Title (en)

Gasoline octane enhancement in fluid catalytic cracking process with split feed injection to riser reactor.

Title (de)

Gasolin-Oktanzahl-Steigerung in einem katalytischen Flüssigcrackprozess mit Split-Einspeisung des Rohmaterials in einen Steigrohrreaktor.

Title (fr)

Augmentation de l'indice d'octane d'essence dans un procédé de craquage fluide catalytique avec injection divisée de matière première dans un réacteur à tuyau montant.

Publication

EP 0232587 A1 19870819 (EN)

Application

EP 86308420 A 19861029

Priority

US 79271885 A 19851030

Abstract (en)

A fluid catalytic cracking unit equipped with multiple feed injection points along the length of the riser is operated such that portions of the same fresh feed are charged to different feed injection points. Preferably, the hydrocarbon fresh feed can be split into two or more non-distinct fractions, with one fraction charged to the bottom injection point along the length of the riser reactor, and the remaining fractions charged to injection points progressively higher up along the length of the riser reactor. Unconverted slurry oil boiling above 650 DEG F can be recycled to one or more of the various injection points along the length of the riser. Steam in excess of levels typically employed for dispersion is used at the bottom of the riser to help lift the regenerated catalyst. Other inert gases can be used in place of, or in conjunction with, steam to accomplish lifting of the catalyst in the riser.

IPC 1-7

C10G 11/14; C10G 11/20

IPC 8 full level

C10G 11/05 (2006.01); **C10G 11/18** (2006.01)

CPC (source: EP)

C10G 11/18 (2013.01)

Citation (search report)

- US 4218306 A 19800819 - GROSS BENJAMIN [US], et al
- GB 1266068 A 19720308

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

US 8602329 W 19861030; CA 521691 A 19861029; DE 3668904 T 19861029; EP 86308420 A 19861029; JP 50590986 A 19861030