

Title (en)
INTEGRATED HEAVY HYDROCARBON AND BTEX REMOVAL IN LNG LIQUEFACTION FOR LEAN GASES

Title (de)
INTEGRIERTE ENTFERNUNG VON SCHWEREM KOHLENWASSERSTOFF UND BTEX IN DER LNG-VERFLÜSSIGUNG FÜR MAGERGASE

Title (fr)
ÉLIMINATION INTÉGRÉE D'HYDROCARBURES LOURDS ET DE BTEX DANS LA LIQUÉFACTION DE GNL POUR DES GAZ PAUVRES

Publication
EP 3894047 A4 20220914 (EN)

Application
EP 19895601 A 20191212

Priority

- US 201816219126 A 20181213
- US 201916421138 A 20190523
- US 2019065993 W 20191212

Abstract (en)
[origin: WO2020123814A1] A method for removing heavy hydrocarbons from a feed gas by: feeding, into an absorber, a top reflux stream and a second reflux stream below the top reflux stream, wherein the absorber produces an absorber bottom product stream and an absorber overhead product stream; depressurizing and feeding the absorber bottom product stream to a stripper to produce a stripper bottom product stream and a stripper overhead product stream; cooling and feeding a portion of the absorber overhead product stream back to the absorber as the top reflux stream; and pressurizing and feeding the stripper overhead product stream back to the absorber as the second reflux stream. Systems for carrying out the method are also provided.

IPC 8 full level
B01D 53/047 (2006.01); **F25J 3/00** (2006.01)

CPC (source: EP)
F25J 3/0209 (2013.01); **F25J 3/0233** (2013.01); **F25J 3/0238** (2013.01); **B01D 53/002** (2013.01); **B01D 53/1462** (2013.01); **B01D 53/1475** (2013.01); **B01D 53/261** (2013.01); **B01D 2252/20484** (2013.01); **B01D 2252/20489** (2013.01); **B01D 2256/24** (2013.01); **B01D 2256/245** (2013.01); **B01D 2257/504** (2013.01); **B01D 2257/602** (2013.01); **B01D 2257/7022** (2013.01); **B01D 2257/80** (2013.01); **C10L 3/101** (2013.01); **F25J 2200/04** (2013.01); **F25J 2200/70** (2013.01); **F25J 2200/76** (2013.01); **F25J 2205/04** (2013.01); **F25J 2220/60** (2013.01); **F25J 2230/08** (2013.01); **F25J 2240/02** (2013.01); **F25J 2260/20** (2013.01); **F25J 2270/12** (2013.01); **F25J 2270/60** (2013.01); **F25J 2290/40** (2013.01)

Citation (search report)

- [X] US 2006283207 A1 20061221 - PITMAN RICHARD N [US], et al
- [X] WO 02079706 A1 20021010 - ABB LUMMUS GLOBAL INC [US]
- [I] US 7219513 B1 20070522 - MOSTAFA HUSSEIN MOHAMED ISMAIL [EG]
- See references of WO 2020123814A1

Cited by
US11365933B2; US11725879B2

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 2020123814 A1 20200618; CA 3122425 A1 20200618; EP 3894047 A1 20211020; EP 3894047 A4 20220914; MX 2021006868 A 20210914

DOCDB simple family (application)
US 2019065993 W 20191212; CA 3122425 A 20191212; EP 19895601 A 20191212; MX 2021006868 A 20191212