

Title (en)

TANK INTERNAL PRESSURE SUPPRESSION DEVICE

Title (de)

TANKINNENDRUCKABBAUVORRICHTUNG

Title (fr)

DISPOSITIF DE SUPPRESSION DE LA PRESSION INTERNE D'UNE CUVE

Publication

EP 2921761 A1 20150923 (EN)

Application

EP 14754698 A 20140220

Priority

- JP 2013032184 A 20130221
- JP 2014054087 W 20140220

Abstract (en)

In order to readily manufacture a device that utilizes boil-off gas generated in a tank, a tank internal pressure suppression device comprises: a gas combustion unit (31) that generates pressurized exhaust gas by using compressed air and combusting boil-off gas generated inside an LNG tank (1); a compressor (36) that generates compressed air by using driving power generated in a pressurized exhaust gas expansion process by an air-compression gas turbine (34), to compress air; and a load (37) that utilizes recovered driving power generated, using pressurized exhaust gas, by a power recovery gas turbine (35) different from the air-compression gas turbine (34). This kind of tank internal pressure suppression device is capable of having a simpler configuration than other tank internal pressure suppression devices (10) whereby the load (37) utilizes driving power generated by the air-compression gas turbine (34).

IPC 8 full level

F17C 13/00 (2006.01); **B63B 25/16** (2006.01)

CPC (source: EP KR)

B63B 25/16 (2013.01 - EP KR); **F02M 21/00** (2013.01 - KR); **F25J 1/0025** (2013.01 - EP); **F25J 1/004** (2013.01 - EP); **F25J 1/0045** (2013.01 - EP); **F25J 1/005** (2013.01 - EP); **F25J 1/0052** (2013.01 - EP); **F25J 1/0072** (2013.01 - EP); **F25J 1/0204** (2013.01 - EP); **F25J 1/023** (2013.01 - EP); **F25J 1/0245** (2013.01 - EP); **F25J 1/0265** (2013.01 - EP); **F25J 1/0277** (2013.01 - EP); **F25J 1/0283** (2013.01 - EP); **F25J 1/0288** (2013.01 - EP); **F02M 21/00** (2013.01 - EP); **F17C 2265/032** (2013.01 - EP KR); **F17C 2265/066** (2013.01 - EP KR); **F17C 2270/0105** (2013.01 - EP KR); **F25J 2220/62** (2013.01 - EP)

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)

EP 2921761 A1 20150923; **EP 2921761 A4 20151216**; **EP 2921761 B1 20190102**; CN 104870885 A 20150826; CN 104870885 B 20170620; JP 2014163400 A 20140908; JP 6029485 B2 20161124; KR 102062439 B1 20200103; KR 20150086503 A 20150728; KR 20170063974 A 20170608; WO 2014129562 A1 20140828

DOCDB simple family (application)

EP 14754698 A 20140220; CN 201480003581 A 20140220; JP 2013032184 A 20130221; JP 2014054087 W 20140220; KR 20157015982 A 20140220; KR 20177014419 A 20140220