

Title (en)

SYSTEM AND METHOD FOR LIQUEFACTION OF NATURAL GAS

Title (de)

SYSTEM UND VERFAHREN ZUR VERFLÜSSIGUNG VON ERDGAS

Title (fr)

PROCÉDÉ ET APPAREIL POUR LA LIQUÉFACTION DE GAZ NATUREL

Publication

**EP 3379186 A1 20180926 (EN)**

Application

**EP 17290042 A 20170323**

Priority

EP 17290042 A 20170323

Abstract (en)

Systems and methods are provided for the production of liquefied natural gas. At least one of the systems may include a plurality of compression assemblies in fluid communication with a precooler assembly. One compression assembly may be a part of a precooling loop and may include at least one compressor driven by a variable or fixed speed motor. Another compression assembly may be part of a liquefaction loop and may include at least one pair of compressors, each compressor driven by a respective turbine. The liquefaction loop may be fluidly coupled to a main heat exchanger utilized to liquefy at least a portion of a feed gas stream containing natural gas flowing through the main heat exchanger, thereby producing liquefied natural 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 US); **F25J 1/0052** (2013.01 - EP); **F25J 1/0055** (2013.01 - EP US); **F25J 1/0087** (2013.01 - EP US); **F25J 1/0216** (2013.01 - EP); **F25J 1/0272** (2013.01 - EP); **F25J 1/0283** (2013.01 - EP US); **F25J 1/0284** (2013.01 - EP US); **F25J 1/0289** (2013.01 - EP US); **F25J 1/0292** (2013.01 - EP); **F25J 1/0294** (2013.01 - EP); **F25J 1/0216** (2013.01 - US)

Citation (search report)

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- [A] VINK K J ET AL: "COMPARISON OF BASELOAD LIQUEFACTION PROCESSES//COMPARISON DES PROCEDES DE LIQUEFACTION DES USINES DE GRANDE CAPACITE", INTERNATIONAL CONFERENCE AND EXHIBITION ON LIQUEFIED NATURAL, XX, XX, no. 12TH, 4 May 1998 (1998-05-04), pages 3.6/1 - 15, XP009081893
- [A] RICHARDSON F W ET AL: "COMPRESSOR AND DRIVER ENHANCEMENTS FOR LARGE LNG PLANTS-LOOK AGAIN AT COMBINED CYCLE OPTIONS//PERFECTIONNEMENTS DU COMPRESSEUR ET DU MOTEUR POUR DES SITES DE PRODUCTION IMPORTANTE DE GNL-AUTRE REGARD SUR LES OPTIONS A CYCLE COMBINÉ", INTERNATIONAL CONFERENCE AND EXHIBITION ON LIQUEFIED NATURAL, XX, XX, 14 May 2001 (2001-05-14), pages PS5 - 6.01, XP009025964

Designated contracting state (EPC)

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Designated extension state (EPC)

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