Title (en)

FLUIDIZED CATALYTIC CRACKING WITH REDUCED DILUTE-PHASE TEMPERATURE AND/OR COMPOSITION GRADIENTS IN THE REGENERATOR

Publication

EP 0023402 B1 19840502 (EN)

Application

EP 80302404 A 19800717

Priority

- US 5849079 A 19790718
- US 5849179 A 19790718

Abstract (en)

[origin: EP0023402A1] The spent catalyst from a fluidized catalytic cracker (10) contaminated with coke and volatile hydrocarbons is circulated via a transfer line (22, 24) to a regenerator (26) wherein it is contacted in a dense phase fluidized bed with a regeneration gas (from 36). A minor proportion (e.g. from 2 to 20%) of the regeneration gas is employed to combust volatile hydrocarbons in the vicinity of the region where spent catalyst enters the dense phase bed (30) so that the regeneration in the dense bed is substantially uninfluenced by the presence of volatile hydrocarbons and gradients of temperature and/or composition in the dilute regenerator phase (34) are mitigated or eliminated thereby reducing or eliminating undesirable afterburning in the dilute phase (34). The minor proportion of regeneration gas is passed (from line 40) either into the transfer line (22,24) close to its end within the regenerator (26) or, in another embodiment, directly into a region of the dense bed (30) close to the end of the transfer line.

IPC 1-7

C10G 11/18

IPC 8 full level

C10G 11/18 (2006.01)

CPC (source: EP)

C10G 11/18 (2013.01); **C10G 11/187** (2013.01)

Cited by

FR2627187A1; EP0322276A1; FR2624877A1; US5365006A; US4940802A; FR2515680A1

Designated contracting state (EPC)

BE DE FR GB IT NL

DOCDB simple family (publication)

EP 0023402 A1 19810204; **EP 0023402 B1 19840502**; CA 1157796 A 19831129; DE 3067687 D1 19840607; ES 493507 A0 19810516; ES 8105025 A1 19810516

DOCDB simple family (application)

EP 80302404 A 19800717; CA 356570 A 19800718; DE 3067687 T 19800717; ES 493507 A 19800718