Title (en)

METHODS AND COMPOSITIONS FOR REMOVING SOLIDS FROM HYDROCARBON STREAMS

Title (de)

VERFAHREN UND ZUSAMMENSETZUNGEN ZUR ENTFERNUNG VON FESTSTOFFEN AUS KOHLENWASSERSTOFFSTRÖMEN

Title (fr)

PROCÉDÉS ET COMPOSITIONS POUR ÉLIMINER DES SOLIDES DANS DES FLUX D'HYDROCARBURES

Publication

EP 3514216 A1 20190724 (EN)

Application

EP 19161382 A 20131212

Priority

- US 201261736659 P 20121213
- US 201314102976 A 20131211
- EP 13861547 A 20131212
- US 2013074689 W 20131212

Abstract (en)

A demulsifying agent may be added to a hydrocarbon stream in an effective amount where the hydrocarbon stream includes a plurality of solids. The demulsifying agent may be added to the hydrocarbon stream at a location that is upstream from a desalter. The demulsifying agent may water-wet at least a portion of the solids for subsequent separation of the solids from the hydrocarbon stream. The demulsifying agent may be or include but is not limited to at least one maleic acid derivative, such as di-lauryl succinate, dioctyl succinate, di-hexyl succinate, octyl pheno succinate, dodecyl diphenyl succinate, ditridecyl succinate, dioctyl sulfosuccinate, disodium laureth sulfosuccinate, diammonium 1-icosyl 2 sulfosuccinate, ammonium 1,4 didecyl sulfosuccinate, dihexyl sodium sulfosuccinate, sodium dinonyl sulfosuccinate, sodium lauryl sulfoacetate, salts thereof, and combinations thereof.

IPC 8 full level

C10G 33/04 (2006.01)

CPC (source: EP US)

C10G 33/04 (2013.01 - EP US)

Citation (search report)

- [XI] US 3756959 A 19730904 - VITALIS E, et al
- [X] US 4336129 A 19820622 - YOSHIMURA TOKUO, et al
- [X] BE 899782 A 19840917 - ENERGECO S P A

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DOCDB simple family (publication)

US 2014166537 A1 20140619; CA 2894671 A1 20140619; CA 2894671 C 20190702; CN 104837960 A 20150812; CN 104837960 B 20180608; EP 2931844 A1 20151021; EP 2931844 A4 20160831; EP 2931844 B1 20190814; EP 3514216 A1 20190724; ES 2751385 T3 20200331; PT 2931844 T 20191112; WO 2014093633 A1 20140619

DOCDB simple family (application)

US 201314102976 A 20131211; CA 2894671 A 20131212; CN 201380065005 A 20131212; EP 13861547 A 20131212; EP 19161382 A 20131212; ES 13861547 T 20131212; PT 13861547 T 20131212; US 2013074689 W 20131212