

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

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
27 May 2010 (27.05.2010)

(10) International Publication Number
WO 2010/058149 A1

PCT

(51) International Patent Classification:

B01J 29/18 (2006.01) **C07C 67/37** (2006.01)
C07C 51/12 (2006.01)

(21) International Application Number:

PCT/GB2009/002410

(22) International Filing Date:

8 October 2009 (08.10.2009)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

08253763.0 19 November 2008 (19.11.2008) EP

(71) Applicant (for all designated States except US): **BP CHEMICALS LIMITED** [GB/GB]; Chertsey Road, Sunbury on Thames, Middlesex TW16 7BP (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DITZEL, Evert Jan** [NZ/GB]; 46 Boothgate Drive, Howden, Goole, East Yorkshire, DN 14 7EW (GB). **LAW, David John** [GB/GB]; 36 Warwick Drive, Beverley, East Yorkshire HU17 9TB (GB). **SUNLEY, John Glenn** [GB/GB]; 7 Hall Walk, Cottingham, East Yorkshire, HU 16 4RL (GB).

(74) Agent: **BROOKE, Caron**; BP INTERNATIONAL LIMITED, Global Patents & Technology Law (Central), Chertsey Road, Sunbury on Thames, Middlesex, TW16 7LN (GB).

(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, 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, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- of inventorship (Rule 4.17(iv))

Published:

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

(54) Title: CARBONYLATION PROCESS CATALYSED BY MORDENITE SUPPORTED ON INORGANIC OXIDES

(57) Abstract: A process for the preparation of methyl acetate and/or acetic acid by carbonylating dimethyl ether and/or methanol with carbon monoxide in the presence of a catalyst, which catalyst is a H-mordenite bound with a mesoporous binder selected from silicas, aluminas, silica-aluminas, magnesium silicates and magnesium aluminum silicates.



WO 2010/058149 A1