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(54) Title: PROCESSES AND APPARATUSES FOR TOLUENE AND BENZENE METHYLATION IN AN AROMATICS COMPLEX

(57) Abstract: This present disclosure relates to processes and apparatuses for toluene and benzene methylation in an aromatics complex for producing paraxylene. More specifically, the present disclosure relates to processes and apparatuses for toluene and benzene methylation within an aromatics complex for producing paraxylene wherein an embodiment uses a reactor having a refractory comprising a low iron content refractory.