

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
18 March 2004 (18.03.2004)

PCT

(10) International Publication Number
WO 2004/023728 A3

(51) International Patent Classification⁷: **H04L 12/28**

(21) International Application Number:
PCT/JP2003/011182

(22) International Filing Date:
2 September 2003 (02.09.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
NO.2002-261590 6 September 2002 (06.09.2002) JP

(71) Applicant (for all designated States except US): **MAT-SUSHITA ELECTRIC INDUSTRIAL CO., LTD.** [JP/JP]; 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **AIZU, Kazuhiro** [JP/JP]; 14-136, Miyukihigashi-machi 3-chome, Neyagawa-shi, Osaka 572-0055 (JP). **SHINTANI, Yasuyuki** [JP/JP]; 6-18-302, Koshienguchi 2-chome, Nishinomiya-shi, Hyogo 663-8114 (JP). **TSUCHIDA,**

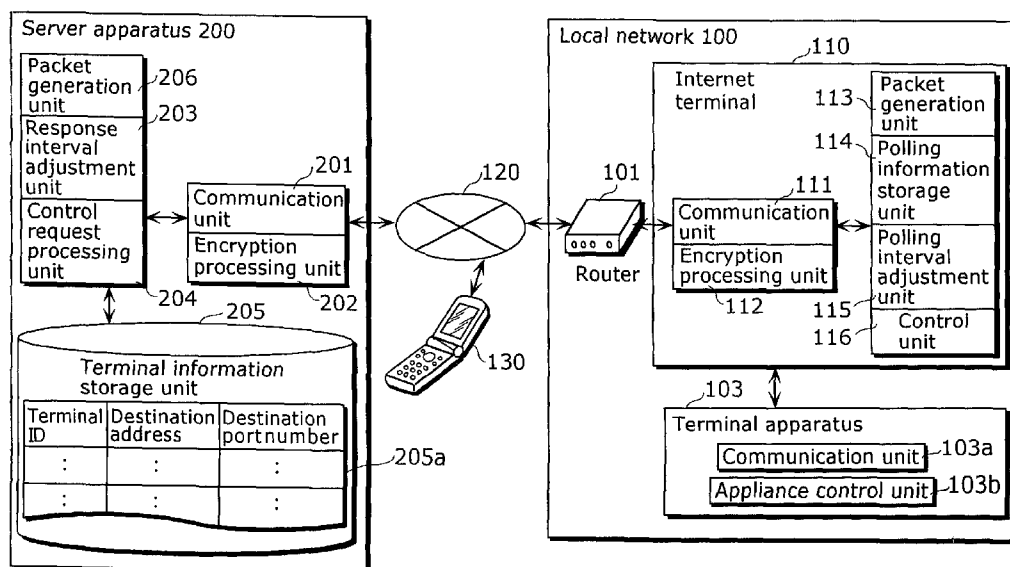
Shinichi [JP/JP]; 1-35-909, Mizuo 2-chome, Ibaraki-shi, Osaka 567-0891 (JP). **MATSUI, Jiro** [JP/JP]; 1-21, Myouden 5-chome, Ichikawa-shi, Chiba 272-0111 (JP). **YATABE, Tamotsu** [JP/JP]; 6-18-314, Michinobechuou 1-chome, Kamagaya-shi, Chiba 273-0113 (JP). **NISHIRA, Masatoshi** [JP/JP]; 115-3, Okumoto-cho 2-chome, Sakai-shi, Osaka 591-8007 (JP). **KUBO, Kiichi** [JP/JP]; 10-3-524, Higashimikuni 3-chome, Yodogawa-ku, Osaka-shi, Osaka 532-0002 (JP). **MURABAYASHI, Masanori** [JP/JP]; 10-206-601, Saido 1-chome, Kounan-ku, Yokohama-shi, Kanagawa 233-0008 (JP).

(74) Agent: **NII, Hiromori**; c/o NII Patent Firm, 3rd Floor, Shin-Osaka Suehiro Center Bldg., 11-26, Nishinakajima 3-chome, Yodogawa-ku, Osaka-shi, Osaka 532-0011 (JP).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, 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, 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.

[Continued on next page]

(54) Title: HOME TERMINAL APPARATUS AND COMMUNICATION SYSTEM



(57) Abstract: An internet terminal (110) according to the present invention is comprised of: a communication unit (111) that sends a local packet generated by a packet generation unit (113) and receives a response local packet from a server apparatus (200); an encryption processing unit (112) that encrypts the local packet to be sent out and decrypts the received response local packet; the packet generation unit (113) that generates the local packet; a polling information storage unit (114) that holds a terminal ID and a password used for identifying the internet terminal (110); a polling interval adjustment unit (115) that identifies a polling interval at which the local packet is periodically sent to the router (101); and a control unit (116) that sends control information to a terminal apparatus to be controlled and controls such terminal apparatus accordingly.

WO 2004/023728 A3



(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:
8 July 2004

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.

Published:

— *with international search report*