

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 3551731 A1 20191016 (EN)

Application

EP 18705215 A 20180125

Priority

- US 201715415294 A 20170125
- US 2018015275 W 20180125

Abstract (en)

[origin: WO2018140620A1] 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, supplying the residue stream to a fluid catalytic cracking unit, and recycling liquid products produced by the fluid catalytic cracking unit to the oxidation reactor to selectively oxidize sulfur compounds in the liquid products, the portion of the liquids products including at least one of light cycle oils and heavy cycle oils.

IPC 8 full level

C10G 53/04 (2006.01); **C10G 21/16** (2006.01); **C10G 21/20** (2006.01); **C10G 21/22** (2006.01); **C10G 27/04** (2006.01); **C10G 27/12** (2006.01); **C10G 27/14** (2006.01); **C10G 53/14** (2006.01); **C10G 55/06** (2006.01)

CPC (source: EP KR)

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Citation (search report)

See references of WO 2018140620A1

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