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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
7 February 2002 (07.02.2002)

PCT

(10) International Publication Number
WO 02/11391 A2

(51) International Patent Classification[7]: H04L 29/00

(21) International Application Number: PCT/US01/23453

(22) International Filing Date: 25 July 2001 (25.07.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/629,408 1 August 2000 (01.08.2000) US

(71) Applicant: **HEREUARE COMMUNICATIONS, INC.** [US/US]; 3707 Williams Road, Suite 100, San Jose, CA 95117 (US).

(72) Inventors: **ANTON, Francis, M., Jr.**; 1838 Charmeran Avenue, San Jose, CA 95124-3644 (US). **DONG, Clark**; HereUare Communications, Inc., 3707 Williams Road, Suite 100, San Jose, CA 95117 (US). **KIM, Jong**; HereUare Communications, Inc., 3707 Williams Road, Suite 100, San Jose, CA 95117 (US). **MARATHE, Ranganatha**; 3475 Granada Avenue #382, Santa Clara, CA 95051 (US).

(74) Agents: **JOYNER, Roger, S.** et al.; Pillsbury Winthrop LLP, 1600 Tysons Boulevard, McLean, VA 22102 (US).

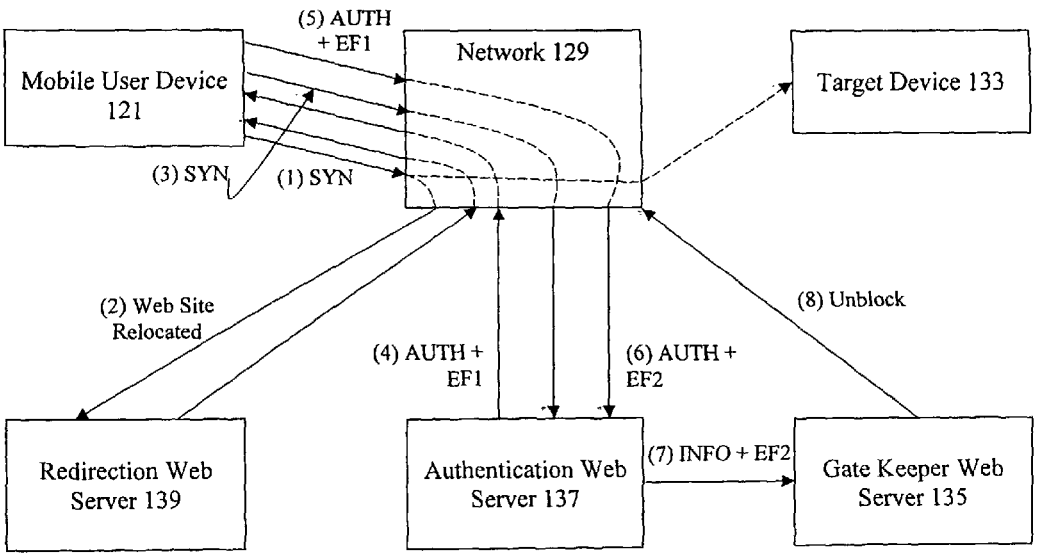
(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (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*

*[Continued on next page]*

(54) Title: SYSTEM FOR DISTRIBUTED NETWORK AUTHENTICATION AND ACCESS CONTROL




(57) Abstract: A user gains access to a private network by connecting to a network, either through a hardwired or wireless connection, and then initiates an Internet access request targeting any website. If the user is not already authorized for Internet access, then the user is sent to a first predetermined website that points the user to an authentication server accessible via the Internet. The authentication server sends the user an HTTP form pages requesting authentication information. When the user responds, a network monitoring device within the private network alters the form page to include the user's hardware address and an encoded ID based on the network's location. The authentication server forwards this data to a gate keeper server, which authenticates the new user and transmits an unblock message along with another encoded ID based on the network's location and the user's hardware address.

WO 02/11391 A2

*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.*