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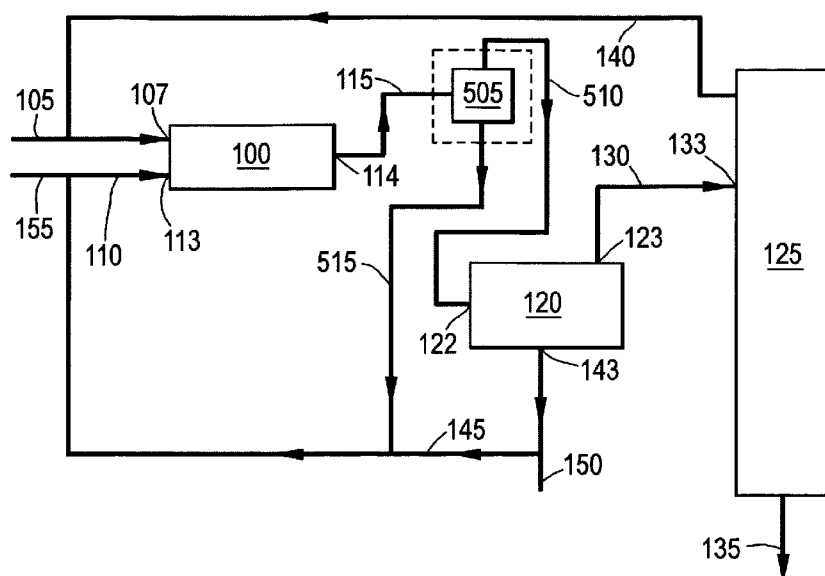
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(54) **Title:** METHOD FOR REVAMPING AN HF OR SULPHURIC ACID ALKYLATION UNIT

Fig.2A



(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; and which method includes: -providing one or more cyclone units downstream of the reactor unit to separate at least part of the reactor effluent in a catalyst phase and an alkylate-comprising hydrocarbon phase.



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