

Title (en)

METHOD FOR LIQUEFYING NATURAL GAS WITH HIGH PRESSURE FRACTIONING

Title (de)

VERFAHREN ZUR VERFLÜSSIGUNG VON ERDGAS MIT HOCHDRUCKFRAKTIONIERUNG

Title (fr)

PROCEDE DE LIQUEFACTION D'UN GAZ NATUREL AVEC FRACTIONNEMENT A HAUTE PRESSION

Publication

EP 2205920 A2 20100714 (FR)

Application

EP 08870150 A 20081017

Priority

- FR 2008001462 W 20081017
- FR 0707829 A 20071026

Abstract (en)

[origin: FR2923001A1] The method involves cooling natural gas in a pipe (1') by water, and introducing the cooled gas in a fractionator (2) to separate a gas phase rich in methane and a liquid phase rich in hydrocarbon heavier than ethane. The liquid and gas phases at the bottom and top of fractionator are drawn off and removed, respectively. The gas phase is liquefied to produce a condensate and a gas stream. Operating conditions of the fractionator are chosen such that the liquid phase has a methane molar quantity that ranges between 10 and 150 percentages of a molar quantity of ethane in the liquid phase.

IPC 8 full level

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

CPC (source: EP US)

F25J 1/0022 (2013.01 - EP US); **F25J 1/0045** (2013.01 - EP US); **F25J 1/0052** (2013.01 - EP US); **F25J 1/0085** (2013.01 - US); **F25J 1/0214** (2013.01 - EP US); **F25J 1/0231** (2013.01 - EP US); **F25J 1/0237** (2013.01 - EP US); **F25J 1/0238** (2013.01 - EP US); **F25J 1/025** (2013.01 - EP US); **F25J 1/0292** (2013.01 - EP US); **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 2200/02** (2013.01 - EP US); **F25J 2200/30** (2013.01 - EP US); **F25J 2200/50** (2013.01 - EP US); **F25J 2200/74** (2013.01 - EP US); **F25J 2215/62** (2013.01 - EP US); **F25J 2260/02** (2013.01 - EP US); **F25J 2270/12** (2013.01 - EP US); **F25J 2290/12** (2013.01 - EP US)

Citation (search report)

See references of WO 2009087308A2

Cited by

CN103542692A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

FR 2923001 A1 20090501; **FR 2923001 B1 20151211**; BR PI0818214 A2 20160614; BR PI0818214 B1 20201013; EP 2205920 A2 20100714; EP 2205920 B1 20180411; NO 2205920 T3 20180908; RU 2010121144 A 20111210; RU 2495342 C2 20131010; US 2011048067 A1 20110303; US 9222724 B2 20151229; WO 2009087308 A2 20090716; WO 2009087308 A3 20111208

DOCDB simple family (application)

FR 0707829 A 20071026; BR PI0818214 A 20081017; EP 08870150 A 20081017; FR 2008001462 W 20081017; NO 08870150 A 20081017; RU 2010121144 A 20081017; US 73924308 A 20081017