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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
7 February 2008 (07.02.2008)

PCT

(10) International Publication Number
WO 2008/015579 A3

(51) International Patent Classification:
C01F 7/02 (2006.01) *C08K 3/22* (2006.01)
C01F 7/18 (2006.01) *C09K 21/02* (2006.01)

(21) International Application Number:
PCT/IB2007/003375

(22) International Filing Date: 21 June 2007 (21.06.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/815,426	21 June 2006 (21.06.2006)	US
60/815,515	21 June 2006 (21.06.2006)	US
60/818,632	5 July 2006 (05.07.2006)	US
60/818,633	5 July 2006 (05.07.2006)	US
60/818,670	5 July 2006 (05.07.2006)	US
60/828,877	10 October 2006 (10.10.2006)	US
60/828,901	10 October 2006 (10.10.2006)	US
60/828,908	10 October 2006 (10.10.2006)	US
60/828,912	10 October 2006 (10.10.2006)	US
60/889,316	12 February 2007 (12.02.2007)	US
60/889,319	12 February 2007 (12.02.2007)	US
60/889,320	12 February 2007 (12.02.2007)	US
60/889,325	12 February 2007 (12.02.2007)	US
60/889,327	12 February 2007 (12.02.2007)	US
60/889,330	12 February 2007 (12.02.2007)	US
60/891,745	27 February 2007 (27.02.2007)	US
60/891,746	27 February 2007 (27.02.2007)	US
60/891,747	27 February 2007 (27.02.2007)	US
60/891,748	27 February 2007 (27.02.2007)	US
60/916,477	7 May 2007 (07.05.2007)	US

(71) Applicant *(for all designated States except US)*: **MARTINSWERK GMBH** [DE/DE]; Kolner Strasse 110, 50127 Bergheim (DE).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **HERBIET, Rene, Gabriel, Erich** [BE/BE]; Stendrich 150, 4700 Eupen (BE). **PUETZ, Norbert, Wilhelm** [DE/DE]; Mehmelerstrasse 1, 50129 Niederaubem (DE). **HEIM, Ingo, Uwe** [DE/DE]; Marienweg 42, 50226 Frechen (DE). **TOEDT, Winfried** [DE/DE]; Zum Killenberg 15, 54597 Steffein-Auel (DE). **NEUENHAUS, Mario** [DE/DE]; An der Ziegelei 11, 50189 Elsdorf (DE).

(74) Agent: **VAN, HEESCH, Helmut**; Uexküll & Stolberg, Beselerstrasse 4, 22607 Hamburg (DE).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, 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, 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, HU, IE, IS, IT, LT, LU, LV, MC, MT, 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).

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*
— *the filing date of the international application is within two months from the date of expiration of the priority period*

(88) Date of publication of the international search report:
29 May 2008

(54) Title: THE USE OF MILL-DRYING AND DEAGGLOMERATION TO PRODUCE THERMALLY STRABLE ALUMINUM THRIHYDROXIDE PARTICLES FROM AN ATH-CONTAINING

(57) Abstract: The present invention relates to a process for the production of aluminum hydroxide flame retardants. The process involves the after-treatment of aluminum hydroxide through the use of mill-drying and deagglomeration.

WO 2008/015579 A3