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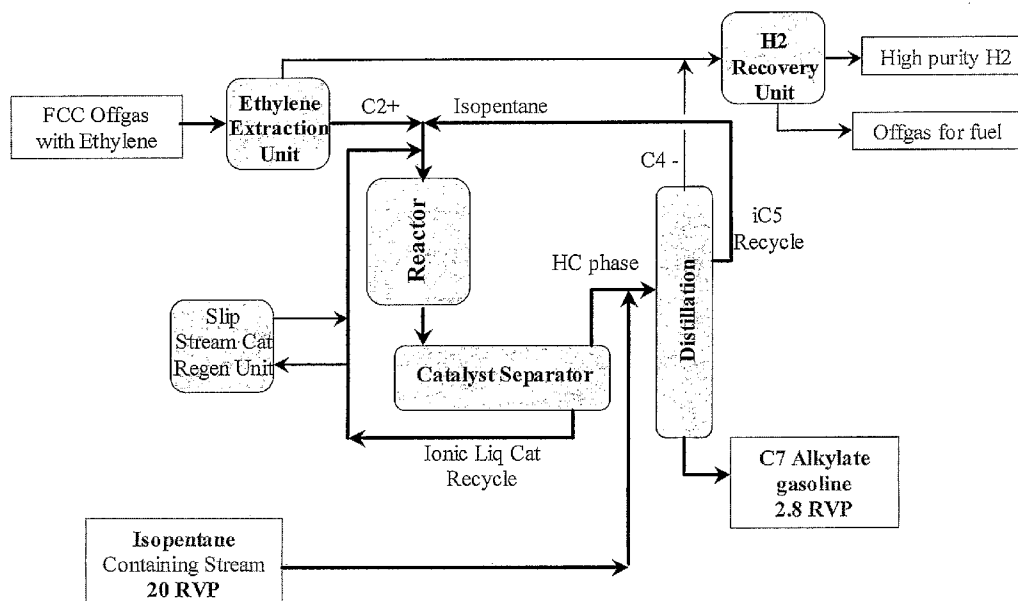
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(54) Title: INTEGRATED ALKYLATION PROCESS USING IONIC LIQUID CATALYSTS

Isopentane and Ethylene Alkylation Process Scheme



(57) Abstract: An integrated refining process for the production of high quality gasoline blending components from low value components is disclosed. In addition there is disclosed a method of improving the operating efficiency of a refinery by reducing fuel gas production and simultaneously producing high quality gasoline blending components of low volatility. The processes involve the alkylation of a refinery stream containing pentane with ethylene using an ionic liquid catalyst.

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