

Title (en)

METHOD FOR TREATING HEAVY CRUDE OIL

Title (de)

VERFAHREN ZUR BEHANDLUNG VON SCHWEREM ROHÖL

Title (fr)

PROCÉDÉ DE TRAITEMENT DE PÉTROLE BRUT LOURD

Publication

EP 2260089 A4 20111005 (EN)

Application

EP 09719531 A 20090311

Priority

- CA 2009000289 W 20090311
- US 3569008 P 20080311

Abstract (en)

[origin: WO2009111871A1] According to the invention, there is provided a method for treating heavy crude oil (HCO) which includes the steps of combining the HCO with an alkane containing solvent to form an HCO/solvent mixture, sonicating this mixture at audio frequency to precipitate asphaltenes from the HCO/solvent mixture, and separating the precipitated asphaltenes from the HCO/solvent mixture.

IPC 8 full level

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CPC (source: EP US)

C10G 21/003 (2013.01 - EP US); **C10G 32/02** (2013.01 - EP US)

Citation (search report)

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- [XYI] LANGE CARBOGNANI ET AL.: "CHARACTERIZATION OF ATHABASCA VACUUM RESIDUE AND ITS VISBROKEN PRODUCTS. STABILITY AND FAST HYDROCARBON GROUP-TYPE DISTRIBUTIONS", ENERGY AND FUEL, vol. 21, 31 December 2007 (2007-12-31), XP002657021
- [Y] KATJA THEUERKORN ET AL.: "A REPRODUCIBLE AND LINEAR METHOD FOR SEPARATING ASPHALTENES FROM CRUDE OIL", ORGANIC GEOCHEMISTRY, vol. 39, 10 March 2008 (2008-03-10), pages 929 - 934, XP002657017
- [Y] P.M. SPIECKER ET AL.: "AGGREGATION AND SOLUBILITY BEHAVIOR OF ASPHALTENES AND THEIR SUBFRACTIONS", JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol. 267, 31 December 2003 (2003-12-31), pages 178 - 193, XP002657018
- [Y] KATSUMORI TANABE ET AL.: "ROLE OF FINE SOLIDS IN THE COKING OF RESIDUES", ENERGY AND FUELS, vol. 11, no. 5, 31 December 1997 (1997-12-31), pages 1040 - 1043, XP002657019
- See references of WO 2009111871A1

Designated contracting state (EPC)

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