

ABSTRACT OF THE DISCLOSURETHREE STAGE HYDROPROCESSING INCLUDING A VAPOR STAGE

A three stage hydroprocessing process includes two liquid and one vapor reaction stages, with a hydrogen containing vapor effluent produced in both liquid stages. The second liquid stage vapor effluent comprises part of the first liquid stage feed and the first liquid stage vapor effluent is the feed for the vapor stage. At least a portion of the hydrogen for the first liquid stage and vapor stage reactions is respectively provided by the hydrogen in the second and first liquid stage vapor effluents.



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