

Title (en)

SYSTEM AND METHOD FOR COOLING A BOG STREAM

Title (de)

SYSTEM UND VERFAHREN ZUM KÜHLEN EINES BOIL-OFF-GASSTROMS

Title (fr)

SYSTEME ET PROCEDE POUR REFROIDIR UN COURANT DE VAPORISAT

Publication

**EP 1861670 A1 20071205 (EN)**

Application

**EP 06716763 A 20060308**

Priority

- NO 2006000090 W 20060308
- NO 20051315 A 20050314

Abstract (en)

[origin: WO2006098630A1] A system for cooling a boil-off gas (BOG) stream prior to compression in a boil-off reliquefaction plant, comprising a line (10) for feeding BOG into a compressor (11; 11") prior to heat exchange with a closed-loop refrigeration system. The refrigeration system comprising compressors (2, 3, 4) and expanders(8, 9) and a number of heat ex-changers for heat exchange with the BOG stream. The expanders (8, 9) are arranged in series. A precooler in the feed line (10) is fluidly connected (32, 33) to the closed-loop refrigeration system, whereby said BOG is pre-cooled in heat exchange with a portion of the coolant in the closed-loop refrigeration system prior to said compression.

IPC 8 full level

**F25J 1/02** (2006.01)

IPC 8 main group level

**F25B** (2006.01)

CPC (source: EP KR US)

**F25J 1/0025** (2013.01 - EP US); **F25J 1/005** (2013.01 - EP US); **F25J 1/0072** (2013.01 - EP US); **F25J 1/02** (2013.01 - KR); **F25J 1/0204** (2013.01 - EP US); **F25J 1/0277** (2013.01 - EP US); **F25J 1/0288** (2013.01 - EP US); **F25J 2230/04** (2013.01 - EP US); **F25J 2230/08** (2013.01 - EP US); **F25J 2230/20** (2013.01 - EP US); **F25J 2230/30** (2013.01 - EP US); **F25J 2230/60** (2013.01 - EP US); **F25J 2270/16** (2013.01 - EP US); **F25J 2290/10** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2006098630 A1 20060921**; CN 101137878 A 20080305; EP 1861670 A1 20071205; EP 1861670 A4 20180124; KR 101194474 B1 20121024; KR 20070119686 A 20071220; NO 20051315 D0 20050314; NO 20051315 L 20060915; US 2008202158 A1 20080828

DOCDB simple family (application)

**NO 2006000090 W 20060308**; CN 200680008073 A 20060308; EP 06716763 A 20060308; KR 20077023447 A 20060308; NO 20051315 A 20050314; US 81782506 A 20060308