

Title (en)

PROCESS AND DEVICE FOR THE CRYOGENIC SEPARATION OF A METHANE-RICH STREAM

Title (de)

VERFAHREN UND VORRICHTUNG ZUR KRYOGENEN TRENNUNG EINES METHANREICHEN STROMS

Title (fr)

PROCÉDÉ ET APPAREIL DE SÉPARATION CRYOGÉNIQUE D'UN DÉBIT RICHE EN MÉTHANE

Publication

EP 2673582 A2 20131218 (FR)

Application

EP 12707884 A 20120208

Priority

- FR 1151013 A 20110209
- FR 2012050269 W 20120208

Abstract (en)

[origin: WO2012107688A2] In a process for the cryogenic separation of a methane-rich feed stream containing between 3 and 35% of oxygen and also nitrogen, the feed stream is cooled in order to produce a cooled stream, at least one portion of the cooled stream is sent to a distillation column (6), a bottom stream is withdrawn from the distillation column, the bottom stream being enriched in methane compared to the feed stream, a stream enriched in oxygen compared to the feed stream is withdrawn from the distillation column, and a nitrogen-rich stream (20, 21) is sent to the column.

IPC 8 full level

F25J 3/02 (2006.01); **F25J 3/04** (2006.01); **F25J 3/08** (2006.01)

CPC (source: EP US)

F25J 3/0209 (2013.01 - EP US); **F25J 3/0233** (2013.01 - EP US); **F25J 3/0257** (2013.01 - EP US); **F25J 3/04563** (2013.01 - EP US);
F25J 3/061 (2013.01 - US); **F25J 2200/02** (2013.01 - EP US); **F25J 2200/70** (2013.01 - EP US); **F25J 2210/40** (2013.01 - EP US);
F25J 2210/42 (2013.01 - EP US); **F25J 2210/66** (2013.01 - EP US); **F25J 2260/44** (2013.01 - EP US); **F25J 2270/904** (2013.01 - EP US);
F25J 2280/10 (2013.01 - EP US); **F25J 2290/90** (2013.01 - EP US)

Citation (search report)

See references of WO 2012107688A2

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

FR 2971332 A1 20120810; FR 2971332 B1 20170616; EP 2673582 A2 20131218; EP 2673582 B1 20181010; US 10132562 B2 20181120;
US 2013312457 A1 20131128; WO 2012107688 A2 20120816; WO 2012107688 A3 20140724

DOCDB simple family (application)

FR 1151013 A 20110209; EP 12707884 A 20120208; FR 2012050269 W 20120208; US 201213983335 A 20120208