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(54) Title: BIMETALLIC ALKYLATION CATALYSTS

(57) Abstract: Solid acid catalysts for use in alkylation processes are described. The solid acid catalysts include a multimetallic (e.g. bimetallic, trimetallic or tetrametallic) component that performs a hydrogenating function for the reactivation (or regeneration) of the catalyst in the presence of hydrogen. The multimetallic catalyst includes a noble metal such as platinum or palladium. The invention also relates to alkylation processes using the multimetallic solid acid catalysts having a multimetallic component for hydrogenation.

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