

Title (en)

Method and system for at least partially liquefying methane containing gas

Title (de)

Verfahren und System zur zumindest teilweisen Verflüssigung von methanhaltigem Gas

Title (fr)

Procédé et système pour liquéfier au moins partiellement du gaz contenant du méthane

Publication

**EP 2799797 A3 20151111 (EN)**

Application

**EP 14166079 A 20140425**

Priority

NL 2010751 A 20130502

Abstract (en)

[origin: EP2799797A2] The invention relates to a method for at least partially converting methane-containing gas to a liquid state, comprising the steps of: - compressing in a compressor methane-containing gas which is supplied from a gas source; - feeding the compressed methane-containing gas from the compressor to a cooling unit, the gas then being cooled such that the methane-containing gas is brought at least partially into a liquid state and a methane-containing mixture is created; - feeding from the cooling unit to a heat exchanger the cooled methane-containing mixture which is then further cooled in the heat exchanger such that the methane-containing gas remaining in the methane-containing mixture is converted to a liquid state; - releasing pressure from the methane-containing mixture, thereby creating a fraction of liquid and a fraction of flash-gas; and - feeding the fraction of liquid to a storage vessel. The invention further relates to a system herefor.

IPC 8 full level

**F25J 1/02** (2006.01)

CPC (source: EP)

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Citation (search report)

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- [I] WO 2010108464 A2 20100930 - MARINE SERVICE GMBH [DE], et al
- [A] US 2003182947 A1 20031002 - KIMBLE E LAWRENCE [US], et al
- [I] HATANAKA N ET AL: "A CHALLENGE TO ADVANCE LNG TRANSPORT FOR THE 21ST CENTURY- LNG JAMAL: NEW LNG CARRIER WITH RELIQUEFACTION PLANT", INTERNATIONAL CONFERENCE ON LNG., vol. 13, 1 January 2001 (2001-01-01), pages 6/2.1 - 6/2.8, XP009078520

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