

Title (en)
HYDROCARBON GAS PROCESSING

Title (de)
BEHANDLUNG VON KOHLENWASSERSTOFFGAS

Title (fr)
TRAITEMENT D'HYDROCARBURE GAZEUX

Publication
EP 2440868 A1 20120418 (EN)

Application
EP 10786534 A 20100503

Priority

- US 2010033374 W 20100503
- US 18636109 P 20090611
- US 75086210 A 20100331
- US 68961610 A 20100119
- US 71739410 A 20100304

Abstract (en)
[origin: WO2010144186A1] A process and an apparatus are disclosed for the recovery of ethane, ethylene, propane, propylene, and heavier hydrocarbon components from a hydrocarbon gas stream in a compact processing assembly. The gas stream is cooled and divided into first and second streams. The first stream is further cooled to condense substantially all of it and is thereafter expanded to lower pressure and heated to form a vapor fraction and a liquid fraction. The liquid fraction is supplied as a first top feed to an absorbing means inside the processing assembly. The second stream is also expanded to lower pressure and supplied as the bottom feed to the absorbing means. A first distillation vapor stream is collected from the upper region of the absorbing means and combined with the vapor fraction to form a combined vapor stream.

IPC 8 full level
F25J 3/00 (2006.01)

CPC (source: EP KR US)
B01D 5/00 (2013.01 - KR); **B01D 53/00** (2013.01 - KR); **C10G 5/06** (2013.01 - EP US); **F25J 3/00** (2013.01 - KR); **F25J 3/0209** (2013.01 - EP US); **F25J 3/0219** (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 5/00** (2013.01 - KR); **C10G 2400/20** (2013.01 - EP US); **F25J 2200/02** (2013.01 - EP US); **F25J 2200/30** (2013.01 - EP US); **F25J 2200/70** (2013.01 - EP US); **F25J 2200/78** (2013.01 - EP US); **F25J 2200/80** (2013.01 - EP US); **F25J 2205/04** (2013.01 - EP US); **F25J 2210/06** (2013.01 - EP US); **F25J 2210/12** (2013.01 - EP US); **F25J 2240/02** (2013.01 - EP US); **F25J 2270/12** (2013.01 - EP US); **F25J 2270/60** (2013.01 - EP US); **F25J 2290/40** (2013.01 - EP US); **F25J 2290/42** (2013.01 - EP US); **Y02C 20/20** (2013.01 - US)

Citation (search report)
See references of WO 2010144186A1

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 SE SI SK SM TR

DOCDB simple family (publication)
WO 2010144186 A1 20101216; AR 076506 A1 20110615; AU 2010259176 A1 20120119; AU 2010259176 A2 20120301; BR PI1011523 A2 20160329; CA 2763714 A1 20101216; CA 2763714 C 20170822; CN 102460049 A 20120516; CN 102460049 B 20150107; CO 6480939 A2 20120716; EA 022661 B1 20160229; EA 201270004 A1 20120730; EP 2440868 A1 20120418; JP 2012529622 A 20121122; JP 5793139 B2 20151014; KR 101680923 B1 20161129; KR 20120026617 A 20120319; MX 2011013070 A 20120201; MX 348021 B 20170524; MY 161440 A 20170414; PE 20121792 A1 20130102

DOCDB simple family (application)
US 2010033374 W 20100503; AR P100101464 A 20100430; AU 2010259176 A 20100503; BR PI1011523 A 20100503; CA 2763714 A 20100503; CN 201080025487 A 20100503; CO 11177231 A 20111222; EA 201270004 A 20100503; EP 10786534 A 20100503; JP 2012514959 A 20100503; KR 20127000742 A 20100503; MX 2011013070 A 20100503; MY PI2011005767 A 20100503; PE 2011002067 A 20100503