

Title (en)
METHODS FOR UPGRADING OF CONTAMINATED HYDROCARBON STREAMS

Title (de)
VERFAHREN ZUR VEREDELUNG VON KONTAMINIERTEN KOHLENWASSERSTOFFSTRÖMEN

Title (fr)
PROCÉDÉS DE VALORISATION DE FLUX HYDROCARBONÉS CONTAMINÉS

Publication
EP 2877556 A4 20160706 (EN)

Application
EP 12881597 A 20121218

Priority
• US 201213560584 A 20120727
• US 2012070243 W 20121218

Abstract (en)
[origin: WO2014018082A1] A method of upgrading a heteroatom-containing hydrocarbon feed by removing heteroatom contaminants is disclosed. The method includes contacting the heteroatom-containing hydrocarbon feed with an oxidant to oxidize the heteroatoms, contacting the oxidized-heteroatom-containing hydrocarbon feed with caustic and a selectivity promoter, and removing the heteroatom contaminants from the heteroatom-containing hydrocarbon feed. The oxidant may be used in the presence of a catalyst.

IPC 8 full level
C10G 17/00 (2006.01); **C07C 4/02** (2006.01); **C10G 17/06** (2006.01); **C10G 19/00** (2006.01); **C10G 21/10** (2006.01); **C10G 29/00** (2006.01); **C10G 29/04** (2006.01); **C10G 29/20** (2006.01); **C10G 29/22** (2006.01)

CPC (source: CN EP)
B01J 31/123 (2013.01 - CN EP); **C10G 9/007** (2013.01 - CN EP); **C10G 19/02** (2013.01 - CN EP); **C10G 27/12** (2013.01 - CN EP); **B01J 2231/70** (2013.01 - CN EP); **C10G 2300/202** (2013.01 - CN EP); **Y02P 20/582** (2015.11 - EP)

Citation (search report)
• [X] US 2011108464 A1 20110512 - RANKIN JONATHAN P [US], et al
• [XP] US 2012285866 A1 20121115 - LITZ KYLE E [US], et al
• See references of WO 2014018082A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2014018082 A1 20140130; BR 112015000904 A2 20170627; CA 2879626 A1 20140130; CA 2879626 C 20200908; CN 104395434 A 20150304; EP 2877556 A1 20150603; EP 2877556 A4 20160706; MX 2015000923 A 20150410; RU 2015105930 A 20160920

DOCDB simple family (application)
US 2012070243 W 20121218; BR 112015000904 A 20121218; CA 2879626 A 20121218; CN 201280073811 A 20121218; EP 12881597 A 20121218; MX 2015000923 A 20121218; RU 2015105930 A 20121218