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(54) Title: PRODUCTION OF HIGH PURITY CUMENE FROM NON-EXTRACTED FEED AND HYDROCARBON COMPOSITION USEFUL THEREIN

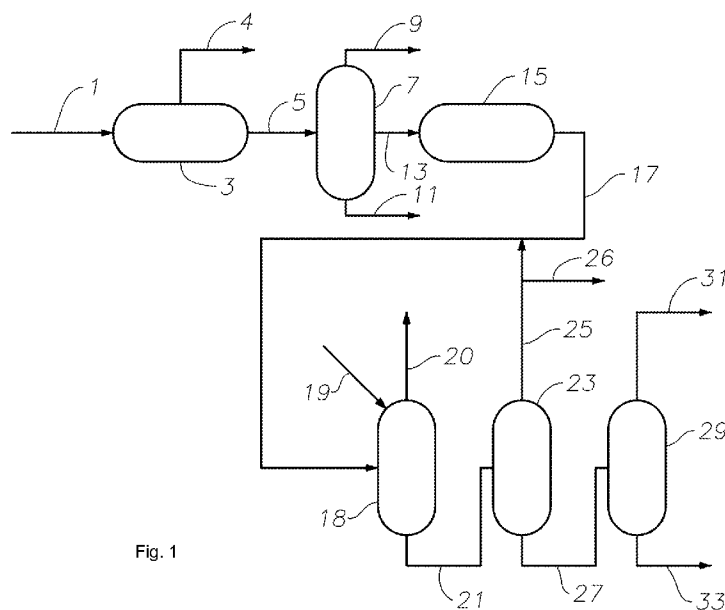


Fig. 1

(57) Abstract: A process for producing an cumene product having a purity of at least 99.50 percent based on the weight of cumene present in the product by the propylation of the benzene present in non-extracted hydrocarbon composition feed, e.g., non-extracted reformat. The non-extracted hydrocarbon composition feed is substantially free of both C₄- hydrocarbons and the C₇+ 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.

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