

Title (en)
HYDROCARBON GAS PROCESSING

Title (de)
BEHANDLUNG VON KOHLENWASSERSTOFFGAS

Title (fr)
TRAITEMENT DES GAZ HYDROCARBONÉS

Publication
EP 2553367 A1 20130206 (EN)

Application
EP 11766369 A 20110318

Priority

- US 201113051682 A 20110318
- US 201113048315 A 20110315
- US 78125910 A 20100517
- US 2010029331 W 20100331
- US 77247210 A 20100503
- US 75086210 A 20100331
- US 2011029034 W 20110318

Abstract (en)
[origin: WO2011126710A1] A process and an apparatus are disclosed for a compact processing assembly to recover propane, propylene, and heavier hydrocarbon components from a hydrocarbon gas stream. The gas stream is cooled, expanded to lower pressure, and fed to an absorbing means. A first distillation liquid stream from the absorbing means is fed to a mass transfer means. A first distillation vapor stream from the mass transfer means is cooled to partially condense it, forming a residual vapor stream and a condensed stream. The condensed stream is supplied as the top feed to the absorbing means. A second distillation vapor stream from the absorbing means is heated by cooling the first distillation vapor stream, combined with the residual vapor stream, and heated by cooling the gas stream. A second distillation liquid stream from the mass transfer means is heated in a heat and mass transfer means to strip out its volatile components.

IPC 8 full level
F25J 3/00 (2006.01)

CPC (source: EP US)
C10G 5/04 (2013.01 - EP US); **C10G 5/06** (2013.01 - EP US); **C10G 70/041** (2013.01 - EP); **C10G 70/046** (2013.01 - EP); **F25J 3/0209** (2013.01 - EP US); **F25J 3/0233** (2013.01 - EP US); **F25J 3/0242** (2013.01 - EP US); **C10G 2300/1025** (2013.01 - EP US); **F25J 2200/02** (2013.01 - EP US); **F25J 2200/30** (2013.01 - EP US); **F25J 2200/74** (2013.01 - EP US); **F25J 2200/78** (2013.01 - EP US); **F25J 2200/80** (2013.01 - EP); **F25J 2205/02** (2013.01 - EP US); **F25J 2205/04** (2013.01 - EP US); **F25J 2210/06** (2013.01 - EP); **F25J 2235/60** (2013.01 - EP US); **F25J 2240/02** (2013.01 - EP US); **F25J 2250/20** (2013.01 - EP); **F25J 2270/12** (2013.01 - EP US); **F25J 2270/60** (2013.01 - EP US); **F25J 2290/40** (2013.01 - EP US)

Citation (search report)
See references of WO 2011126710A1

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 2011126710 A1 20111013; AU 2011238799 A1 20120202; AU 2011238799 B2 20160114; CA 2764579 A1 20111013; CA 2764579 C 20161011; CN 102472574 A 20120523; CN 102472574 B 20150513; CO 6480968 A2 20120716; EA 023918 B1 20160729; EA 201200003 A1 20130329; EP 2553367 A1 20130206; JP 2013524149 A 20130617; JP 5870085 B2 20160224; MY 160268 A 20170228

DOCDB simple family (application)
US 2011029034 W 20110318; AU 2011238799 A 20110318; CA 2764579 A 20110318; CN 201180002402 A 20110318; CO 11180285 A 20111228; EA 201200003 A 20110318; EP 11766369 A 20110318; JP 2013502631 A 20110318; MY PI2012002341 A 20110318