

Title (en)

Process and apparatus for upgrading hydrocarbon feeds containing sulfur, metals, and asphaltenes

Title (de)

Verfahren und Vorrichtung zur Verbesserung von Schwefel, Metalle und Asphalt enthaltende Kohlenwasserstoffbeschickung

Title (fr)

Procédé et appareil pour l'amélioration de charges hydrocarbonées contenant du soufre, des métaux et des asphaltenes

Publication

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Application

**EP 99117256 A 19990902**

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Abstract (en)

Upgrading of a hydrocarbon feed containing sulfur, metals, and asphaltenes involves applying the feed to a distillation column for producing a substantially asphaltene-free, and metal-free distillate fraction and a non-distilled fraction containing sulfur, asphaltenes, and metals. At least some of the substantially asphaltene-free, and metal-free distillate fraction is converted to a hydrogen donor diluent. The non-distilled fraction is processed in a solvent deasphalting unit for producing a deasphalted oil stream and an asphaltene stream. After a combined stream is formed from the hydrogen donor diluent and the deasphalted oil stream, the combined stream is thermally cracked forming a thermally cracked stream that is applied to the distillation column. <IMAGE>

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