

Title (en)  
HYDROCONVERSION OF A HYDROCARBON-BASED HEAVY FEEDSTOCK IN A HYBRID EBULLATED-ENTRAINED BED, COMPRISING PREMIXING SAID FEEDSTOCK WITH AN ORGANIC ADDITIVE

Title (de)  
HYDROKONVERSION EINES SCHWEREN EINSATZSTOFFS AUF KOHLENWASSERSTOFFBASIS IN EINEM HYBRIDEN FLIESSBETT MIT VORMISCHUNG DES EINSATZSTOFFS MIT EINEM ORGANISCHEN ADDITIV

Title (fr)  
HYDROCONVERSION EN LIT HYBRIDE BOUILLONNANT-ENTRAÎNÉ D'UNE CHARGE HYDROCARBONÉE LOURDE COMPRENANT LE PRÉMÉLANGE DE LADITE CHARGE AVEC UN ADDITIF ORGANIQUE

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Abstract (en)  
[origin: WO2023280624A1] The present invention relates to a process for the hydroconversion of a heavy feedstock comprising: (a) preparing a first conditioned feedstock (103) by mixing said hydrocarbon-based heavy feedstock (101) with an organic chemical compound (102) comprising at least one carboxylic acid function and/or at least one ester function and/or an acid anhydride function; (b) preparing a second conditioned feedstock (105) by mixing a catalyst precursor composition (104) with the first conditioned feedstock such that a colloidal or molecular catalyst is formed when said feedstock is reacted with sulphur; (c) heating the second conditioned feedstock in at least one preheater; (d) introducing the heated second conditioned feedstock (106) into at least one hybrid ebullated-entrained bed reactor comprising a porous supported hydroconversion catalyst and operating said reactor in the presence of hydrogen and under hydroconversion conditions in order to produce an upgraded material (107), wherein the colloidal or molecular catalyst is formed during step (c) and/or (d).

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