

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
01 July 2021 (01.07.2021)



(10) International Publication Number
WO 2021/130686 A1

(51) International Patent Classification:

C07C 1/22 (2006.01) B01J 21/08 (2006.01)
C07C 4/06 (2006.01) B01J 21/16 (2006.01)

(21) International Application Number:

PCT/IB2020/062373

(22) International Filing Date:

23 December 2020 (23.12.2020)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

1901008206 27 December 2019 (27.12.2019) TH

(71) Applicant: **PTT GLOBAL CHEMICAL PUBLIC COMPANY LIMITED** [TH/TH]; 555/1, Energy Complex, Building A, 14-18th Floor, Vibhavadi Rangsit Road, Chatuchak, Bangkok, 10900 (TH).

(72) Inventors: **WATTANAKIT, Chularat**; No. 465 Senavilla 84, Happyland Road, Khlong Chan, Bangkok, 10240 (TH). **RODAUM, Chadatip**; No. 127/2 Khai Lu-

ang Road, Ban Pong, Ratchaburi, 70110 (TH). **THI-VASASITH, Anawat**; No. 314 Moo 6 Rattanapithan Road, Jorthor, Mueang, Nakhon Ratchasima, 30000 (TH). **PENGPANICH, Sitthiphong**; c/o No. 555/1 Energy Complex, Building A, 14th - 18th Floor, Vibhavadi Rangsit Road, Chatuchak, Bangkok, 10900 (TH). **THAVORN-PRASERT, Kaew-arpha**; c/o No. 555/1 Energy Complex, Building A, 14th - 18th Floor, Vibhavadi Rangsit Road, Chatuchak, Bangkok, 10900 (TH).

(74) Agent: **CHANGCHUMNI, Manoon** et al.; c/o Rouse & Co. International (Thailand) Limited, Unit 1401-3 and 1408, Floor 14, Two Pacific Place, 142 Sukhumvit Road, Klongtoey, Bangkok, 10110 (TH).

(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, 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,

(54) Title: A CATALYST FOR PRODUCING LIGHT OLEFINS FROM CATALYTIC CRACKING OF HYDROCARBON HAVING 4 TO 7 CARBON ATOMS

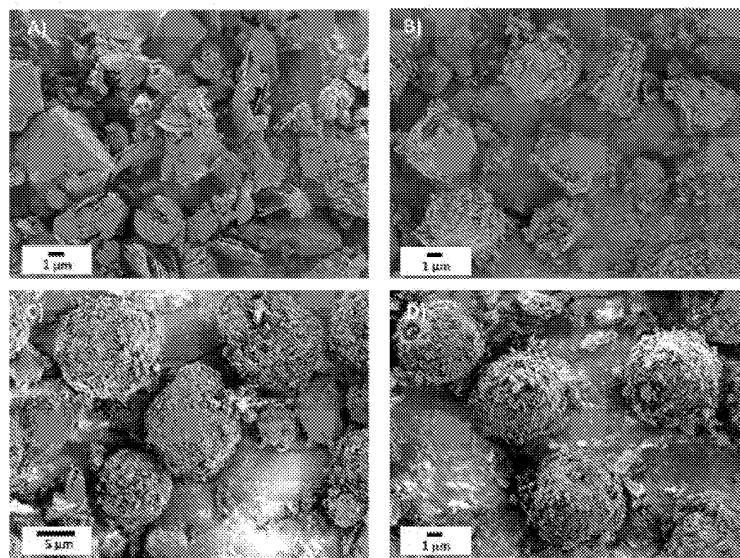


Figure 2

(57) Abstract: The present invention relates to a catalyst for producing light olefins from catalytic cracking of hydrocarbon having 4 to 7 carbon atoms, wherein said catalyst comprises zeolite having the ring arrangement of 8 to 10 silicon atoms and hierarchical zeolite comprising 0.1 to 2 nm of micropore, 2 to 50 nm of mesopore, and greater than 50 nm of macropore, wherein the mesopore and macropore are greater than or equal to 40 % when comparing to total pore volume, and said catalyst comprises element having 2⁺ to 4⁺ oxidation state with 0.1 to 3 % by weight of the catalyst.

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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).

Published:

- *with international search report (Art. 21(3))*
- *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))*
- *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*