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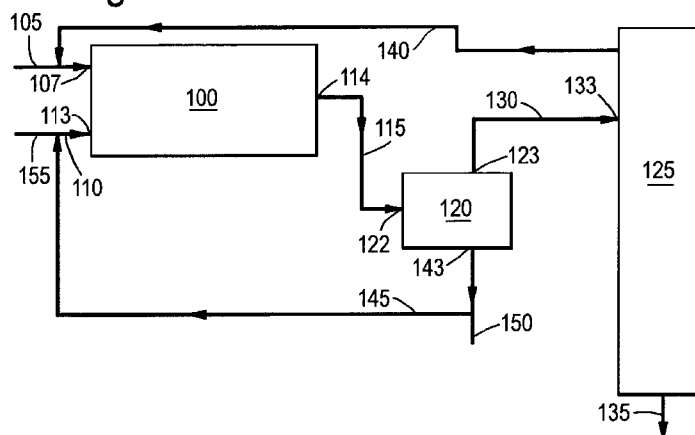
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(54) Title: METHOD FOR REVAMPING AN HF OR SULPHURIC ACID ALKYLATION UNIT AND METHOD FOR THE PRODUCTION OF ALKYLATE

Fig.1



(57) Abstract: The present invention provides a method for revamping an HF or sulphuric acid alkylation unit to an ionic liquid alkylation unit, wherein the HF or sulphuric acid alkylation unit comprise at least: -a reactor unit for contacting catalyst and hydrocarbon reactants; -a separator unit for separating a reactor effluent into a catalyst phase and an alkylate-comprising hydrocarbon phase; -a fractionator unit for fractionating the alkylate- comprising hydrocarbon phase into at least one stream comprising alkylate; -a catalyst phase recycle means to recycle at least part of the catalyst phase from the separator unit to the reactor unit; which method includes: -adapting the catalyst phase recycle means by providing a means for acid injection and/or a means for haloalkane injection into the catalyst recycle means. The invention further provides a method for the production of alkylate.



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