

Title (en)

METHOD AND DEVICE FOR CATALYTIC CRACKING COMPRISING REACTORS WITH DESCENDING AND ASCENDING FLOWS

Title (de)

VERFAHREN UND EINRICHTUNG ZUM KATALYTISCHEN CRACKEN MIT ABWÄRTS- UND AUFWÄRTSSTRÖMENDEN REAKTOREN

Title (fr)

PROCEDE ET DISPOSITIF DE CRAQUAGE CATALYTIQUE COMPRENANT DES REACTEURS A ECOULEMENTS DESCENDANT ET ASCENDANT

Publication

EP 1131389 A1 20010912 (FR)

Application

EP 99972244 A 19991112

Priority

- FR 9902801 W 19991112
- FR 9814319 A 19981113

Abstract (en)

[origin: US6641715B1] An entrained bed or fluidised bed process for catalytic cracking of a hydrocarbon feed in two reaction zones is described, one zone (1) being in catalyst dropper mode, the other (2) being in catalyst riser mode. A feed (102) and catalyst from at least one regeneration zone (302) are introduced into the upper portion of the dropper zone, the feed and catalyst are circulated in accordance with a catalyst to feed weight ratio, C/O, of 5 to 20, the cracked gases are separated from the coked catalyst in a first separation zone (105), the cracked gases are recovered (107), the coked catalyst is introduced (110) into the lower portion of the riser zone (2), the coked catalyst and said feed are circulated in a C/O weight ratio of 4 to 8, the used catalyst is separated from the effluent produced in a second separation zone (203), the catalyst is stripped in a stripping zone (212), the effluent and stripping gases are recovered (206) and the used catalyst is recycled (7) to the regeneration zone.

IPC 1-7

C10G 11/18; **C10G 51/06**

IPC 8 full level

B01J 38/04 (2006.01); **B01J 8/08** (2006.01); **B01J 8/12** (2006.01); **B01J 8/18** (2006.01); **B01J 8/26** (2006.01); **C10G 11/18** (2006.01); **C10G 51/02** (2006.01); **C10G 51/06** (2006.01)

CPC (source: EP KR US)

C10G 11/18 (2013.01 - EP KR US); **C10G 51/06** (2013.01 - EP US)

Citation (search report)

See references of WO 0029508A1

Cited by

WO2024015599A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

US 6641715 B1 20031104; AT E271114 T1 20040715; DE 69918710 D1 20040819; DE 69918710 T2 20041202; EP 1131389 A1 20010912; EP 1131389 B1 20040714; ES 2226502 T3 20050316; FR 2785907 A1 20000519; FR 2785907 B1 20010105; JP 2002530467 A 20020917; KR 100607922 B1 20060804; KR 20010089439 A 20011006; WO 0029508 A1 20000525

DOCDB simple family (application)

US 83165901 A 20010713; AT 99972244 T 19991112; DE 69918710 T 19991112; EP 99972244 A 19991112; ES 99972244 T 19991112; FR 9814319 A 19981113; FR 9902801 W 19991112; JP 2000582495 A 19991112; KR 20017005947 A 20010511