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(54) Title: PRODUCTION OF HIGH PURITY ETHYLBENZENE FROM NON-EXTRACTED FEED AND NON-EXTRACTED REFORMATE USEFUL THEREIN

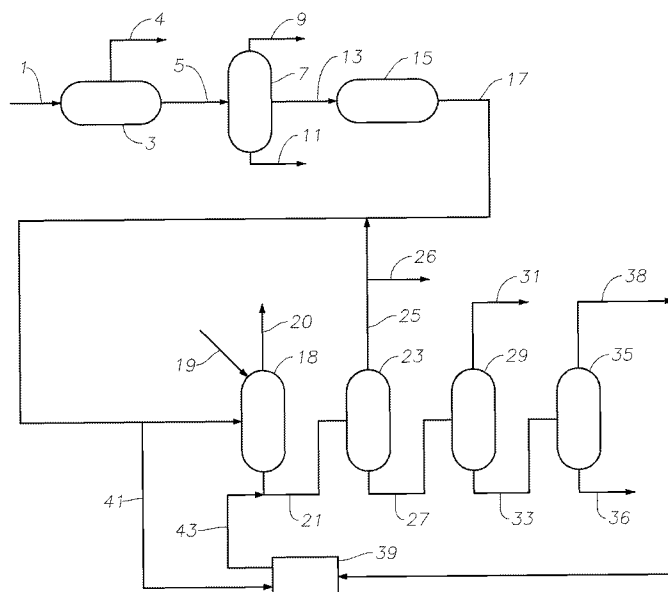


Fig. 1

(S7) Abstract: A process for producing an ethylbenzene product having a purity of at least 99.50 percent based on the weight of ethylbenzene present in the product by the ethylation of the benzene present in non-extracted feed, e.g., non-extracted hydrocarbon composition. The non-extracted feed is substantially free of both C_4- hydrocarbons and the C_7+ aromatic hydrocarbons and contains benzene and benzene coboilers. The process is carried out in the liquid phase, in the presence of an acid-active catalyst containing MCM-22 family molecular sieve, and under specified conditions.