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(54) Title: NOVEL ALKYLATION CATALYST AND ITS USE IN ALKYLATION

(57) Abstract: The invention pertains to a catalyst comprising catalyst particles comprising a hydrogenation function and a solid acid, wherein the ratio between (i) the volume in catalyst pores with a diameter of 40 - 8000 nm and (ii) the specific length of the catalyst particles is in the range of 0.01 - 0.90 ml/(*mm) and wherein the catalyst has a total pore volume of at least 0.20 ml/g. The invention further pertains to the use of this catalyst in the alkylation of hydrocarbons. In the examples Pt/USY is used as catalyst.