

Title (en)

STRUCTURE FOR TANK DOME FLANGE SECTION

Title (de)

STRUKTUR FÜR EINEN TANKKUPPEL-FLANSCHABSCHNITT

Title (fr)

STRUCTURE POUR SECTION D'AILE DE DÔME DE RÉSERVOIR

Publication

**EP 2682337 A4 20140813 (EN)**

Application

**EP 12752472 A 20120217**

Priority

- JP 2011046664 A 20110303
- JP 2012001060 W 20120217

Abstract (en)

[origin: EP2682337A1] The present invention can suppress a temperature increase of a low-temperature liquefied gas stored in a tank main body portion. A tank dome flange portion structure (21) is provided at a liquefied gas tank and includes: a tank main body portion configured to store a low-temperature liquefied gas; a tank dome (3) provided at an upper portion of the tank main body portion; a flange portion (22) projecting substantially horizontally from the tank dome (3); a tank cover (6) configured to cover the tank main body portion with a space (5) therebetween; and an expansion rubber portion (11) provided between the flange portion (22) and an upper opening edge portion of the tank cover (6) and configured to seal the space (5). A heat transfer suppressing material portion made of fiber reinforced plastic is provided at at least a predetermined portion of the flange portion (22), the predetermined portion being located between a side wall (3a) of the tank dome (3) and the expansion rubber portion (11).

IPC 8 full level

**B63B 25/16** (2006.01)

CPC (source: EP KR)

**B63B 25/16** (2013.01 - EP KR); **F17C 3/025** (2013.01 - EP); **F17C 3/04** (2013.01 - EP); **F17C 2201/0109** (2013.01 - EP); **F17C 2201/035** (2013.01 - EP); **F17C 2201/054** (2013.01 - EP); **F17C 2203/0304** (2013.01 - EP); **F17C 2203/0617** (2013.01 - EP); **F17C 2205/0111** (2013.01 - EP); **F17C 2205/0157** (2013.01 - EP); **F17C 2209/234** (2013.01 - EP); **F17C 2221/033** (2013.01 - EP); **F17C 2223/0161** (2013.01 - EP); **F17C 2223/033** (2013.01 - EP); **F17C 2260/033** (2013.01 - EP); **F17C 2270/0105** (2013.01 - EP)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 2012117682A1

Cited by

EP4129814A4; JP2020199913A

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

DOCDB simple family (publication)

**EP 2682337 A1 20140108**; **EP 2682337 A4 20140813**; **EP 2682337 B1 20160914**; CN 103384627 A 20131106; CN 103384627 B 20160316; JP 2012183864 A 20120927; JP 5670225 B2 20150218; KR 101837032 B1 20180309; KR 20130084665 A 20130725; KR 20140144749 A 20141219; RU 2535357 C1 20141210; WO 2012117682 A1 20120907

DOCDB simple family (application)

**EP 12752472 A 20120217**; CN 201280010488 A 20120217; JP 2011046664 A 20110303; JP 2012001060 W 20120217; KR 20137010498 A 20120217; KR 20147033445 A 20120217; RU 2013144386 A 20120217