

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
5 January 2006 (05.01.2006)

PCT

(10) International Publication Number
WO 2006/001033 A3

(51) International Patent Classification⁷: **B01J 13/00**

MD, MG, MK, MN, MW, MX, MZ, NA, NG, 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.

(21) International Application Number:
PCT/IN2005/000153

(22) International Filing Date: 11 May 2005 (11.05.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
550/MUM/2004 12 May 2004 (12.05.2004) IN

(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).

(71) Applicant and

(72) Inventor: **PAKNIKAR, Kishore, Madhukar** [IN/IN];
Agharkar Research Institute of Maharashtra Association for the Cultivation of Science, G.G. Agarkar Road, Pune 411 004 (IN).

(74) Agent: **DEWAN, Mohan**; R.K. Dewan & Company, Poddar Chambers, S.A. Brelvi Road, Fort, Mumbai 400 001, Maharashtra (IN).

Declarations under Rule 4.17:

- as to the identity of the inventor (Rule 4.17(i))
- 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))
- of inventorship (Rule 4.17(iv))

Published:

- with international search report

(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, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,

(88) Date of publication of the international search report:
27 April 2006

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: STABILIZING SOLUTIONS FOR SUBMICRONIC PARTICLES

(57) Abstract: The present invention provides a sub-micronic particle stabilizing solution which comprises an aqueous extract of macerated biological cells having pH of 5.5 to 7.5, open circuit potential between +0.02 to +0.2 volt, temperature between 20 degrees to 30 degrees Celsius and concentration of total organic carbon being at least 18,000 ppm. The biological cells are selected from plant cells of plant tissue, animal cells of animal tissue and microbial cells. The present invention also provides a method for making the stabilizing solution and a method of stabilizing sub-micronic metal particles.



WO 2006/001033 A3