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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
21 December 2007 (21.12.2007)

PCT

(10) International Publication Number
WO 2007/145676 A1

(51) International Patent Classification:
B01J 21/08 (2006.01)

(21) International Application Number:
PCT/US2007/000999

(22) International Filing Date: 12 January 2007 (12.01.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/813,296	13 June 2006 (13.06.2006)	US
60/759,433	17 January 2006 (17.01.2006)	US

(71) Applicant *(for all designated States except US)*: **EXXONMOBIL RESEARCH AND ENGINEERING COMPANY** [US/US]; 1545 Route 22 East, P.o. Box 900, Annandale, NJ 08801-0900 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **BEECKMAN, Jean, W.** [US/BE]; 5431 The Bridle Path, Columbia, MD 21044 (US). **WU, Jason** [US/US]; 25 Haver Farm Road, Clinton, NJ 08809 (US). **DATZ, Theodore, E.** [US/US]; 4031 Towpath Circle West, Easton, PA 18045 (US). **DEHAAS, Ralph** [US/US]; 688 Brenton Court, Easton, PA 18040 (US).

(74) Agents: **BAKUN, Estelle, C.** et al.; Exxonmobil Research And Engineering Company, 1545 Route 22 East, P.o. Box 900, Annandale, NJ 08801-0900 (US).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, 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, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *with international search 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.

WO 2007/145676 A1

(54) Title: METHOD FOR MAKING SILICA SHAPED BODIES

(57) Abstract: This invention relates to a method for making shaped bodies having a silica content of at least 85 wt%, to shaped bodies made by such method, to catalyst compositions comprising shaped bodies made by such methods and to catalytic conversion processes using catalyst compositions comprising shaped bodies made by such methods. The method of making the shaped bodies comprises the steps of a) forming shaped bodies from a mixture obtained from at least one amorphous silica powder, at least one silica sol having a pH below 7, and at least one polymeric organic extrusion aid, optionally supplemental liquid medium and optionally crystallites of a zeolite or zeolite-type material; b) drying the shaped bodies obtained in step a); and c) heating the shaped bodies to a temperature ranging from about 500 °C to about 800 °C.