Title (en)

DEVICE AND METHOD FOR LIQUEFYING A NATURAL GAS AND SHIP COMPRISING SUCH A DEVICE

Title (de)

VORRICHTUNG UND VERFAHREN ZUR VERFLÜSSIGUNG EINES ERDGASES UND SCHIFF MIT SOLCH EINER VORRICHTUNG

Title (fr)

DISPOSITIF ET PROCÉDÉ DE LIQUÉFACTION D'UN GAZ NATUREL ET NAVIRE COMPORTANT UN TEL DISPOSITIF

Publication

EP 3559572 A1 20191030 (FR)

Application

EP 17825589 A 20171215

Priority

- FR 1663183 A 20161222
- FR 2017053610 W 20171215

Abstract (en)

[origin: WO2018115659A1] The device (100) for liquefying a natural gas comprises: - a compressor (105) for a first vaporized coolant chemical mixture, - a means (110) for fractionating the compressed mixture into a heavy fraction and a light fraction, - a first heat exchange body (115) for heat exchange between the heavy fraction of the first mixture and the natural gas in order to cool at least the natural gas, - a second heat exchange body (120) for heat exchange between the light fraction of the first mixture and the cooled natural gas in the first exchange body in order to liquefy the natural gas, and - a return pipe (125) for return of the first vaporized coolant mixture in the heat exchange body to the compressor (105), - upstream from an inlet (116) for the natural gas in the first exchange body (115) or downstream from an outlet (121) of liquefied natural gas from the second exchange body (120), a third heat exchange body (130, 135) for heat exchange between the natural gas and a second coolant chemical compound, and - a means (140, 145) for compressing the second vaporized compound.

IPC 8 full level

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

CPC (source: EP US)

F25J 1/0022 (2013.01 - EP US); **F25J 1/0052** (2013.01 - EP US); **F25J 1/0055** (2013.01 - EP US); **F25J 1/0057** (2013.01 - EP US); **F25J 1/0072** (2013.01 - EP); **F25J 1/0215** (2013.01 - EP US); **F25J 1/0216** (2013.01 - EP); **F25J 1/0218** (2013.01 - EP); **F25J 1/0278** (2013.01 - EP); **F25J 1/0279** (2013.01 - EP US); **F25J 1/0283** (2013.01 - EP); **F25J 1/029** (2013.01 - EP); **F25J 1/0292** (2013.01 - EP); F25J 1/0072 (2013.01 - US); F25J 1/0216 (2013.01 - US); F25J 1/0218 (2013.01 - US); F25J 1/0278 (2013.01 - US); F25J 1/0283 (2013.01 - US); F25J 1/029 (2013.01 - US); F25J 1/0292 (2013.01 - US); F25J 2210/04 (2013.01 - EP US); F25J 2220/64 (2013.01 - EP US); F25J 2230/60 (2013.01 - EP US); F25J 2245/02 (2013.01 - EP US); F25J 2270/90 (2013.01 - EP US)

Citation (search report)

See references of WO 2018115659A1

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)

WO 2018115659 A1 20180628; BR 112019012890 A2 20191126; CN 110537064 A 20191203; EP 3559572 A1 20191030; FR 3061277 A1 20180629; FR 3061277 B1 20190524; US 2019310014 A1 20191010

DOCDB simple family (application)

FR 2017053610 W 20171215; BR 112019012890 A 20171215; CN 201780085095 A 20171215; EP 17825589 A 20171215; FR 1663183 A 20161222; US 201716470218 A 20171215