

Title (en)

PROCESS FOR SELECTIVELY PRODUCING C3 OLEFINS IN A FLUID CATALYTIC CRACKING PROCESS

Title (de)

VERFAHREN ZUR SELEKTIVEN PRODUKTION VON C3-OLEFINEN IN EINEM FLÜSSIG-KATALYTISCHEN CRACKPROZESS

Title (fr)

PROCEDE POUR LA PRODUCTION SELECTIVE D'OLEFINES C 3? SELON UN PROCEDE DE CRAQUAGE CATALYTIQUE FLUIDE

Publication

EP 1289887 A1 20030312 (EN)

Application

EP 01939096 A 20010519

Priority

- US 0116036 W 20010519
- US 57426200 A 20000519

Abstract (en)

[origin: WO0226628A1] A process for producing polymers from olefins selectively produced from a catalytically cracked or thermally cracked naphtha stream is disclosed herein. The naphtha stream is introduced into a process unit comprised of a reaction zone, a stripping zone, a catalyst regeneration zone, and a fractionation zone. The naphtha feedstream is contacted in the reaction zone with a catalyst containing from about 10 to 50 wt.% of a crystalline zeolite having an average pore diameter less than about 0.7 nanometers at reaction conditions which include temperatures ranging from about 500 DEG to 650 DEG C and a hydrocarbon partial pressure from about 10 to 40 psia. Vapor products are collected overhead and the catalyst particles are passed through the stripping zone on the way to the catalyst regeneration zone. Volatiles are stripped with steam in the stripping zone and the catalyst particles are sent to the catalyst regeneration zone where coke is burned from the catalyst, which is then recycled to the reaction zone. Overhead products from the reaction zone are passed to a fractionation zone where a stream of C3 products is recovered and a stream rich in C4 and/or C5 olefins is recycled to the stripping zone. The olefins can be further processed and polymerized to form a variety of polymer materials.

IPC 1-7

C01G 1/00

IPC 8 full level

C07B 61/00 (2006.01); **C07C 4/06** (2006.01); **C07C 11/06** (2006.01); **C08F 10/00** (2006.01); **C08F 10/06** (2006.01); **C10G 11/05** (2006.01); **C10G 11/18** (2006.01); **C10G 51/02** (2006.01); **C10G 51/04** (2006.01); **C08F 110/06** (2006.01); **C08F 210/06** (2006.01)

CPC (source: EP)

C08F 10/00 (2013.01); **C08F 110/06** (2013.01); **C08F 210/06** (2013.01); **C10G 2400/20** (2013.01); **Y02P 20/584** (2015.11)

Citation (search report)

See references of WO 0226628A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 0226628 A1 20020404; CA 2388605 A1 20020404; CN 1383448 A 20021204; EP 1289887 A1 20030312; JP 2004509928 A 20040402; MX PA02000719 A 20040226

DOCDB simple family (application)

US 0116036 W 20010519; CA 2388605 A 20010519; CN 01801862 A 20010519; EP 01939096 A 20010519; JP 2002530418 A 20010519; MX PA02000719 A 20010519