

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

(19) World Intellectual Property
Organization
International Bureau



(10) International Publication Number
WO 2015/193134 A1

(43) International Publication Date
23 December 2015 (23.12.2015)

(51) International Patent Classification:

A01N 25/12 (2006.01) *A01P 15/00* (2006.01)
A01N 59/16 (2006.01) *A01P 3/00* (2006.01)
C11D 7/20 (2006.01)

(21) International Application Number:

PCT/EP2015/062660

(22) International Filing Date:

8 June 2015 (08.06.2015)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

14172945.9 18 June 2014 (18.06.2014) EP

(71) Applicant: **BASF SE** [DE/DE]; 67056 Ludwigshafen (DE).

(72) Inventors: **TAVARES ANDRE, Rute da Conceicao**; Peter-Cornelius Platz 6, 55118 Mainz (DE). **FISCHER, Nico Frederik**; Langer Anger 35, 69115 Heidelberg (DE). **HUBACH, Patrick**; Lönsstraße 11, 67454 Haßloch (DE). **WALSDORFF, Christian**; Wittelsbachstr. 61, 67061 Ludwigshafen (DE). **SCHWIDETZKY, Christoph**; Im Wachtelschlag 14, 67454 Haßloch (DE).

(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, BN, BR, BW, BY, BZ, CA, CH, CL, 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, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) Title: USE OF GAMMA IRON(III) OXIDE (GAMMA- Fe_2O_3) CONTAINING PARTICLES FOR THE PREVENTION OF BIOFOULING AND/OR GROWTH OF MICROORGANISMS

(57) Abstract: The present invention relates to the use of gamma iron(III) oxide ($\gamma\text{-Fe}_2\text{O}_3$) containing particles for the prevention of biofouling and/or growth of microorganisms. Furthermore, it relates to a method for preventing biofouling of a substrate and to a method of imparting biocidal properties to the surface of a substrate.



WO 2015/193134 A1