

Title (en)

Integrated NGL recovery in the production of liquefied natural gas

Title (de)

Integrierte NGL-Gewinnung bei der Erzeugung von Flüssigerdgas

Title (fr)

Récupération intégrée de liquides de gaz naturel durant la liquéfaction de gaz naturel

Publication

EP 1881283 A2 20080123 (EN)

Application

EP 07112504 A 20070716

Priority

US 49132906 A 20060721

Abstract (en)

Natural gas (100) is liquefied and components heavier than methane are recovered by a process in which cooled natural gas (116) is separated into an overhead vapor (122) enriched in methane and a bottoms stream (134) enriched in the heavier components in a first distillation column (118) which utilizes a liquefied methane-containing reflux stream (127 + 138). This reflux stream may be provided by a condensed portion (126) of the overhead vapor (122) or a portion of totally condensed overhead vapor (122) that is subsequently warmed. The bottoms stream (134) may be separated (136) to provide one or more product streams, any of which are partially or totally withdrawn (C2, C3, C4) as recovered hydrocarbons. A stream of unrecovered liquid hydrocarbons (138) may be combined with said condensed portion (126) or said subsequently warmed portion.

IPC 8 full level

F25J 1/02 (2006.01); **F25J 3/02** (2006.01)

CPC (source: EP KR US)

C10L 3/06 (2013.01 - KR); **F25J 1/0022** (2013.01 - EP US); **F25J 1/004** (2013.01 - EP US); **F25J 1/0045** (2013.01 - EP US); **F25J 1/0052** (2013.01 - EP US); **F25J 1/0055** (2013.01 - EP US); **F25J 1/0216** (2013.01 - EP US); **F25J 1/0231** (2013.01 - EP US); **F25J 1/0241** (2013.01 - EP US); **F25J 1/0247** (2013.01 - EP US); **F25J 1/0262** (2013.01 - EP US); **F25J 1/0265** (2013.01 - EP US); **F25J 3/00** (2013.01 - KR); **F25J 3/0209** (2013.01 - EP US); **F25J 3/0233** (2013.01 - EP US); **F25J 3/0238** (2013.01 - EP US); **F25J 3/0242** (2013.01 - EP US); **F25J 3/0247** (2013.01 - EP US); **F25J 2200/04** (2013.01 - EP US); **F25J 2200/30** (2013.01 - EP US); **F25J 2200/70** (2013.01 - EP US); **F25J 2200/72** (2013.01 - EP US); **F25J 2200/78** (2013.01 - EP US); **F25J 2205/30** (2013.01 - EP); **F25J 2205/50** (2013.01 - US); **F25J 2215/62** (2013.01 - EP US); **F25J 2215/64** (2013.01 - EP US); **F25J 2215/66** (2013.01 - EP US); **F25J 2245/02** (2013.01 - EP US); **F25J 2270/12** (2013.01 - EP US); **F25J 2270/66** (2013.01 - EP US); **F25J 2280/10** (2013.01 - EP US)

Cited by

RU2502545C1; RU2614947C1; US10480851B2; US11408673B2; US11428463B2; US10215485B2; WO2016134815A1; WO2012001001A3; US10663221B2; US11408676B2; US9441877B2; US10502483B2

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AL BA HR MK RS

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EP 1881283 A2 20080123; **EP 1881283 A3 20130410**; AU 2007203296 A1 20080207; AU 2007203296 B2 20081218; CA 2593886 A1 20080121; CA 2593886 C 20120327; CN 101108977 A 20080123; CN 101108977 B 20120718; EG 25242 A 20111120; JP 2008057962 A 20080313; JP 4713548 B2 20110629; KR 100891907 B1 20090406; KR 20080008984 A 20080124; MY 157897 A 20160815; NO 20073829 L 20080122; PE 20080391 A1 20080516; RU 2007128005 A 20090127; RU 2374575 C2 20091127; TW 200806784 A 20080201; TW I349034 B 20110921; US 2008016910 A1 20080124

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