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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
1 February 2007 (01.02.2007)

PCT

(10) International Publication Number
WO 2007/013089 A1

(51) International Patent Classification:
C12Q 1/70 (2006.01) *G01N 33/569* (2006.01)

(21) International Application Number:
PCT/IN2005/000390

(22) International Filing Date:
29 November 2005 (29.11.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
1979/DEL/2005 26 July 2005 (26.07.2005) IN

(71) Applicant *(for all designated States except US)*: **COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH** [IN/IN]; INTELLECTUAL PROPERTY MANAGEMENT DIVISION, Third Floor, Niscair Building, 14 Satsang Vihar Marg, Special Institutional Area, New Delhi 110 067 (IN).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **KULSHRESHTHA, Saurabh** [IN/IN]; INSTITUTE OF HIMALAYAN BIORESOURCE TECHNOLOGY, Post Box No. 6, Palampur 176 061, Himachal Pradesh (IN). **HALLAN, Vipin** [IN/IN]; INSTITUTE OF HIMALAYAN BIORESOURCE TECHNOLOGY, Post Box No. 6, Palampur 176 061, Himachal Pradesh (IN). **RAIKHY, Gaurav** [IN/IN]; INSTITUTE OF HIMALAYAN BIORESOURCE TECHNOLOGY, Post Box No. 6, Palampur 176 061, Himachal Pradesh (IN). **ZAIDI, Aijaz, Asghar** [IN/IN]; INSTITUTE OF HIMALAYAN BIORESOURCE TECHNOLOGY, Post Box No. 6, Palampur 176 061, Himachal Pradesh (IN).

(74) Common Representative: **COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH**; INTELLECTUAL PROPERTY MANAGEMENT DIVISION, Third Floor, Niscair Building, 14 Satsang Vihar Marg, Special Institutional Area, New Delhi 110 067 (IN).

(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, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, 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.

(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, 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 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*

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:** DEVELOPMENT OF DIAGNOSTIC KIT AGAINST THE RECOMBINANT COAT PROTEIN OF PRUNUS NECROTIC RINGSPOT VIRUS

(57) **Abstract:** The present invention deals with a set of primers of sequence ID 1: upstream primer AACTGCAGATGGTTTGCCGAATTTGCAA and sequence ID 2: downstream primer GCTCTAGACTAGATCTCAAGCAGGTC useful for detection of *Prunus necrotic ringspot virus* in plants. It also relates to a method for detection of *Prunus necrotic ringspot virus* in plants by using said primers. Further the invention also relates to a diagnostic kit useful for detection of coat protein of *Prunus necrotic ringspot* in plants.

WO 2007/013089 A1