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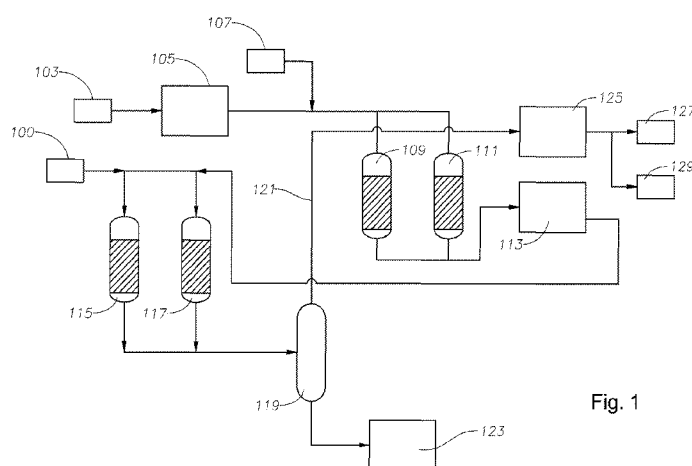
(54) Title: METHOD OF ISOLATING LINEAR BUTENES FROM A MIXED HYDROCARBON FEED INCLUDING AN
ISOBUTENE OLIGOMERISATION STEP

Fig. 1

(57) Abstract: Described is an apparatus for, and a method of, recovering linear butenes from a mixed feed comprising providing a first mixed feed comprising linear butenes and isobutene; contacting the first mixed feed with an oligomerization catalyst such as an MWW family zeolite in a first oligomerization reactor to produce a second mixed feed comprising the linear butenes, C₈ olefins and higher oligomers, and a reduced amount of isobutene relative to the first mixed feed; and separating the second mixed feed to produce a first effluent of first purified linear butenes, and a second effluent of C₈ olefins and higher oligomers. The oligomerization reactor may be a converted isobutene-to-methyl-t-butylether reactor.



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