

Title (en)  
METHOD AND SYSTEM FOR THE RE-LIQUEFACTION OF BOIL-OFF GAS

Title (de)  
VERFAHREN UND SYSTEM ZUR WIEDERVERFLÜSSIGUNG VON BOIL-OFF-GAS

Title (fr)  
PROCÉDÉ ET SYSTÈME POUR LA RE-LIQUÉFACTION DU GAZ D'ÉVAPORATION

Publication  
**EP 3063486 A2 20160907 (EN)**

Application  
**EP 14790258 A 20141015**

Priority  
• GB 201318996 A 20131028  
• GB 2014053090 W 20141015

Abstract (en)  
[origin: GB2519594A] A method for liquefying boil-off gas comprises storing a liquefied hydrocarbon gas in a store, processing streams of gaseous cryogenic fluid 12 and liquefied hydrocarbon gas 1 by transferring heat, such that the liquefied hydrocarbon gas becomes gaseous and the gaseous cryogenic fluid becomes liquefied. The liquefied cryogenic fluid is stored in a store 24. The gaseous boil-off gas becomes liquefied and is then stored as liquefied boil-off gas in a store 11. The method further comprises controlling the flow rate of the gaseous cryogenic fluid based in part on the flow rate of the liquefied hydrocarbon gas and independently controlling the flow rate of the liquefied cryogenic fluid based in part on the flow rate of the gaseous boil-off gas. A corresponding system is provided. The liquefied hydrocarbon gas is preferably liquefied natural gas (LNG) and the cryogen is preferably nitrogen or air.

IPC 8 full level  
**F25J 1/00** (2006.01)

CPC (source: CN EP GB)  
**F25J 1/0012** (2013.01 - CN EP); **F25J 1/0015** (2013.01 - CN EP); **F25J 1/0025** (2013.01 - CN EP GB); **F25J 1/004** (2013.01 - CN EP); **F25J 1/005** (2013.01 - CN EP); **F25J 1/007** (2013.01 - GB); **F25J 1/0072** (2013.01 - CN EP GB); **F25J 1/0204** (2013.01 - CN EP); **F25J 1/0208** (2013.01 - CN EP); **F25J 1/0221** (2013.01 - CN EP); **F25J 1/0236** (2013.01 - EP); **F25J 1/0245** (2013.01 - CN EP); **F25J 1/0251** (2013.01 - CN EP); **F25J 1/0268** (2013.01 - CN EP); **F25J 1/0292** (2013.01 - EP); **F25J 2210/42** (2013.01 - CN EP); **F25J 2210/62** (2013.01 - CN EP GB); **F25J 2210/90** (2013.01 - GB); **F25J 2230/08** (2013.01 - CN EP); **F25J 2230/30** (2013.01 - CN EP); **F25J 2230/42** (2013.01 - CN EP); **F25J 2235/42** (2013.01 - CN EP); **F25J 2235/60** (2013.01 - CN EP); **F25J 2240/12** (2013.01 - CN EP); **F25J 2240/90** (2013.01 - CN EP); **F25J 2270/904** (2013.01 - CN EP); **F25J 2280/02** (2013.01 - GB)

Citation (search report)  
See references of WO 2015063453A2

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**GB 201318996 D0 20131211**; **GB 2519594 A 20150429**; CN 105683690 A 20160615; CN 105683690 B 20200313; DK 3063486 T3 20200907; EP 3063486 A2 20160907; EP 3063486 B1 20200708; ES 2819212 T3 20210415; JP 2016535211 A 20161110; JP 6591410 B2 20191016; PL 3063486 T3 20210208; PT 3063486 T 20201001; WO 2015063453 A2 20150507; WO 2015063453 A3 20150827

DOCDB simple family (application)  
**GB 201318996 A 20131028**; CN 201480059276 A 20141015; DK 14790258 T 20141015; EP 14790258 A 20141015; ES 14790258 T 20141015; GB 2014053090 W 20141015; JP 2016526826 A 20141015; PL 14790258 T 20141015; PT 14790258 T 20141015