



(51) International Patent Classification:

C01B 37/02 (2006.01) *C01B 39/48* (2006.01)
C01B 39/08 (2006.01) *C01B 37/00* (2006.01)

(21) International Application Number:

PCT/US2012/071819

(22) International Filing Date:

27 December 2012 (27.12.2012)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/601,187 21 February 2012 (21.02.2012) US
 12164538.6 18 April 2012 (18.04.2012) EP

(71) Applicant: **EXXONMOBIL CHEMICAL PATENTS INC.** [US/US]; 5200 Bayway Drive, Baytown, TX 77520 (US).(72) Inventors: **WESTON, Simon, C.**; 3 Spring Brook Drive, Annandale, NJ 08801 (US). **STROHMAIER, Karl, G.**; 47 Rockport Road, Port Murray, NJ 07865 (US). **VRO-MAN, Hilda, B.**; 32 Madison Avenue, Piscataway, NJ 08854 (US).(74) Agents: **TYUS, Darryl, M.** et al.; Exxonmobil Chemical Company, P.O. Box 2149, Baytown, TX 77522-2149 (US).

(81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) **Designated States** (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

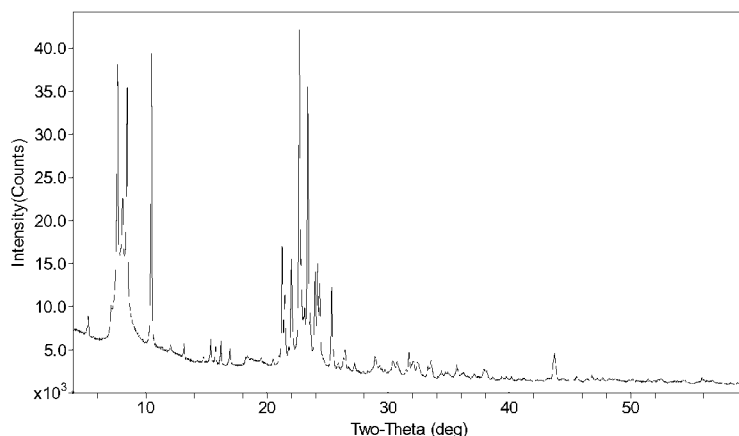
Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

[Continued on next page]

(54) Title: MOLECULAR SIEVE MATERIAL, ITS SYNTHESIS AND USE

Figure 1



(57) **Abstract:** A molecular sieve material, EMM- 17, has in its as-calcined form an X-ray diffraction pattern including the following peaks in Table 11 :

WO 2013/126140 A1



Published:

— *with international search report (Art. 21(3))*