

Title (en)

SINGLE STAGE PROCESS COMBINING NON-NOBLE AND NOBLE METAL CATALYST LOADING

Title (de)

EINSTUFIGES VERFAHREN MIT KOMBINATION VON UNEDEL- UND EDELMETALL-KATALYSATORLADUNG

Title (fr)

PROCÉDÉ EN UNE SEULE ÉTAPE COMBINANT LE CHARGEMENT DE CATALYSEURS À BASE DE MÉTAUX NOBLES ET NON NOBLES

Publication

EP 3383973 A1 20181010 (EN)

Application

EP 16805162 A 20161202

Priority

- US 201562262120 P 20151202
- EP 16151262 A 20160114
- EP 2016079669 W 20161202

Abstract (en)

[origin: WO2017093534A1] The present disclosure relates to a process for reducing the amount of aromatics in a raw feed stream comprising hydrocarbons, more than 200 ppmw sulfur or 1000 ppmw sulfur as either hydrocarbon heteroatoms or as other sulfide compounds as well as at least 10% by weight di-aromatics or poly-aromatics and at least 30% by weight aromatics in total said process comprising the steps of hydrotreating said raw feed stream in the presence of hydrogen and a material catalytically active in hydrotreatment with a severity resulting in a conversion of sulfur hydro-carbon heteroatoms to hydrogen sulfide of at least 50% providing a pre-treated stream, separating said pre-treated stream at least into a second stage feed stream and a stream rich in hydrogen sulfide, directing said second stage feed stream to contact a material catalytically active in hydrocracking and ring opening, and to contact a material catalytically active in saturation of aromatics, wherein the material catalytically active in hydrocracking and ring opening is positioned upstream, downstream or mixed with said material catalytically active in saturation of aromatics, and withdrawing a dearomatized stream, wherein said the amount of aromatics of said dearomatized stream is less than 50%, 70%, 90% or 95% of the amount of aromatics in said raw feed stream, with the associated benefit of said process of providing efficient dearomatization with low yield loss.

IPC 8 full level

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CPC (source: EP US)

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Citation (examination)

US 2006131212 A1 20060622 - DAHLBERG ARTHUR J [US], et al

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