

Title (en)

GAS LIQUEFACTION SYSTEM AND METHOD

Title (de)

SYSTEM ZUR GASVERFLÜSSIGUNG UND ZUGEHÖRIGE METHODE

Title (fr)

SYSTÈME ET PROCÉDÉ DE LIQUÉFACTION DE GAZ

Publication

**EP 2567159 B1 20161228 (EN)**

Application

**EP 11720246 A 20110502**

Priority

- ES 201030658 A 20100503
- US 2011034842 W 20110502

Abstract (en)

[origin: WO2011139989A2] A system and a method for liquefaction of gases which are utilized in their liquid state as refrigerants in applications that require low temperatures, throughout various pressure ranges, from slightly above atmospheric pressures to pressures near the critical point. The system and method are based on closed-cycle cryocoolers and utilize the thermodynamic properties of the gas to achieve optimal liquefaction rates.

IPC 8 full level

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

CPC (source: EP)

**F25J 1/0007** (2013.01); **F25J 1/0225** (2013.01); **F25J 1/0258** (2013.01); **F25J 1/0276** (2013.01); **F25J 2230/30** (2013.01); **F25J 2270/908** (2013.01); **F25J 2290/60** (2013.01); **F25J 2290/62** (2013.01)

Cited by

CN116520212A; DE102021205423A1; WO2022248255A1; DE102021205423B4

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

DOCDB simple family (publication)

**WO 2011139989 A2 20111110; WO 2011139989 A3 20120105**; CN 102971593 A 20130313; CN 102971593 B 20151216; EP 2567159 A2 20130313; EP 2567159 B1 20161228; ES 2617357 T3 20170616; JP 2013531773 A 20130808; JP 5891221 B2 20160322

DOCDB simple family (application)

**US 2011034842 W 20110502**; CN 201180033135 A 20110502; EP 11720246 A 20110502; ES 11720246 T 20110502; JP 2013509151 A 20110502