

Title (en)

FLUID CATALYTIC CRACKING PROCESS FOR CONVERTING A PLURALITY OF FEEDS

Title (de)

FLUIDKATALYTISCHES KRACKVERFAHREN FÜR DIE UMSETZUNG VON MEHREREN EINSÄTZEN

Title (fr)

PROCEDE DE CRAQUAGE CATALYTIQUE FLUIDE PERMETTANT DE TRANSFORMER PLUSIEURS CHARGES D'ALIMENTATION

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Application

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Abstract (en)

[origin: WO9955801A1] The invention is directed to a Fluid Catalytic Cracking process conducted in a fluid catalytic cracking unit (FCCU) comprising one or more risers, each of said risers having a plurality of injection nozzles therein and at least one reaction zone therein comprising the steps of spatially nonuniformly injecting a plurality of feeds wherein said plurality of feeds comprises at least one feed (alpha) and at least another feed (beta), wherein said feeds (alpha) and (beta): (a) differ in Conradson Carbon Residue by at least about 2 wt.% points or (b) differ in hydrogen content by at least about 0.2 wt.%; or (c) differ in API gravities by at least about 2 points; or (d) differ in nitrogen content by at least about 50 ppm; or (e) differ in carbon-to-hydrogen ratio by at least about 0.3; or (f) differ in mean boiling point by at least about 200 DEG F; and wherein said spatially nonuniform injection is accomplished by (i) simultaneously injecting into a single reaction zone of a single riser said feed (alpha) from at least one injection nozzle of said riser and said feed (beta) from the remaining nozzles of said riser; (ii) simultaneously injecting said feed (alpha) into at least one of said reaction zones of said riser of said FCCU and said feed (beta) into another of said reaction zones of said riser of said FCCU; or (iii) simultaneously injecting said feed (alpha) into at least one riser of said FCCU and said feed (beta) into a second riser of said FCCU. Wherein when said spatially nonuniform injection is accomplished by (iii), said feeds are substantially non-paraffinic feeds.

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