

Title (en)
SIMPLIFIED METHOD FOR PRODUCING A METHANE-RICH STREAM AND A C2+ HYDROCARBON-RICH FRACTION FROM A FEED NATURAL-GAS STREAM, AND ASSOCIATED FACILITY

Title (de)
VEREINFACHTES VERFAHREN ZUR ERZEUGUNG EINES METHANREICHEN STROMS UND EINER C2+KOHLENWASSERSTOFFREICHEN FRAKTION AUS EINEM ERDGASZUSTROM UND ENTSPRECHENDE ANLAGE

Title (fr)
PROCÉDÉ SIMPLIFIÉ DE PRODUCTION D'UN COURANT RICHE EN MÉTHANE ET D'UNE COUPE RICHE EN HYDROCARBURES EN C2+ À PARTIR D'UN COURANT DE GAZ NATUREL DE CHARGE, ET INSTALLATION ASSOCIÉE.

Publication
EP 2630428 B1 20170607 (FR)

Application
EP 11785730 A 20111019

Priority
• FR 1058573 A 20101020
• FR 2011052439 W 20111019

Abstract (en)
[origin: WO2012052681A2] The invention relates to a method which includes cooling the feed natural gas (15) in a first heat exchanger (16), and feeding the cooled feed natural gas (40) into a disengager (18). The method includes dynamically expanding a turbine input flow (46) in a first expansion turbine (22), and feeding the expanded flow (102) into a splitter (26). Said method comprises sampling, at the head of the splitter (26), a methane-rich head stream (82) and sampling, from the compressed methane-rich head stream (86), a first recirculation stream (88). The method includes forming at least one second recirculation stream (96) obtained from the methane-rich head stream (82) downstream from the splitter (26), and forming a dynamic expansion stream (100) from the second recirculation stream (96).

IPC 8 full level
F25J 3/02 (2006.01)

CPC (source: EP US)
F25J 3/0209 (2013.01 - EP US); **F25J 3/0233** (2013.01 - EP US); **F25J 3/0238** (2013.01 - EP US); **F25J 3/0247** (2013.01 - US); **F25J 2200/02** (2013.01 - EP US); **F25J 2200/76** (2013.01 - EP US); **F25J 2205/04** (2013.01 - EP US); **F25J 2210/04** (2013.01 - EP US); **F25J 2210/06** (2013.01 - EP US); **F25J 2230/24** (2013.01 - EP US); **F25J 2230/60** (2013.01 - EP US); **F25J 2235/60** (2013.01 - EP US); **F25J 2240/02** (2013.01 - EP US); **F25J 2245/02** (2013.01 - EP US); **F25J 2270/04** (2013.01 - EP US); **F25J 2270/06** (2013.01 - EP US); **F25J 2270/88** (2013.01 - EP US); **F25J 2290/80** (2013.01 - EP US)

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

DOCDB simple family (publication)
WO 2012052681 A2 20120426; WO 2012052681 A3 20131003; AR 083476 A1 20130227; BR 112013009582 A2 20160712; BR 112013009582 A8 20201124; BR 112013009582 B1 20201208; CA 2814821 A1 20120426; CA 2814821 C 20190219; EP 2630428 A2 20130828; EP 2630428 B1 20170607; FR 2966578 A1 20120427; FR 2966578 B1 20141128; MX 2013004340 A 20130628; MX 356799 B 20180614; US 10018411 B2 20180710; US 10760851 B2 20200901; US 2013255311 A1 20131003; US 2018180356 A1 20180628

DOCDB simple family (application)
FR 2011052439 W 20111019; AR P110103858 A 20111019; BR 112013009582 A 20111019; CA 2814821 A 20111019; EP 11785730 A 20111019; FR 1058573 A 20101020; MX 2013004340 A 20111019; US 201113879743 A 20111019; US 201815901204 A 20180221