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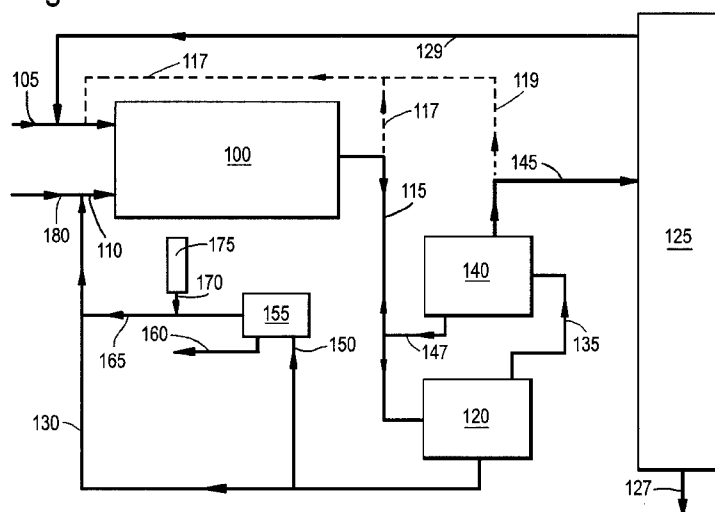
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- (54) **Title:** PROCESS FOR PREPARING AN ALKYLATE

Fig.1



- (57) **Abstract:** The present invention provides process for preparing an alkylate comprising contacting in a reactor a hydrocarbon mixture comprising at least an isoparaffin and an olefin with an acidic ionic liquid catalyst under alkylation conditions to obtain an alkylate, which process further comprises: - withdrawing an alkylate-comprising reactor effluent from the reactor, wherein the reactor effluent comprises an ionic liquid phase and a hydrocarbon phase; - separating at least part the reactor effluent into an ionic liquid phase effluent and a multiple-phase effluent in a first separation unit; - separating at least part of the multiple-phase effluent into a hydrocarbon phase effluent and another effluent in a second separation unit; and recycling at least part of the ionic liquid phase effluent to the reactor.



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