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(54) Title: IONIC LIQUID CATALYST ALKYLATION USING SPLIT REACTANT STREAMS

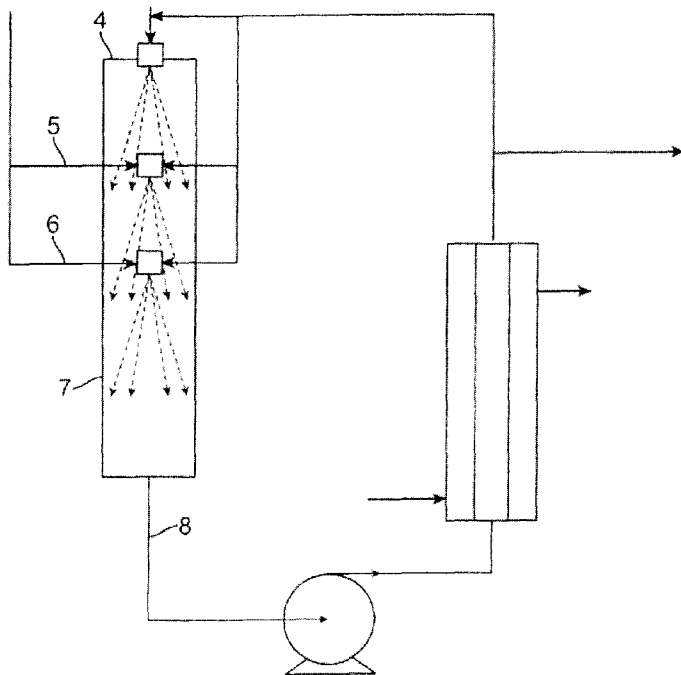


FIG. 1

(57) Abstract: Provided is a process for producing low volatility, high quality gasoline blending components from a number of isoparaffin feed streams, olefin feed streams, and ionic liquid catalyst streams. The process entails providing an iso paraffin feed stream comprising iso paraffins, an olefin feed stream comprising olefins, and a catalyst stream comprising ionic liquid catalyst, and subsequently splitting at least the reactive olefin feed stream for feeding into the reaction zone at different locations.

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