

Title (en)

Method and apparatus for preparing a lean methane-containing gas stream

Title (de)

Verfahren und Vorrichtung zum Erzeugen eines schwach methanhaltigen Gasstromes

Title (fr)

Procédé et appareil de préparation d'un courant de gaz contenant du méthane pauvre

Publication

**EP 2597407 A1 20130529 (EN)**

Application

**EP 11190285 A 20111123**

Priority

EP 11190285 A 20111123

Abstract (en)

A hydrocarbon feed stream is passed to an extraction column. A recycle portion of the liquid bottom stream withdrawn from the extraction column is recycled back into the extraction column, whereby the recycle portion enters the extraction column in liquid phase. The recycle portion has the same composition as the liquid bottom stream being withdrawn from the extraction column. A vaporous overhead stream is withdrawn from the extraction column, from which a lean methane-containing gas stream is produced.

IPC 8 full level

**F25J 3/02** (2006.01)

CPC (source: EP)

**F25J 3/0209** (2013.01); **F25J 3/0233** (2013.01); **F25J 3/0238** (2013.01); **F25J 3/0242** (2013.01); **F25J 2200/04** (2013.01); **F25J 2200/74** (2013.01); **F25J 2205/04** (2013.01); **F25J 2205/30** (2013.01); **F25J 2230/32** (2013.01); **F25J 2230/60** (2013.01); **F25J 2235/02** (2013.01); **F25J 2240/02** (2013.01); **F25J 2260/20** (2013.01)

Citation (applicant)

- US 2006260355 A1 20061123 - ROBERTS MARK J [US], et al
- US 2009064713 A1 20090312 - BUIJS CORNELIS [NL], et al

Citation (search report)

- [XYI] GB 2178445 A 19870211 - LINDE AG
- [Y] US 6662589 B1 20031216 - ROBERTS MARK JULIAN [US], et al
- [Y] WO 9715639 A1 19970501 - ADVANCED EXTRACTION TECHNOL [US]
- [A] US 5325673 A 19940705 - DURR CHARLES A [US], et al
- [A] US 4883515 A 19891128 - MEHRA YUV R [US], et al

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)

**EP 2597407 A1 20130529**

DOCDB simple family (application)

**EP 11190285 A 20111123**