PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7 : B01J 37/02, 23/75, 23/89

A1

(11) International Publication Number: WO 00/20116

(43) International Publication Date: 13 April 2000 (13.04.00)

(21) International Application Number: PCT/IB99/01626

(22) International Filing Date: 4 October 1999 (04.10.99)

(30) Priority Data:

98/9056	5 October 1998 (05.10.98)	ZA
98/11334	10 December 1998 (10.12.98)	ZA

(71) Applicant *(for all designated States except US)*: SASOL TECHNOLOGY (PROPRIETARY) LIMITED [ZA/ZA]; 1 Sturdee Avenue, Rosebank, 2196 Johannesburg (ZA).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: VAN BERGE, Peter, Jacobus [ZA/ZA]; 4 Keiskamma Avenue, 9573 Vaalpark (ZA). VAN DE LOOSDRECHT, Jan [NL/ZA]; 63 Edge of the Vaal, 9573 Vaalpark (ZA). CARICATO, Elsie, Adriana [ZA/ZA]; 24 Oosthuizen Street, 9570 Sasolburg (ZA). BARRADAS, Sean [ZA/ZA]; Jonmar Semo Estate, 9585 Parys (ZA). SIGWEBELA, Bulelani, Humphrey [ZA/ZA]; 9 Oranje Flats, 2 Retief Street, 9570 Sasolburg (ZA).

(74) Agent: KOTZE, Gavin, Salomon; Adams & Adams, Adams & Adams Place, 1140 Prospect Street, Hatfield, 0083 Pretoria (ZA).

(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, 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, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, 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 the receipt of amendments.

(54) Title: IMPREGNATION PROCESS FOR CATALYSTS

(57) Abstract

A process for preparing a catalyst precursor comprises subjecting, in an initial treatment stage, a slurry of a catalyst support, an active catalyst component precursor, and water, to treatment at elevated temperature and at sub–atmospheric pressure, to impregnate the support with the precursor and to dry the impregnated support partially. The initial treatment stage does not continue beyond a point where the impregnated carrier has a LOI which is less than 1,2 LOI_w. In a subsequent treatment stage, the partially dried impregnated support is subjected to more vigorous drying at elevated temperature and at sub–atmospheric pressure to obtain a dried impregnated carrier, which is calcined to obtain the catalyst precursor. The catalyst precursor is reduced, to obtain a catalyst.