

21/05/03
2 00 302 8685

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

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
30 May 2002 (30.05.2002)

PCT

(10) International Publication Number
WO 02/042210 A3

(51) International Patent Classification:
7/00, B01J 21/12, 21/04, 23/882, 23/883

COIF 7/00,

(74) Agent: SHELL INTERNATIONAL B.V.; Intellectual
Property Services, P.O. Box 384, NL-2501 CJ The Hague
(NL).

(21) International Application Number: PCT/US01/43922

(22) International Filing Date:
19 November 2001 (19.11.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/717,753 21 November 2000 (21.11.2000) US

(71) Applicant: SHELL INTERNATIONALE RESEARCH
MAATSCHAPPIJ B.V. [NL/NL]; Carel van Bylandtlaan
30, NL-2596 HR The Hague (NL).

(72) Inventors: CARRUTHERS, James, Donald; 321 Oak-
wood Drive, Fairfield, CT 06430 (US). KAMENETZKY,
Eduardo, Alberto; 38 Fairmont Avenue, Stamford, CT
06906 (US). ACHORN, Peter, John; 112 Sasco Hill Ter-
race, Fairfield, CT 06430 (US).

(81) Designated States (*national*): AF, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, 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, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG,
SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU,
ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, 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, TR). OAPI patent
(BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
NE, SN, TD, TG).

Published:

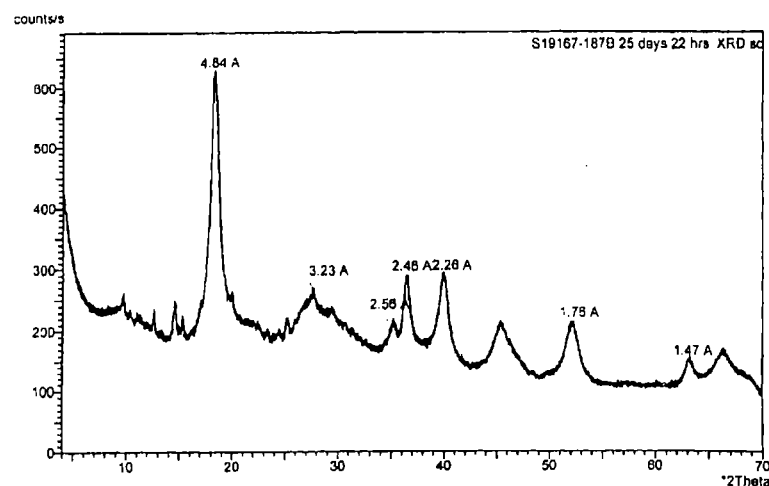
--- with international search report

[Continued on next page]

(54) Title: A NEW ALUMINUM TRIHYDROXIDE PHASE AND CATALYSTS MADE THEREFROM

X'Pert Graphics & Identify
Graph: 00-8d12

Xrd
9/22/00 14:52



Cytec Industries, Inc. - Analytical Services

WO 02/042210 A3

(57) Abstract: A newly discovered phase of aluminum trihydroxide and supports and catalysts made therefrom. This invention also relates to methods of producing this new phase of aluminum trihydroxide and catalysts made therefrom, and to a method for improving the activity of and for regenerating catalysts having a silica-alumina support.



162162



ACTION

(88) Date of publication of the international search report:

24 December 2003

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.