

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 A3 20191106 (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  
**F25J 1/00** (2006.01); **F25J 1/02** (2006.01)

CPC (source: CN EP KR)  
**F17C 13/00** (2013.01 - EP); **F17C 13/005** (2013.01 - KR); **F25J 1/0025** (2013.01 - EP KR); **F25J 1/0037** (2013.01 - EP); **F25J 1/004** (2013.01 - EP); **F25J 1/0045** (2013.01 - EP); **F25J 1/0201** (2013.01 - KR); **F25J 1/0202** (2013.01 - CN EP); **F25J 1/0262** (2013.01 - KR); **F25J 1/0279** (2013.01 - KR); **F25J 1/0288** (2013.01 - EP); **F25J 1/0292** (2013.01 - EP); **F17C 2221/033** (2013.01 - EP); **F17C 2223/0161** (2013.01 - EP); **F17C 2227/0339** (2013.01 - KR); **F17C 2265/034** (2013.01 - KR); **F25J 2210/62** (2013.01 - CN); **F25J 2245/02** (2013.01 - EP); **F25J 2270/06** (2013.01 - EP)

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