

Title (en)

BOIL-OFF GAS RECYCLE SUBSYSTEM IN NATURAL GAS LIQUEFACTION PLANTS

Title (de)

BOIL-OFF-GASRECYCLINGSUBSYSTEM IN ERDGASVERFLÜSSIGUNGSANLAGEN

Title (fr)

SOUS-SYSTÈME DE RECYCLAGE DE GAZ D'ÉVAPORATION DANS DES INSTALLATIONS DE LIQUÉFACTION DE GAZ NATUREL

Publication

EP 3837483 A1 20210623 (EN)

Application

EP 19749958 A 20190723

Priority

- US 201862718742 P 20180814
- US 2019043021 W 20190723

Abstract (en)

[origin: US2020056838A1] A method of recycling liquefied natural gas (LNG) boil-off gas (BOG) in natural gas liquefaction plants can include: supplying a feed gas to a liquefaction subsystem; liquefying the feed gas to produce LNG and end-flash gas (EFG); compressing the EFG to compressed EFG; using the compressed EFG as fuel gas; storing the LNG in one or more LNG tanks; compressing LNG BOG from the one or more LNG tanks to produce compressed LNG BOG; and either (1) operating in a recycle mode by supplying at least a portion of the compressed LNG BOG to the feed gas via a bidirectional line, or (2) operating in a fuel mode by (a) supplying a portion of the feed gas to the fuel gas via the bidirectional line and (b) supplying the compressed LNG BOG to the fuel gas.

IPC 8 full level

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

CPC (source: EP US)

F25J 1/0022 (2013.01 - EP); **F25J 1/0025** (2013.01 - EP US); **F25J 1/023** (2013.01 - EP); **F25J 1/0245** (2013.01 - EP); **F25J 1/0269** (2013.01 - EP); **F25J 1/0279** (2013.01 - US); **F28F 13/04** (2013.01 - US); **F25J 2210/02** (2013.01 - EP); **F25J 2210/60** (2013.01 - EP); **F25J 2210/90** (2013.01 - EP); **F25J 2230/08** (2013.01 - EP); **F25J 2230/30** (2013.01 - EP); **F25J 2230/60** (2013.01 - EP); **F25J 2245/90** (2013.01 - EP); **F25J 2290/62** (2013.01 - EP)

Citation (search report)

See references of WO 2020036712A1

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)

US 2020056838 A1 20200220; AU 2019320723 A1 20210218; AU 2019320723 B2 20230112; CA 3108849 A1 20200220; CA 3108849 C 20230523; EP 3837483 A1 20210623; JP 2021534358 A 20211209; JP 7204888 B2 20230116; SG 11202100466X A 20210225; WO 2020036712 A1 20200220

DOCDB simple family (application)

US 201916519846 A 20190723; AU 2019320723 A 20190723; CA 3108849 A 20190723; EP 19749958 A 20190723; JP 2021507594 A 20190723; SG 11202100466X A 20190723; US 2019043021 W 20190723