

Title (en)
METHOD FOR TREATING A LIQUEFIED NATURAL GAS STREAM OBTAINED BY COOLING USING A FIRST REFRIGERATING CYCLE AND RELATED INSTALLATION

Title (de)
VERFAHREN ZUR BEHANDLUNG EINES DURCH KÜHLEN UNTER VERWENDUNG EINES ERSTEN KÜHLZYKLUS ERHALTENEN VERFLÜSSIGTEN ERDGASSTROMS UND VERWANDTE ANLAGE

Title (fr)
PROCEDE DE TRAITEMENT D'UN COURANT DE GNL OBTENU PAR REFROIDISSEMENT AU MOYEN D'UN PREMIER CYCLE DE REFRIGERATION ET INSTALLATION ASSOCIEE

Publication
EP 1946026 A2 20080723 (FR)

Application
EP 06820179 A 20061010

Priority
• FR 2006002273 W 20061010
• FR 0510329 A 20051010

Abstract (en)
[origin: WO2007042662A2] The invention concerns a method which consists in cooling the LNG stream (11) with a coolant (83) in a first heat exchanger (19). The coolant (83) is subjected to a second semi-open refrigerating cycle (21), independent of the first cycle (15). The method includes a step of introducing the under-cooled LNG stream (59) in a distillation column (49) and a step of recovering a gas stream (69) at the head of the column (49). The second refrigerating cycle (21) includes a step of forming a coolant stream (73) from part of the head gas stream (69), a step of compressing the coolant stream (73) up to a high pressure, then a step of expanding part (81) of the compressed coolant stream (75) to form an essentially liquid under-cooling stream (83). The essentially liquid stream (83) is evaporated in the first heat exchanger (19).

IPC 8 full level
F25J 1/02 (2006.01); **F25J 3/02** (2006.01)

CPC (source: EP KR US)
F25J 1/0022 (2013.01 - EP US); **F25J 1/0037** (2013.01 - EP US); **F25J 1/004** (2013.01 - EP US); **F25J 1/0042** (2013.01 - EP US); **F25J 1/0045** (2013.01 - EP US); **F25J 1/0052** (2013.01 - EP US); **F25J 1/02** (2013.01 - KR); **F25J 1/0208** (2013.01 - EP US); **F25J 1/0219** (2013.01 - EP US); **F25J 1/0268** (2013.01 - EP US); **F25J 1/0274** (2013.01 - EP US); **F25J 1/0283** (2013.01 - EP US); **F25J 1/0285** (2013.01 - EP US); **F25J 1/0288** (2013.01 - EP US); **F25J 3/02** (2013.01 - KR); **F25J 3/0209** (2013.01 - EP US); **F25J 3/0233** (2013.01 - EP US); **F25J 3/0257** (2013.01 - EP US); **F25J 2200/02** (2013.01 - EP US); **F25J 2200/70** (2013.01 - EP US); **F25J 2210/06** (2013.01 - EP US); **F25J 2215/04** (2013.01 - EP US); **F25J 2240/30** (2013.01 - EP US); **F25J 2270/04** (2013.01 - EP US); **F25J 2270/12** (2013.01 - EP US); **F25J 2270/60** (2013.01 - EP US); **F25J 2270/66** (2013.01 - EP US); **F25J 2290/80** (2013.01 - EP US); **Y10S 62/927** (2013.01 - EP US)

Citation (search report)
See references of WO 2007042662A2

Cited by
US10480851B2; US10663221B2; US11408676B2; US9441877B2; US10502483B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
FR 2891900 A1 20070413; **FR 2891900 B1 20080104**; CA 2625577 A1 20070419; CA 2625577 C 20140819; CN 101313188 A 20081126; CN 101313188 B 20110504; EA 011605 B1 20090428; EA 200801047 A1 20080829; EP 1946026 A2 20080723; EP 1946026 B1 20180117; ES 2665743 T3 20180427; JP 2009512831 A 20090326; JP 4854743 B2 20120118; KR 101291220 B1 20130731; KR 20080063470 A 20080704; MY 152657 A 20141031; NZ 567356 A 20110429; US 2007095099 A1 20070503; US 7628035 B2 20091208; WO 2007042662 A2 20070419; WO 2007042662 A3 20070628

DOCDB simple family (application)
FR 0510329 A 20051010; CA 2625577 A 20061010; CN 200680043721 A 20061010; EA 200801047 A 20061010; EP 06820179 A 20061010; ES 06820179 T 20061010; FR 2006002273 W 20061010; JP 2008534049 A 20061010; KR 20087008586 A 20061010; MY PI20081035 A 20061010; NZ 56735606 A 20061011; US 53982806 A 20061009