

Abstract

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A Medium-pressure Hydrocracking Process

The present invention discloses a medium-pressure hydrocracking process able to simultaneously produce products such as qualified gasoline, kerosene, diesel, etc.. Based on the prior medium-pressure hydrocracking process, the present invention uses a fresh hydrogen resource and a hydrosaturation catalyst with reduced metals of group VIB and/or group VIII as the active components to selectively and deeply hydrosaturate the jet fuel and/or diesel cuts derived in the medium-pressure hydrocracking, thereby allowing the quality of these cut fractions to meet the requirement of the specifications. In the present invention, a quite favorable reaction environment is created for the deep hydrosaturation of the jet fuel and/or diesel cuts with an extremely low investment by reasonable combination of the medium-pressure hydrocracking process flow, full reliance on the medium-pressure hydrocracking, and addition of an ultra-low-pressure hydrosaturation reactor. This makes it possible to not only simultaneously produce products such as qualified gasoline, kerosene, diesel, etc., but also further lower the operation pressure of the hydrocracking since the requirement for the quality of such products as the hydrocracked jet fuel, diesel, etc. is broadened.

Fig. 2



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