

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

EP 0984054 A3 20000405 (EN)

Application

EP 99117256 A 19990902

Priority

- US 14653498 A 19980903
- US 26115799 A 19990303

Abstract (en)

[origin: EP0984054A2] 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>

IPC 1-7

C10G 69/00; **C10G 47/34**; **C10G 67/04**

IPC 8 full level

C10G 47/34 (2006.01); **C10G 67/04** (2006.01)

CPC (source: EP)

C10G 55/04 (2013.01); **C10G 67/16** (2013.01)

Citation (search report)

- [XY] US 4640762 A 19870203 - WOODS H JOHN [CA], et al
- [Y] US 4485004 A 19841127 - FISHER IAN P [CA], et al

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EP1096002A3

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0984054 A2 20000308; **EP 0984054 A3 20000405**; **EP 0984054 B1 20110803**; AU 5754999 A 20000327; BR 9904043 A 20000829; CA 2281058 A1 20000303; CA 2281058 C 20080805; CN 1313577 C 20070502; CN 1323339 A 20011121; EA 001938 B1 20011022; EA 199900714 A2 20000424; EA 199900714 A3 20000828; EG 21975 A 20020531; ID 23605 A 20000504; IL 141696 A0 20020310; IL 141696 A 20040725; MX PA01002304 A 20020424; TR 199902131 A2 20000421; TR 199902131 A3 20000421; WO 0014178 A1 20000316; WO 0014178 A8 20010308

DOCDB simple family (application)

EP 99117256 A 19990902; AU 5754999 A 19990831; BR 9904043 A 19990902; CA 2281058 A 19990830; CN 99812305 A 19990831; EA 199900714 A 19990902; EG 108999 A 19990901; IB 9901602 W 19990831; ID 990832 D 19990902; IL 14169699 A 19990831; MX PA01002304 A 19990831; TR 9902131 A 19990902