

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
14 July 2005 (14.07.2005)

PCT

(10) International Publication Number
WO 2005/064290 A2

- (51) International Patent Classification⁷: **G01F 23/00**
- (21) International Application Number:
PCT/IL2004/001106
- (22) International Filing Date: 6 December 2004 (06.12.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
159634 29 December 2003 (29.12.2003) IL
- (71) Applicant (for all designated States except US): **E.E.R. ENVIRONMENTAL ENERGY RESOURCES (ISRAEL) LTD.** [IL/IL]; 12 Hachilazon Street, 52522 Ramat-Gan (IL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **GNEDENKO, Valeri, G.** [RU/RU]; 19 Berzarin Street, Bldg.1, Apt.201, Moscow, 123585 (RU). **GORYACHEV, Igor, V.** [RU/RU]; 50 Peschanaja Street, Apt.50, Moscow, 125057 (RU). **DMITRIEV, Sergei, A.** [RU/RU]; 2 Jaroslavskoe Road, Apt. 240, 129348 Moscow (RU). **PEGAZ, David** [IL/IL]; 1 E. Mohl Street, Apt.14, 42540 Netanya (IL).
- (74) Agents: **LUZZATTO, Kfir** et al.; P.O. Box 5352, 84152 Beer Sheva (IL).
- (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.
- (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).
- Published:
— without international search report and to be republished upon receipt of that 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: TRANSCEIVER UNIT, APPARATUS, SYSTEM AND METHOD FOR DETECTING THE LEVEL OF WASTE IN A FURNACE

(57) Abstract: A microwave transceiver unit is for use in a shaft furnace is described. Two or more of the transceiver units are installed in the furnace and are used to determine the level of the waste in the shaft. Methods of using the transceiver units to determine the level of waste in the shaft of the furnace are also described.

WO 2005/064290 A2