

Title (en)  
SYSTEM FOR STORING AND TRANSPORTING A CRYOGENIC FLUID ON A SHIP

Title (de)  
SYSTEM ZUM LAGERN UND TRANSPORTIEREN EINER KRYOGENEN FLÜSSIGKEIT AN BORD EINES SCHIFFES

Title (fr)  
INSTALLATION DE STOCKAGE ET DE TRANSPORT D'UN FLUIDE CRYOGÉNIQUE EMBARQUÉE SUR UN NAVIRE

Publication  
**EP 3755939 A2 20201230 (FR)**

Application  
**EP 19710045 A 20190212**

Priority  
• FR 1851447 A 20180220  
• FR 2019050301 W 20190212

Abstract (en)  
[origin: WO2019162594A2] The invention relates to a system for storing and transporting a cryogenic fluid on a ship, said system comprising: a sealed, thermally insulated tank (2) having a ceiling wall which includes, from the outside towards the inside of the tank (2) in the direction of a thickness of the wall, a primary thermally insulating barrier (11) and a primary sealing membrane (10) that is to be in contact with the cryogenic fluid; a sealed pipe (14) which penetrates the ceiling wall of the tank (2), said pipe (14) having a lower portion (15), a first end of which is located inside the ceiling wall of the tank (2) and a second end of which is located outside the ceiling wall of the tank (2) in a direction of the thickness of the ceiling wall, and an upper portion (16) that is attached to the second end of the lower portion (15); the lower portion (15) is made of an alloy having a low coefficient of thermal expansion, and the primary sealing membrane (10) is attached in a sealed manner to the lower portion (15) of the pipe (14) around the pipe (14).

IPC 8 full level  
**F17C 13/00** (2006.01)

CPC (source: EP KR US)  
**B63B 3/48** (2013.01 - KR); **B63B 25/16** (2013.01 - KR); **B63B 27/24** (2013.01 - KR US); **B63B 27/34** (2013.01 - KR); **B63B 73/43** (2020.01 - KR); **F17C 3/027** (2013.01 - US); **F17C 13/004** (2013.01 - EP KR); **F17C 13/082** (2013.01 - US); **B63B 2231/02** (2013.01 - KR); **F17C 2201/0157** (2013.01 - EP KR); **F17C 2201/037** (2013.01 - EP KR); **F17C 2201/052** (2013.01 - EP KR); **F17C 2203/0358** (2013.01 - EP KR); **F17C 2203/0643** (2013.01 - US); **F17C 2205/0332** (2013.01 - EP KR); **F17C 2205/0364** (2013.01 - EP KR); **F17C 2221/033** (2013.01 - EP KR US); **F17C 2223/0161** (2013.01 - EP KR US); **F17C 2223/033** (2013.01 - EP KR US); **F17C 2223/043** (2013.01 - EP KR); **F17C 2227/0135** (2013.01 - US); **F17C 2250/0626** (2013.01 - EP KR); **F17C 2265/032** (2013.01 - EP KR); **F17C 2270/0107** (2013.01 - EP KR US)

Citation (search report)  
See references of WO 2019162594A2

Designated contracting state (EPC)  
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**FR 3078135 A1 20190823**; **FR 3078135 B1 20210115**; CN 111788429 A 20201016; CN 111788429 B 20220329; EP 3755939 A2 20201230; JP 2021514327 A 20210610; JP 7219772 B2 20230208; KR 102596193 B1 20231031; KR 20200122357 A 20201027; RU 2020126271 A 20220321; US 11407478 B2 20220809; US 2020398943 A1 20201224; WO 2019162594 A2 20190829; WO 2019162594 A3 20191031

DOCDB simple family (application)  
**FR 1851447 A 20180220**; CN 201980014156 A 20190212; EP 19710045 A 20190212; FR 2019050301 W 20190212; JP 2020543966 A 20190212; KR 20207026856 A 20190212; RU 2020126271 A 20190212; US 201916970998 A 20190212