

Title (en)

DESULFURIZATION AND SULFONE REMOVAL USING A COKER

Title (de)

ENTSCHWEFELUNG UND SULFONENTFERNUNG MITHILFE EINER KOKEREI

Title (fr)

DÉSULFURATION ET ÉLIMINATION DES SULFONES À L'AIDE D'UNE UNITÉ DE COKÉFACTION

Publication

**EP 3583191 B1 20220302 (EN)**

Application

**EP 18708311 A 20180220**

Priority

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Abstract (en)

[origin: WO2018152517A1] Embodiments provide a method and apparatus for upgrading a hydrocarbon feedstock. According to at least one embodiment, the method includes (a) supplying a hydrocarbon feedstock to an oxidation reactor, where the hydrocarbon feedstock is oxidized in the presence of a catalyst under conditions sufficient to selectively oxidize sulfur compounds present in the hydrocarbon feedstock; (b) separating the hydrocarbons and the oxidized sulfur compounds by solvent extraction; (c) collecting a residue stream that includes the oxidized sulfur compounds; (d) supplying the residue stream to a coker to produce coker gases and solid coke; and (e) supplying spent adsorbent including residual oils from the adsorption column to the coker for disposing the spent adsorbent after completion of an adsorption cycle.

IPC 8 full level

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CPC (source: EP KR)

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