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(54) Title: METHOD FOR CO-PRODUCTION OF AVIATION FUEL AND DIESEL

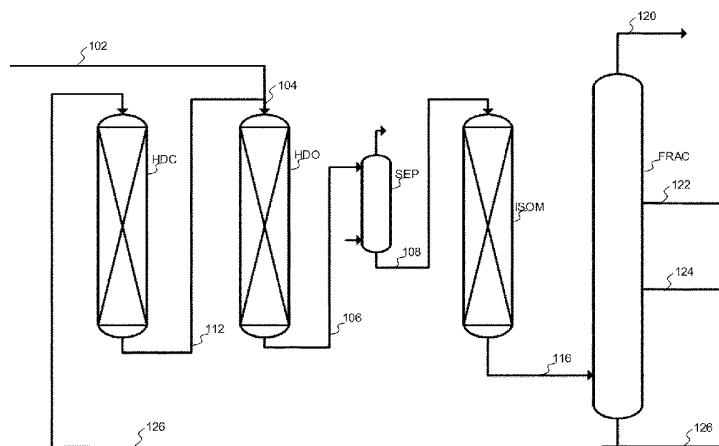


Fig. 1

(57) **Abstract:** The present disclosure relates to a process plant and a process for production of a hydrocarbon fraction suitable for use as jet fuel from a feedstock being a renewable feedstock or an oxygenate feedstock, comprising the steps of combining the feedstock with an amount of a hydrocracked intermediate product and optionally an additional liquid diluent, to form a combined feedstock, directing said combined feedstock to contact a material catalytically active in hydrodeoxygenation under hydrotreating conditions to provide a hydrodeoxygenated intermediate product, separating said hydrodeoxygenated intermediate product in at least two fractions; a vapor fraction and a liquid fraction, optionally providing an amount of said liquid fraction as said liquid diluent, directing at least an amount of said liquid fraction to contact a material catalytically active in isomerization under isomerization conditions to provide an isomerized intermediate product, fractionating said isomerized intermediate product to provide at least a hydrocarbon suitable for use as jet fuel and a bottom fraction, directing at least an amount of said bottom fraction to contact a material catalytically active in hydrocracking under hydrocracking conditions to provide the hydrocracked intermediate product, with the associated benefit of such a process being well suited for efficiently converting the upperboiling point of a renewable feedstocks to a lower boiling product, such as non-fossil

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kerosene. In addition to said jet fuel, diesel and other hydrocarbons may also be produced.