

Title (en)

METHOD AND PLANT FOR PURIFYING A CRUDE GAS USING A LIQUID SOLVENT

Title (de)

VERFAHREN UND ANLAGE ZUR REINIGUNG EINES ROHGASES UNTER VERWENDUNG EINES FLÜSSIGEN LÖSUNGSMITTELS

Title (fr)

PROCÉDÉ ET INSTALLATION D'ÉPURATION D'UN GAZ BRUT PAR UN SOLVANT LIQUIDE

Publication

**EP 3846922 A1 20210714 (FR)**

Application

**EP 19762157 A 20190903**

Priority

- FR 1857930 A 20180904
- EP 2019073496 W 20190903

Abstract (en)

[origin: WO2020049006A1] According to a method for purifying a crude gas, a liquid solvent circulating in a circuit is used, the method comprising:  
- compressing the crude gas; purifying the compressed gas by introducing said compressed gas into a purifier (2) which is kept under pressure, the solvent being circulated in the purifier (2) against the flow of the crude gas such that a second gas is dissolved in the solvent, a purified gas essentially comprising a first gas which is extracted from the top of the column; - regenerating the solvent collected in the purifier (2) by supplying the same to a regenerator (3) kept at a lower pressure, such that the second gas dissolved in the solvent is volatilised and extracted to form a polluting gas; - a recycling step, wherein the solvent from the regenerator (3) is supplied to the purifier (2) at the top of the column. The invention also relates to a plant which implements the purification method.

IPC 8 full level

**B01D 53/14** (2006.01); **C10L 3/10** (2006.01)

CPC (source: EP)

**B01D 53/1406** (2013.01); **B01D 53/1418** (2013.01); **B01D 53/1425** (2013.01); **B01D 53/1475** (2013.01); **B01D 53/1487** (2013.01); **B01D 53/1493** (2013.01); **C10L 3/104** (2013.01); **B01D 2252/103** (2013.01); **B01D 2252/205** (2013.01); **B01D 2256/245** (2013.01); **B01D 2257/102** (2013.01); **Y02C 20/40** (2020.08)

Citation (search report)

See references of WO 2020049006A1

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 3085281 A1 20200306**; **FR 3085281 B1 20230120**; EP 3846922 A1 20210714; WO 2020049006 A1 20200312

DOCDB simple family (application)

**FR 1857930 A 20180904**; EP 19762157 A 20190903; EP 2019073496 W 20190903