

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
28 May 2009 (28.05.2009)

PCT

(10) International Publication Number
WO 2009/067331 A3

(51) International Patent Classification:
B01J 29/90 (2006.01) **B01J 29/00** (2006.01)

(21) International Application Number:
PCT/US2008/082352

(22) International Filing Date:
4 November 2008 (04.11.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/988,653 16 November 2007 (16.11.2007) US

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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, 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, 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, MT, NL, NO, PL, PT, RO, SE, SI, SK, 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))

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
9 July 2009

(54) Title: CATALYST REGENERATION PROCESS

(57) Abstract: This disclosure relates to a process for regenerating a catalyst composition, wherein the catalyst composition comprising a molecular sieve and at least 10 wt.% coke having a C/H ratio in the range of 0.26 to 5, the process comprising (a) contacting the catalyst composition with a first oxidative medium having oxygen and water at first conditions sufficient to form a first regenerated catalyst composition having at least 50 wt.% less coke than the catalyst composition; and then (b) contacting at least a portion of the first regenerated catalyst composition with a second oxidative medium having oxygen, and optionally water, at second conditions sufficient to form a second regenerated catalyst composition having at least 50 wt% less coke than the first regenerated catalyst composition, wherein the catalyst composition in step (a) and the first regenerated catalyst in step (b) have contacted total amount of water in the range of 1 to 50 weight water per weight of the second regenerated catalyst composition.



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