

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
14 October 2004 (14.10.2004)

PCT

(10) International Publication Number  
**WO 2004/087618 A1**

- (51) International Patent Classification<sup>7</sup>: **C05F 3/00**, C05G 3/02
- (74) Agents: **BHOLA, Ravi** et al.; K & S Partners, 84-C, C6 Lane, Off Central Avenue, Sainik Farms, New Delhi 110 062 (IN).
- (21) International Application Number: PCT/IN2004/000078
- (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, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 31 March 2004 (31.03.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/458,372 31 March 2003 (31.03.2003) US

- (71) Applicant (for all designated States except US): **COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH** [IN/IN]; Rafi Marg, New Delhi 110 001 (IN).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **NAUTIYAL, Chandra, Shekhar** [IN/IN]; National Botanical Research Institute, Rana Pratap Marg, P.B. No.436, Lucknow, Uttar Pradesh 226 001 (IN). **MEHTA, Sangeeta** [IN/IN]; National Botanical Research Institute, Rana Pratap Marg, P.B. No.436, Lucknow, Uttar Pradesh 226 001 (IN). **SINGH, Harikesh, Bahadur** [IN/IN]; National Botanical Research Institute, Rana Pratap Marg, P.B. No.436, Lucknow, Uttar Pradesh 226 001 (IN). **MANSINGHKA, Sunil, Balkrishna** [IN/IN]; Go-vigyan Anusandhan Kendra, Deolapur, Nagpur (IN). **DAWLE, Suresh, Haribhau** [IN/IN]; Go-vigyan Anusandhan Kendra, Deolapur, Nagpur (IN). **RAJHANS, Naryan, Eknath** [IN/IN]; Go-vigyan Anusandhan Kendra, Deolapur, Nagpur (IN). **PUSHPANGADAN, Palpu** [IN/IN]; National Botanical Research Institute, Rana Pratap Marg, P.B. No.436, Lucknow, Uttar Pradesh 226 001 (IN).
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, 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, IT, 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).

**Declaration under Rule 4.17:**

— as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations

**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

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: A SYNERGISTIC FERMENTED PLANT GROWTH PROMOTING, BIO-CONTROL COMPOSITION

(57) Abstract: The present invention relates to a synergistic composition useful as plant and soil health enhancer, comprising urine, neem and garlic, individually or in all possible combinations, with the treatment showing it has the ability to stimulate accumulation of nutrients in the plant biomass, proliferation of plant growth promoting, phosphate solubilizing, abiotic stress tolerant and antagonists towards plant pathogenic fungi, control phytopathogenic fungi in the rhizosphere of plants, and enhances the total phenolic contents of the plants.

WO 2004/087618 A1