

Title (en)

PROCESS AND APPARATUS FOR DEASPHALTING AND PITCH CONVERSION

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ENTASPHALTIERUNG UND PITCHUMWANDLUNG

Title (fr)

PROCESSUS ET APPAREIL DE DÉASPHALTAGE ET DE CONVERSION DE HAUTEUR

Publication

EP 3746524 A4 20211006 (EN)

Application

EP 19747689 A 20190130

Priority

- US 201815885554 A 20180131
- US 2019015838 W 20190130

Abstract (en)

[origin: US2019233746A1] Solvent deasphalting (SDA) is used to extract deasphalted oil from heavier hydrocarbons in series. The pitch stream from solvent deasphalting is calcined to recover volatile hydrocarbon vapor products and calcined solids. The hydrocarbon vapors can be fractionated to recover valuable transportation range fuel products. The pitch stream can be first fed to the fractionation column before calcination.

IPC 8 full level

C10G 21/00 (2006.01); **C10C 3/00** (2006.01); **C10G 55/04** (2006.01)

CPC (source: EP US)

C10C 3/002 (2013.01 - EP); **C10G 21/003** (2013.01 - EP); **C10G 53/06** (2013.01 - US); **C10G 55/04** (2013.01 - EP); **C10G 2300/107** (2013.01 - EP); **C10G 2300/1077** (2013.01 - EP); **C10G 2300/206** (2013.01 - EP US)

Citation (search report)

- [XYI] WO 0127225 A1 20010419 - EXXON RESEARCH ENGINEERING CO [US]
- [Y] US 2008156700 A1 20080703 - ABULNAGA BAH A [US], et al
- [A] US 3830732 A 19740820 - GATSIS J
- [A] US 2017306239 A1 20171026 - KOSEOGLU OMER REFA [SA]
- See references of WO 2019152510A1

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)

US 2019233746 A1 20190801; CN 111655823 A 20200911; EP 3746524 A1 20201209; EP 3746524 A4 20211006; WO 2019152510 A1 20190808

DOCDB simple family (application)

US 201815885554 A 20180131; CN 201980010250 A 20190130; EP 19747689 A 20190130; US 2019015838 W 20190130