



(51) International Patent Classification:

B01J 29/04 (2006.01) *B01J 35/10* (2006.01)
B01J 21/04 (2006.01) *C07C 2/66* (2006.01)
B01J 37/04 (2006.01) *C07C 15/073* (2006.01)
B01J 37/08 (2006.01)

(21) International Application Number:

PCT/US2013/035556

(22) International Filing Date:

8 April 2013 (08.04.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

13/450,296 18 April 2012 (18.04.2012) US

(71) Applicant: UOP LLC [US/US]; 25 East Algonquin Road, P. O. Box 5017, Des Plaines, Illinois 60017-5017 (US).

(72) Inventor: JAN, Deng-Yang; UOP LLC, 25 East Algonquin Road, P. O. Box 5017, Des Plaines, Illinois 60017-5017 (US).

(74) Agent: WILLIS, Mark R.; UOP LLC, 25 East Algonquin Road, P. O. Box 5017, Des Plaines, Illinois 60017-5017 (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).

Published:

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

[Continued on next page]

(54) Title: METHODS FOR PRODUCING ZEOLITE CATALYSTS

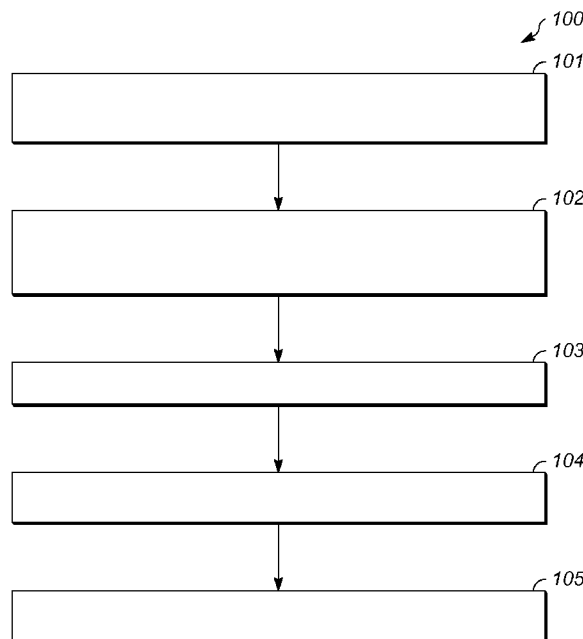


FIG. 1

(57) Abstract: A method for producing a zeolite catalyst includes mixing a zeolite material with a filler material comprising transition phase and alpha alumina, a porosity enhancing agent, and water to produce a paste; mulling the paste; extruding the paste to produce a shaped extrudate; and drying and calcining the shaped extrudate to produce a zeolite catalyst, wherein the zeolite catalyst has a total porosity greater than 0.60ml/gm and greater than 15% of a total pore volume of pores in the range from 550Å to 31,000Å.



-
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*