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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
30 August 2001 (30.08.2001)

PCT

(10) International Publication Number
WO 01/62382 A2

(51) International Patent Classification[7]: B01J 29/00

(21) International Application Number: PCT/US01/06011

(22) International Filing Date: 23 February 2001 (23.02.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/511,943 24 February 2000 (24.02.2000) US
09/615,545 13 July 2000 (13.07.2000) US

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

(72) Inventors: XU, Teng; 13422 Scenic Glade Drive, Houston, TX 77059 (US). WHITE, Jeffrey, L.; 1239 E. Spring Hill Court, Cary, NC 27511 (US).

(74) Agents: KELLER, Bradley, A.; ExxonMobil Chemical Company, P.O. Box 2149, Baytown, TX 77522-2149 et al. (US).

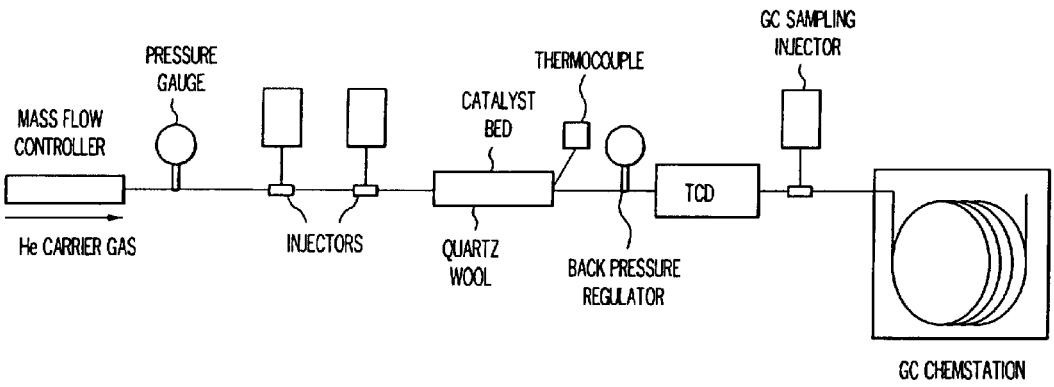
(81) Designated States *(national)*: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, 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:
— *without international search report and to be republished upon receipt of that report*

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: CATALYST PRETREATMENT IN AN OXYGENATE TO OLEFINS REACTION SYSTEM



(57) Abstract: Disclosed is a crystalline silicoaluminophosphate molecular sieve comprising a porous framework structure and at least one single ring aromatic compound within the porous framework structure. The silicoaluminophosphate molecular sieve is used to convert oxygenate feedstock to olefin product. The olefin product is high in ethylene and propylene content, with a high selectivity to ethylene. The silicoaluminophosphate molecular sieve can be included with a binder and other materials in finished catalyst form.

WO 01/62382 A2