

Title (en)

OXIDATIVE DESULFURIZATION OF OIL FRACTIONS AND SULFONE MANAGEMENT USING AN FCC

Title (de)

OXIDATIVE ENTSCHEFELUNG VON ÖLFRAKTIONEN UND SULFONVERWALTUNG UNTER VERWENDUNG EINES FCC-VERFAHRENS

Title (fr)

DÉSULFURATION OXYDATIVE DE FRACTIONS D'HUILES ET GESTION DES SULFONES À L'AIDE D'UN CRAQUAGE CATALYTIQUE FLUIDE

Publication

EP 3583192 B1 20220105 (EN)

Application

EP 18708818 A 20180220

Priority

- US 201715437276 A 20170220
- US 2018018789 W 20180220

Abstract (en)

[origin: WO2018152521A1] Embodiments provide a method and apparatus for recovering components from a hydrocarbon feedstock. According to at least one embodiment, the method includes supplying a hydrocarbon feedstock to an oxidation reactor, wherein the hydrocarbon feedstock is oxidized in the presence of a catalyst under conditions sufficient to selectively oxidize sulfur compounds and nitrogen compounds present in the hydrocarbon feedstock, separating the hydrocarbons, the oxidized sulfur compounds, and the oxidized nitrogen compounds by solvent extraction, collecting a residue stream that includes the oxidized sulfur compounds and the oxidized nitrogen compound, and supplying the first residue stream to a fluid catalytic cracking unit. The first residue stream is further supplied through a hydrotreater prior to supplying the first residue stream to the fluid catalytic cracking unit.

IPC 8 full level

C10G 53/14 (2006.01); **C10G 11/18** (2006.01); **C10G 21/16** (2006.01); **C10G 21/20** (2006.01); **C10G 21/22** (2006.01); **C10G 21/27** (2006.01); **C10G 21/28** (2006.01); **C10G 25/00** (2006.01); **C10G 27/04** (2006.01); **C10G 55/06** (2006.01); **C10G 69/04** (2006.01)

CPC (source: EP KR)

C10G 11/18 (2013.01 - EP KR); **C10G 21/16** (2013.01 - EP KR); **C10G 21/20** (2013.01 - EP KR); **C10G 21/22** (2013.01 - EP KR); **C10G 21/27** (2013.01 - EP KR); **C10G 21/28** (2013.01 - EP KR); **C10G 25/00** (2013.01 - EP KR); **C10G 27/04** (2013.01 - EP KR); **C10G 53/14** (2013.01 - EP KR); **C10G 55/06** (2013.01 - EP KR); **C10G 69/04** (2013.01 - EP KR); **C10G 2300/202** (2013.01 - EP KR); **C10G 2300/44** (2013.01 - EP KR)

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 2018152521 A1 20180823; CN 110337487 A 20191015; EP 3583192 A1 20191225; EP 3583192 B1 20220105; JP 2020510719 A 20200409; KR 20190116466 A 20191014; SG 11201907206Y A 20190927

DOCDB simple family (application)

US 2018018789 W 20180220; CN 201880012412 A 20180220; EP 18708818 A 20180220; JP 2019544875 A 20180220; KR 20197027338 A 20180220; SG 11201907206Y A 20180220