" INTEGRATED HYDROTREATING AND HYDROCRACKING PROCESS "

ABSTRACT

A hydrocarbonaceous feedstock is converted in an integrated hydrotreating and hydrocracking process by combining with a hot hydrocracking zone effluent recycle stream containing hydrogen, and the mixture is passed to a denitrification and desulfurization reaction zone to produce hydrogen sulfide and ammonia to thereby clean up the fresh feedstock. The resulting hot, uncooled effluent from the denitrification and desulfurization zone is hydrogen stripped in a stripping zone maintained at essentially the same pressure as the hydrotreating zone with a hydrogen-rich gaseous stream to produce a vapor stream comprising hydrogen, hydrocarbonaceous compounds boiling at a temperature below the boiling range of the fresh feedstock, hydrogen sulfide and ammonia, and a liquid hydrocarbonaceous stream wherein at least a portion of this liquid stream is then passed to a hydrocracking step to produce the hot hydrocracking effluent recycle stream which is passed back to the hydrotreating zone.

This Sheet Has Been Replaced