

Title (en)

LNG tank and method of treating boil-off gas

Title (de)

LNG Behälter und Verfahren um den "Boil of gas" zu behandeln

Title (fr)

Réservoir GNL et procédé de traitement des vapeurs de gaz

Publication

**EP 1956287 A3 20151209 (EN)**

Application

**EP 07007423 A 20070411**

Priority

KR 20070014405 A 20070212

Abstract (en)

[origin: EP1956287A2] An LNG storage tank and a method of treating boil-off gas using the same are disclosed. The LNG storage tank and the method of treating boil-off gas enable the pressure of the LNG storage tank to be maintained in a stable state without consuming boil-off gas generated in the LNG tank as propulsion fuel or without re-liquefying the boil-off gas. The storage tank comprises a thermal insulation wall, and has strengthened structure to permit a pressure increase resulting from heat influx to the LNG tank and boil-off gas generation. The method comprises permitting a pressure increase by the boil-off gas generation and LNG cargo temperature increase in the storage tank without treating the generated boil-off gas in the storage tank, so that the boil-off gas is accumulated without extracting or loss in the storage tank.

IPC 8 full level

**F17C 13/00** (2006.01)

CPC (source: EP KR)

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Citation (search report)

- [X] US 2005183425 A1 20050825 - IMMEL RAINER [DE]
- [X] WO 9859164 A2 19981230 - EXXON PRODUCTION RESEARCH CO [US]
- [X] WO 0058663 A1 20001005 - EXXONMOBIL UPSTREAM RES CO [US]
- [X] WO 03053774 A1 20030703 - EXXONMOBIL UPSTREAM RES CO [US]
- [X] US 3453836 A 19690708 - KERR EMORY L
- [X] US 2790307 A 19570430 - AYRES ELWYN C
- [X] WO 9950537 A1 19991007 - EXXON PRODUCTION RESEARCH CO [US]

Cited by

DE102016002316A1; WO2017148571A1; CN108778921A; US8821132B2; US9273675B2

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AL BA HR MK RS

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