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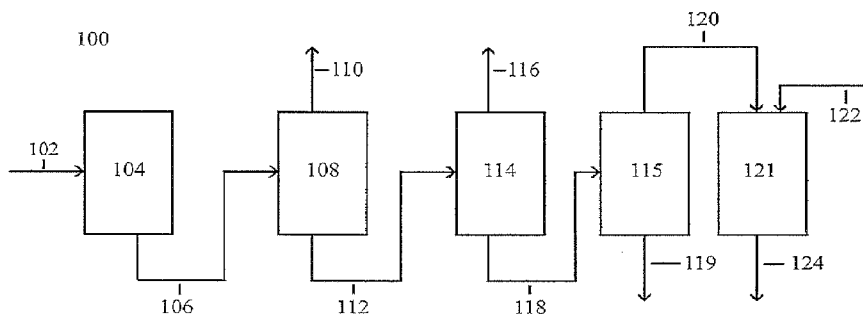
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(54) Title: PROCESS FOR ETHYLBENZENE PRODUCTION

FIG 1



(57) Abstract: A method of producing an alkylaromatic by the alkylation of an aromatic with an alkylating agent, such as producing ethylbenzene by an alkylation reaction of benzene, is disclosed. The method includes using an H-beta catalyst in a preliminary alkylation reactor that is located upstream of the primary alkylation reactor. The H-beta catalyst used in a preliminary alkylation reactor can be regenerated and the regenerated H-beta zeolite catalyst can have a deactivation rate that is no more than 120% of the deactivation rate of a fresh H-beta zeolite catalyst,