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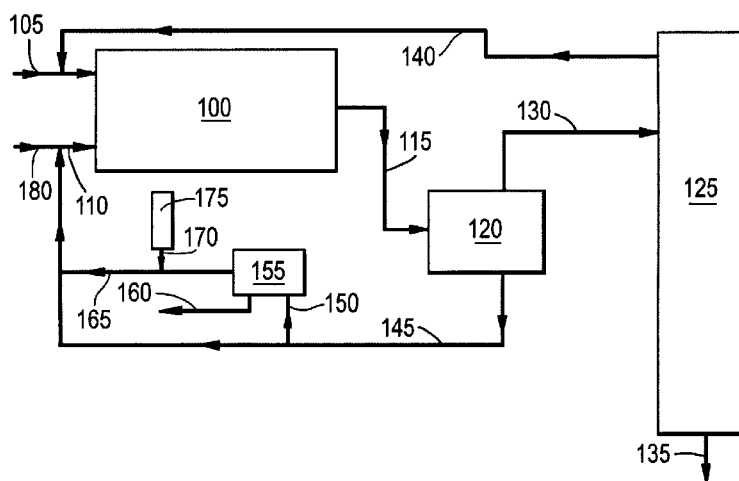
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(54) Title: PROCESS FOR PREPARING AN ALKYLATE

Fig.1



(57) Abstract: The present invention provides process for preparing an alkylate comprising contacting in a reaction zone a hydrocarbon mixture comprising at least an isoparaffin and an olefin with an acidic ionic liquid catalyst under alkylation conditions to obtain an alkylate-comprising effluent, in which process: - solids are formed in the reaction zone; - a solids-comprising effluent comprising hydrocarbons and acidic ionic liquid is withdrawn from the reaction zone; and - at least part of the solids-comprising effluent is treated to remove at least part of the solids to obtain a solids-depleted effluent. The invention further provides a process for treating an acidic ionic liquid comprising at least 0.1wt% of solids based on the total weight of the acidic ionic liquid, wherein at least part of the solids are removed.



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