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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
15 September 2005 (15.09.2005)

PCT

(10) International Publication Number
WO 2005/084799 A1

(51) International Patent Classification[7]: B01J 29/08, 23/888, 37/02, 37/00, 35/10

(21) International Application Number: PCT/EP2005/050866

(22) International Filing Date: 1 March 2005 (01.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
04251241.8 3 March 2004 (03.03.2004) EP

(71) Applicant *(for all designated States except US)*: **SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V.** [NL/NL]; Carel van Bylandtlaan 30, NL-2596 HR The Hague (NL).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **CREYGHTON, Edward, Julius** [NL/NL]; Badhuisweg 3, NL-1031 CM Amsterdam (NL). **HUVE, Laurent, Georges** [FR/NL]; Badhuisweg 3, NL-1031 CM Amsterdam (NL). **OUWEHAND, Cornelis** [NL/NL]; Badhuisweg 3, NL-1031 CM Amsterdam (NL). **VAN VEEN, Johannes, Anthonius, Robert** [NL/NL]; Badhuisweg 3, NL-1031 CM Amsterdam (NL).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, 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, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) **Title:** CATALYST CARRIER AND CATALYST COMPOSITION, PROCESSES FOR THEIR PREPARATION AND THEIR USE

(57) **Abstract:** The invention provides a shaped catalyst carrier which is an inorganic refractory oxide having a monomodal mercury pore volume distribution wherein at least 50% of the total pore volume is present in pores having a pore diameter in the range of from 4 to 50 nm, a catalyst incorporating said carrier and having a high metals content. The catalyst finds use in hydrocracking refinery feedstocks.

WO 2005/084799 A1