

Title (en)

Fluid-tight and heat-insulating tank integrated in a ship's hull structure.

Title (de)

Flüssigkeitsdichter und thermisch isolierender, in der tragenden Schiffsstruktur integrierter Tank.

Title (fr)

Cuve étanche et thermiquement isolante perfectionnée, intégrée à la structure porteuse d'un navire.

Publication

**EP 0543686 B1 19950308 (FR)**

Application

**EP 92402710 A 19921005**

Priority

FR 9114320 A 19911120

Abstract (en)

[origin: EP0543686A1] The invention relates to a fluid-tight and insulating tank integrated in the hull structure of a ship. This tank comprises two impermeability barriers alternating with two insulating barriers. The boxes 3 of the secondary insulating barrier are attached to the hull structure of the ship by tabs 5 fixed in line with thick internal partitions, said partitions supporting longitudinally the means of attaching the primary barrier. These fastening means are constituted by a sliding joint with a double fold arranged between two plates 21 of the primary insulating barrier, the plates 21 being held in position by angles welded on a welding support 18 which constitutes a part of the fastening means. <IMAGE>

IPC 1-7

**B63B 25/16**; **F17C 3/02**

IPC 8 full level

**B63B 25/16** (2006.01); **B65D 88/12** (2006.01); **F17C 3/02** (2006.01)

CPC (source: EP KR US)

**B63B 25/00** (2013.01 - KR); **B63B 25/16** (2013.01 - EP US); **F17C 3/025** (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 2203/0631** (2013.01 - EP US); **F17C 2209/221** (2013.01 - EP US); **F17C 2209/227** (2013.01 - EP US); **F17C 2209/228** (2013.01 - EP US); **F17C 2221/033** (2013.01 - EP US); **F17C 2223/0161** (2013.01 - EP US); **F17C 2223/033** (2013.01 - EP US); **F17C 2260/038** (2013.01 - EP US); **F17C 2270/0107** (2013.01 - EP US)

Cited by

FR2781036A1; FR3086031A1; FR2781556A1; FR3087873A1; CN108603634A; RU2750589C2; EP4108976A1; FR2709725A1; US5450806A; FR2972242A1; FR3008765A1; KR20160033121A; AU2012223098B2; FR3070746A1; RU2766510C2; FR2709726A1; US5447112A; FR3094477A1; CN113710950A; FR2780942A1; FR2780941A1; FR2931535A1; ES2165761A1; CN1127421C; FR2724623A1; US5586513A; FR3121730A1; WO2020193584A1; WO2009150366A1; WO2018069585A1; WO2020058600A1; US9291307B2; US10989357B2; US6199497B1; FR2781557A1; US6035795A; ES2176053A1; EP3473915A1; FR3072759A1; CN109695819A; WO2012117180A1; WO2015007974A3; WO2020084247A1; WO2019043348A1

Designated contracting state (EPC)

BE DE ES GR IT PT

DOCDB simple family (publication)

**EP 0543686 A1 19930526**; **EP 0543686 B1 19950308**; DE 69201629 D1 19950413; DE 69201629 T2 19950921; FR 2683786 A1 19930521; FR 2683786 B1 19940218; JP 3280721 B2 20020513; JP H05310289 A 19931122; KR 100242598 B1 20000302; KR 930009856 A 19930621; TW 217399 B 19931211; US 5269247 A 19931214

DOCDB simple family (application)

**EP 92402710 A 19921005**; DE 69201629 T 19921005; FR 9114320 A 19911120; JP 31243192 A 19921120; KR 920021597 A 19921118; TW 81108159 A 19921014; US 97237392 A 19921105