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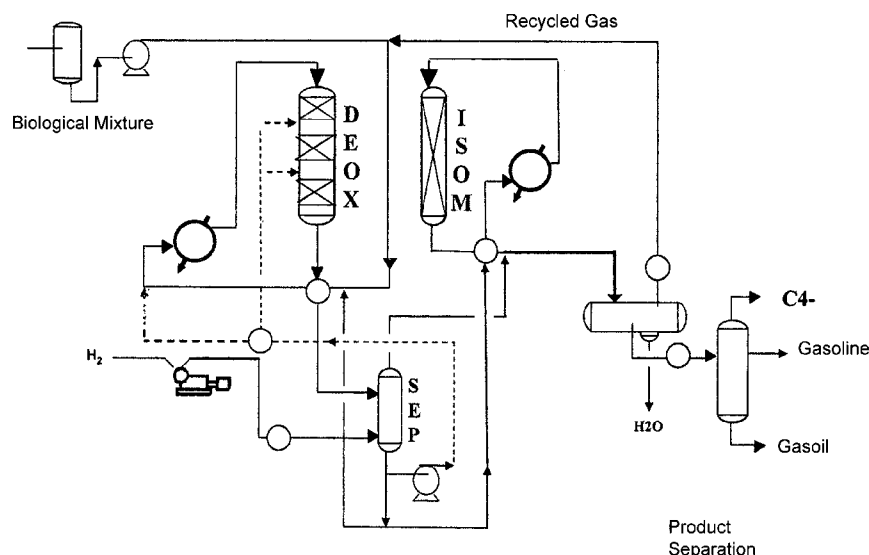
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(54) Title: PROCESS FOR PRODUCING HYDROCARBON FRACTIONS FROM MIXTURES OF A BIOLOGICAL ORIGIN



(57) Abstract: A process is described for producing hydrocarbon fractions which can be used as diesel fuel or as components of diesel fuel, starting from a mixture of a biological origin containing esters of fatty acids possibly with amounts of free fatty acids, which comprises the following steps: 1) hydrodeoxygenation of the mixture of a biological origin; 2) hydroisomerization of the mixture resulting from step (1), after possible purification treatment, said hydroisomerization being effected in the presence of a catalytic system which comprises: a) a carrier of acid nature comprising a completely amorphous micro-mesoporous silico-alumina having a $\text{SiO}_2/\text{Al}_2\text{O}_3$ molar ratio ranging from 30 to 500, a surface area greater than $500 \text{ m}^2/\text{g}$, a pore volume ranging from 0.3 to 1.3 ml/g , an average pore diameter lower than $40 \text{ \AA}$, b) a metallic component containing one or more metals of group VIII, possibly mixed with one or more metals of group VIB.

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