

## Title (en)

BOIL OFF GAS RELIQUEFYING APPARATUS AND LNG SUPPLY SYSTEM PROVIDED WITH THE SAME

## Title (de)

ABDAMPFGASWIEDERVERFLÜSSIGUNGSVORRICHTUNG UND LNG-VERSORGUNGSSYSTEM MIT SOLCH EINER VORRICHTUNG

## Title (fr)

APPAREIL DE RELIQUÉFACTION DE GAZ D'ÉVAPORATION ET SYSTÈME D'ALIMENTATION EN GAZ NATUREL LIQUÉFIÉ MUNI D'UN TEL APPAREIL

## Publication

**EP 3514466 A2 20190724 (EN)**

## Application

**EP 19150672 A 20190108**

## Priority

JP 2018005304 A 20180117

## Abstract (en)

Provided is a boil off gas reliquefying apparatus which is applicable to new and existing liquefied natural gas tanks, and attains an extremely inexpensive investment cost. A boil off gas reliquefying apparatus has a first line (L10), a first heat exchanger (10) for heat-exchanging BOG, a first return line (L12) that is branched from the first line (L10) in the first heat exchanger, and joins an intermediate position of a compression process line, an expander (13) that expands BOG which passes through a part of the first heat exchanger (10), a booster (14) that pressurizes BOG which is expanded by the expander (13) to pass through the first heat exchanger (10), a second heat exchanger (11) for heat-exchanging BOG which passes through the first heat exchanger (10), at least one expansion valve (16) for subjecting BOG which passes through the second heat exchanger (11) to free expansion to perform reliquefaction, and a gas-liquid separator (12) that separates BOG expanded by the expansion valve (16) into BOG and LNG.

## IPC 8 full level

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## CPC (source: CN EP KR)

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## Citation (applicant)

- WO 2015128903 A1 20150903 - JGC CORP [JP]
- JP 3908881 B2 20070425
- KR 101767557 B1 20170811 - DAEWOO SHIPBUILDING & MARINE [KR]
- LNG TECHNOLOGY, LINDE ENGINEERING, 7 January 2018 (2018-01-07), Retrieved from the Internet <URL:https://www.linde-engineering.com/internet.global.lindeengineering.global/en/images/LNG\_1\_1\_e\_13\_150dpi\_NB19\_4577.pdf? v=8.0>

## Cited by

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## Designated contracting state (EPC)

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