

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
19 June 2008 (19.06.2008)

PCT

(10) International Publication Number
WO 2008/073237 A2

(51) International Patent Classification: **Not classified**

(21) International Application Number:
PCT/US2007/024779

(22) International Filing Date:
4 December 2007 (04.12.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/873,380 7 December 2006 (07.12.2006) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, 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, 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.

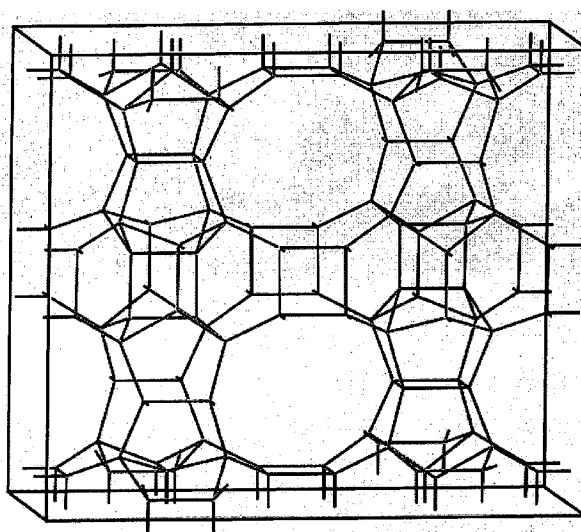
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, 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:

— without international search report and to be republished upon receipt of that report

(54) Title: ITQ-34, A NEW CRYSTALLINE MICROPOROUS MATERIAL

Framework structure of ITQ-34 showing only the tetrahedral atoms. There is a single unit cell, whose edges are defined by the box.



(57) Abstract: ITQ-34 (INSTITUTO DE TECNOLOGIA QUIMICA number 34) is a new crystalline microporous material with a framework of tetrahedral atoms connected by atoms capable of bridging the tetrahedral atoms, the tetrahedral atom framework being defined by the interconnections between the tetrahedrally coordinated atoms in its framework. ITQ-34 can be prepared in silicate compositions with an organic structure directing agent. It has a unique X-ray diffraction pattern, which identifies it as a new material. ITQ-34 is stable to calcination in air, absorbs hydrocarbons, and is catalytically active for hydrocarbon conversion.

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