(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
24 January 2002 (24.01.2002)

PCT

(10) International Publication Number
WO 02/05950 A3

(51) International Patent Classification[7]: B01J 29/06, 29/04, 29/90, C10G 3/00

(21) International Application Number: PCT/US01/20676

(22) International Filing Date: 27 June 2001 (27.06.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/617,714 17 July 2000 (17.07.2000) US

(71) Applicant: EXXONMOBIL CHEMICAL PATENTS INC. [US/US]; 5200 Bayway Drive, Baytown, TX 77520 (US).

(72) Inventors: VAUGHN, Stephen, N.; 1111 Southern Hills, Kingwood, TX 77339 (US). MARTENS, Luc, R., M.; Prinsenbeemdlaan 3, B-1860 Meise (BE). KUECHLER, Keith, H.; 912 Applewood Drive, Friendswood, TX 77546 (US). SCHWEIZER, Albert, E.; 2069 W. Magna Carta, Baton Rouge, LA 70815 (US).

(74) Agent: SHER, Jaimes; ExxonMobil Chemical Company, Law Technology, P.O. Box 2149, Baytown, TX 77522-2149 (US).

(81) Designated States *(national)*: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

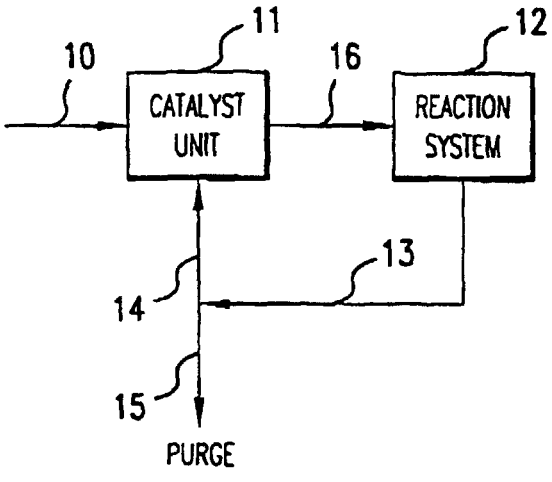
(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:
11 April 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SYNTHESIS OF MOLECULAR SIEVE CATALYSTS



(57) Abstract: Disclosed is a molecular sieve catalyst which contains molecular sieve-containing attrition particles and virgin molecular sieve, the attribution particles having been recycled from a catalyst manufacture process or from a reaction system. The catalyst can be used in a variety of catalytic reaction processes. A desired process is making olefins from an oxygenate feedstock. The recovery and use of the attrition particles in the catalyst is beneficial in minimizing waste, thereby reducing problems relating to both environmetal and economic constraints.

WO 02/05950 A3