Title (en)

METHOD FOR SELECTIVE COMPONENT CRACKING TO MAXIMIZE PRODUCTION OF LIGHT OLEFINS

Title (de)

VERFAHREN ZUM SELEKTIVEN CRACKEN VON KOMPONENTEN ZUR MAXIMIERUNG DER PRODUKTION VON LEICHTEN OLEFINEN

Title (fr)

PROCEDE DE CRAQUAGE SELECTIF DE COMPOSANTS PERMETTANT D'OPTIMISER LA PRODUCTION D'OLEFINES LEGERES

Publication

EP 1713884 B1 20180926 (EN)

Application

EP 05705923 A 20050119

Priority

- US 2005001724 W 20050119
- US 53890604 P 20040123

Abstract (en)

[origin: US2005161369A1] A process for the fluid catalytic cracking of hydrocarbons includes contacting relatively heavy hydrocarbons with a fluidized particulate catalyst in a reaction zone under catalytic cracking conditions to convert at least some of the heavy hydrocarbons to light olefins having from 3 to 4 carbon atoms, conveying a reaction mixture containing spent catalyst particles and a gaseous stream containing the light olefins and other reaction products to a cyclone separation system directly connected to the reaction zone, at least part of the cyclone separation system being positioned within an interior space enclosed by a vessel, the interior space including a stripping region and an upper region in which the cyclone separation system is positioned. The cyclone separation system includes at least one cyclone connected directly to the reaction zone and having an interior pressure at least 0.05 psig lower than the pressure in the stripping region.

IPC 8 full level

C10G 11/18 (2006.01)

CPC (source: EP KR US)

C10G 11/00 (2013.01 - KR); **C10G 11/18** (2013.01 - EP KR US)

Citation (examination)

- US 4422925 A 19831227 - WILLIAMS DALE [US], et al
- US 5506365 A 19960409 - MAULEON JEAN-LOUIS [FR], et al
- US 4968406 A 19901106 - MIZRAHI SADI [US], et al

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

US 2005161369 A1 20050728; AU 2005207859 A1 20050811; AU 2005207859 B2 20100107; BR PI0506971 A 20070703; BR PI0506971 B1 20201208; CA 2553783 A1 20050811; CA 2553783 C 20130326; CN 1910264 A 20070207; EP 1713884 A1 20061025; EP 1713884 B1 20180926; JP 2007518866 A 20070712; KR 100985288 B1 20101004; KR 20070018836 A 20070214; MX PA06008184 A 20070126; NO 20063753 L 20060822; NO 337658 B1 20160530; WO 2005073347 A1 20050811; ZA 200606044 B 20071227

DOCDB simple family (application)

US 3912505 A 20050118; AU 2005207859 A 20050119; BR PI0506971 A 20050119; CA 2553783 A 20050119; CN 200580003016 A 20050119; EP 05705923 A 20050119; JP 2006551243 A 20050119; KR 20067014571 A 20050119; MX PA06008184 A 20050119; NO 20063753 A 20060822; US 2005001724 W 20050119; ZA 200606044 A 20060721