

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

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
29 September 2022 (29.09.2022)



(10) International Publication Number
WO 2022/204346 A1

(51) International Patent Classification:

B01J 29/74 (2006.01) **C01B 39/48** (2006.01)

(21) International Application Number:

PCT/US2022/021642

(22) International Filing Date:

24 March 2022 (24.03.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

17/214,782 26 March 2021 (26.03.2021) US

(71) Applicant: **CHEVRON U.S.A. INC.** [US/US]; 6001 Bollinger Canyon Road, P.O. Box 6006, San Ramon, California 94583-0806 (US).

(72) Inventors: **OJO, Adeola Florence**; c/o Chevron Corp., P.O. Box 6006, San Ramon, California 94583-0806 (US). **ZHANG, Yihua**; c/o Chevron Corp., P.O. Box 6006, San Ramon, California 94583-0806 (US). **LEI, Guan-Dao**; c/o Chevron Corporation, P.O. Box 6006, San Ramon, California 94583-0806 (US). **LACHEEN, Howard S.**; c/o Chevron Corp., P.O. Box 6006, San Ramon, California 94583-0806 (US).

(74) Agent: **WARZEL, Mark** et al.; P.O. Box 6006, San Ramon, California 94583-0806 (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, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, 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, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, 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, ST, 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, KM, ML, MR, NE, SN, TD, TG).

(54) Title: MOLECULAR SIEVE SSZ-92, CATALYST, AND METHODS OF USE THEREOF

(57) Abstract: The present application pertains to family of new crystalline molecular sieves designated SSZ-92. Molecular sieve SSZ-92 is structurally similar to sieves falling within the ZSM-48 family of molecular sieves and is characterized as having magnesium.

WO 2022/204346 A1