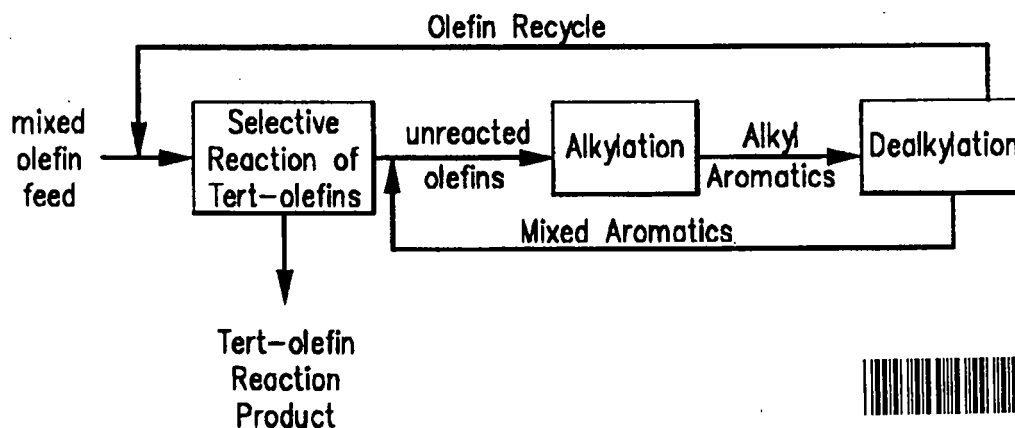




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(54) Title: OLEFIN SKELETAL ISOMERIZATION PROCESS



162162



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(57) Abstract

An isomerization process for C₄ to C₁₅ olefins carried out by the reaction of C₄ to C₁₅ olefins, having a first skeletal distribution, with aromatic compounds under alkylation conditions to produce an alkylated aromatic product, dealkylation of the alkylated aromatic product under dealkylation conditions to produce a dealkylated product comprising said aromatic compounds and olefins corresponding to the olefins in the alkylation and having a second skeletal distribution different than said first skeletal distribution. Acidic catalysts such as molecular sieves are used in both alkylation and dealkylation. The reactions may be carried out in either straight pass fixed beds or in catalytic distillation reactors.

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