



(43) International Publication Date
29 November 2012 (29.11.2012)

(10) International Publication Number
WO 2012/160570 A2

(51) International Patent Classification:
B01J 23/10 (2006.01)

(21) International Application Number:
PCT/IN2012/000157

(22) International Filing Date:
5 March 2012 (05.03.2012)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
1543/MUM/2011 20 May 2011 (20.05.2011) IN

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(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, 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, MD, 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).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))
- of inventorship (Rule 4.17(iv))

Published:

- without international search report and to be republished upon receipt of that report (Rule 48.2(g))

(54) Title: CATALYSTS FOR PRODUCTION OF COMBUSTIBLE FUEL AND FIXED CARBONS FROM HOMOGENEOUS AND HETEROGENEOUS WASTE

(57) Abstract: Disclosed herein is an external, fixed bed, agglomerated nano catalyst of the general formula; $A_xB_yO_z/Q_n \cdot (OH)_m$ where, 'A' represents transition element 'B' represents rare earth elements including the lanthanide series, and actinide series either alone or mixture thereof in metallic or oxide or as hydroxides; 'Q' represents montmorillonate clay or its derivatives; and optionally along with an organic binder; for conversion of various homogeneous arid heterogeneous waste material into useful hydrocarbon fuel as oil, gas and as solid carbon.



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