2013.01 - EP US); **F17C 3/025** (2013.01 - EP US); **F17C 3/04** (2013.01 - EP US); **F17C 2201/052** (2013.01 - EP US); **F17C 2203/012** (2013.01 - EP US); **F17C 2203/0333** (2013.01 - EP US); **F17C 2203/0354** (2013.01 - EP US); **F17C 2203/0358** (2013.01 - EP US); **F17C 2203/0643** (2013.01 - EP US); **F17C 2203/0646** (2013.01 - EP US); **F17C 2203/066** (2013.01 - EP US); **F17C 2203/0663** (2013.01 - EP US); **F17C 2205/0184** (2013.01 - EP US); **F17C 2223/0153** (2013.01 - EP US); **F17C 2223/0161** (2013.01 - EP US); **F17C 2223/033** (2013.01 - EP US); **F17C 2260/033** (2013.01 - EP US); **F17C 2260/036** (2013.01 - EP US); **F17C 2270/0105** (2013.01 - EP US); **F17C 2270/0107** (2013.01 - EP US); **Y10S 220/901** (2013.01 - EP US)

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Designated contracting state (EPC)

BE DE DK ES FR GB GR IT NL PT SE

DOCDB simple family (publication)

WO 9323699 A1 19931125; AU 4076193 A 19931213; CA 2113822 A1 19931125; DE 69323240 D1 19990311; EP 0573327 A1 19931208; EP 0573327 B1 19990127; ES 2127799 T3 19990501; FI 940259 A0 19940119; FI 940259 A 19940321; FR 2691520 A1 19931126; FR 2691520 B1 19940902; JP 3788808 B2 20060621; JP H07500406 A 19950112; KR 100258206 B1 20000601; PL 302155 A1 19940711; US 5501359 A 19960326

DOCDB simple family (application)

FR 9300492 W 19930519; AU 4076193 A 19930519; CA 2113822 A 19930519; DE 69323240 T 19930519; EP 93401304 A 19930519; ES 93401304 T 19930519; FI 940259 A 19940119; FR 9206136 A 19920520; JP 51995993 A 19930519; KR 19940700174 A 19940120; PL 30215593 A 19930519; US 18582094 A 19940310