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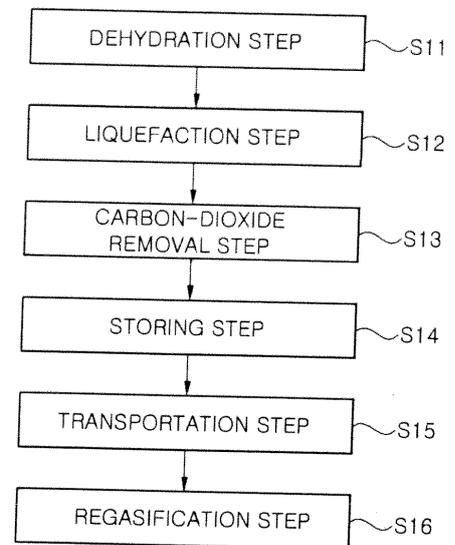
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(54) **Method for producing pressurized liquefied natural gas and production system therefor**

(57) A method for producing pressurized liquefied natural gas and a production system therefor are provided. The method for producing pressurized liquefied natural gas includes: performing a dehydration process (S11) to remove water from natural gas supplied from a natural gas field, without a process of removing acid gas from the natural gas; and performing a liquefaction process (S12) to produce pressurized liquefied natural gas by liquefying the natural gas, which has undergone the dehydration process, at a pressure of 13 to 25 bar and a temperature of -120 to -95°C, without a process of fractionating natural gas liquid (NGL). Accordingly, it is possible to reduce plant construction costs and maintenance expenses and reduce LNG production costs. In addition, it is possible to guarantee high economic profit and reduce payback period in small and medium-sized gas fields, from which economic feasibility could not be ensured by the use of a conventional method.

Fig. 1



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EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 2 996 891 A (TUNG SHAO E) 22 August 1961 (1961-08-22) * column 2, line 1 - line 28; figures 1,2 * * column 3, line 9 - line 14 * * column 4, line 45 - line 46 * -----	1,2,4,5	INV. F25J1/00 F25J1/02 F17C1/00
X	US 2007/017250 A1 (TURNER TERRY D [US] ET AL) 25 January 2007 (2007-01-25) * paragraphs [0042], [0054], [0057], [0076]; figure 2 * -----	1,2,4,5,8-10	
X	US 6 082 133 A (BARCLAY MICHAEL A [US] ET AL) 4 July 2000 (2000-07-04) * column 6, lines 36,37; figure 2 * * column 5, line 45 - line 50 * * column 10, line 50 - line 58 * -----	1,2,4,5	
			TECHNICAL FIELDS SEARCHED (IPC)
			F25J
-The present search report has been drawn up for all claims			
Place of search <b>Munich</b>		Date of completion of the search <b>11 October 2017</b>	Examiner <b>Schopfer, Georg</b>
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document	

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**CLAIMS INCURRING FEES**

The present European patent application comprised at the time of filing claims for which payment was due.

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Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

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No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

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**LACK OF UNITY OF INVENTION**

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

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see sheet B

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All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

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As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

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Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

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None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

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1, 2, 4, 5, 8-10

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The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).

**LACK OF UNITY OF INVENTION  
SHEET B**Application Number  
EP 11 18 5499

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

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1. claims: 1, 2, 4, 5, 8-10

Searched Invention (Liquefaction with CO<sub>2</sub> removal)

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2. claims: 3, 6, 7

Storage of pressurized LNG in a storage container having a dual structure

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3. claims: 11-20

Refrigeration by cooling cycle with coolant cooling unit with separate coolant heat exchanger.

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ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.

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5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

11-10-2017

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