

Title (en)
DEHYDROCYCLIZATION PROCESS WITH DOWNSTREAM DIMETHYLBUTANE REMOVAL

Title (de)
DEHYDROCYKLISIERUNGSVERFAHREN MIT ABWÄRTS STRÖMENDER ENTFERNUNG VON DIMETHYLBUTAN

Title (fr)
PROCEDE DE DESHYDROCYCLISATION AVEC ELIMINATION DE DIMETHYLBUTANE EN AVAL

Publication
EP 1144550 B1 20070314 (EN)

Application
EP 98962992 A 19981209

Priority
US 9826134 W 19981209

Abstract (en)
[origin: WO0034417A1] In the present invention, dimethylbutanes are removed from the raffinate component of the feed to a dehydrocyclization process. Thus, according to a preferred embodiment, a process is provided for producing aromatics by the following steps: (a) contacting fresh paraffins rich feed hydrocarbons, containing 0.1 to 20.0 wt.% dimethylbutanes with a highly selective dehydrocyclization catalyst in a reaction zone, under dehydrocyclization reaction conditions, to convert paraffins to aromatics and obtain an aromatics rich effluent; (b) separating aromatics from the effluent to obtain an aromatics lean raffinate; (c) removing dimethylbutanes from the raffinate to obtain a raffinate of reduced dimethylbutane content; and (d) recycling the raffinate of reduced dimethylbutane content to the reaction zone. Preferably, the dehydrocyclization catalyst used is a nonacidic, monofunctional catalyst. Platinum on L zeolite is a particularly preferred highly selective dehydrocyclization catalyst for use in the process.

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Cited by
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