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(54) Title: PROCESS AND INSTALLATION FOR THE CONVERSION OF CRUDE OIL TO PETROCHEMICALS HAVING AN IMPROVED BTX YIELD

(57) Abstract: The present invention relates to an integrated process to convert crude oil into petrochemical products comprising crude oil distillation, reforming, dearomatization, fluid catalytic cracking and aromatic ring opening, which process comprises: subjecting crude oil to crude oil distillation to produce naphtha and one or more of kerosene and gasoil; subjecting naphtha to reforming to produce reformer gasoline; subjecting kerosene and/or gasoil to dearomatization to produce a first stream enriched for alkanes and naphthenes and a second stream enriched for aromatics; subjecting the stream enriched for alkanes and naphthenes to pyrolysis to produce a pyrolysis gasoline or to fluid catalytic cracking to produce a FCC gasoline; subjecting the stream enriched for aromatics to aromatic ring opening to produce a ARO gasoline; and subjecting one or more of reformer gasoline, FCC gasoline and ARO gasoline to gasoline treatment to produce BTX. Furthermore, the present invention relates to a process installation to convert crude oil into petrochemical products using the process of the present invention. The process and the process installation of the present invention have an increased production of petrochemicals at the expense of the production of fuels and an improved BTX yield.

