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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
16 June 2005 (16.06.2005)

PCT

(10) International Publication Number
WO 2005/055502 A3

(51) International Patent Classification[7]: G06F 15/00, 15/00, 15/177, 15/16, H04Q 7/20, H04L 12/26

(21) International Application Number:
PCT/US2004/040039

(22) International Filing Date:
30 November 2004 (30.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/526,135 1 December 2003 (01.12.2003) US

(71) Applicant *(for all designated States except US)*: **INTERDIGITAL TECHNOLOGY CORPORATION** [US/US]; 300 Delaware Avenue, Suite 527, Wilmington, DE 19801 (US).

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **SHAHEEN, Kamel, M.** [EG/US]; 429 Ashton Drive, King of Prussia, PA 19406 (US).

(74) Agents: **BALLARINI, Robert, J.** et al.; Volpe and Koenig, P.C., United Plaza, Suite 1600, 30 South 17th Street, Philadelphia, PA 19103 (US).

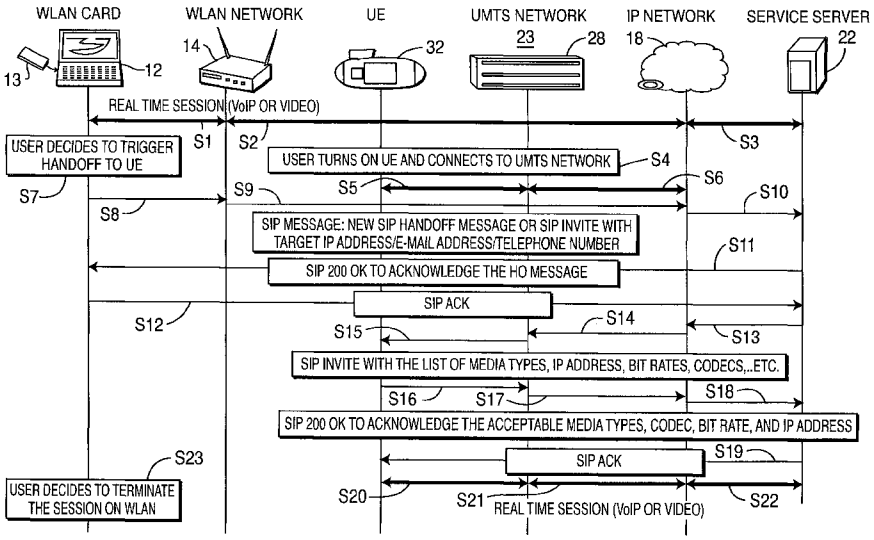
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, 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, 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:
— *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*

[Continued on next page]

(54) Title: SESSION INITIATION PROTOCOL (SIP) BASED USER INITIATED HANDOFF



(57) **Abstract:** Method and apparatus for providing a solution to the handoff problem includes a handoff is triggered by the WLAN network 14 assuming that there is a real time session between PC 12 and a called party, shown at S1. WLAND network 14 communicates with IP network 18, shown at S2, the IP network 18 provides the two-way communication between the PC 12 and service server 22, shown at S3. Both the user PC 12 and UE 32 establish a connection with the network 23 at S4-S6. The user then decides to trigger a handoff from PC 12 to the UE 32 at S7 and communicates this handoff request to the WLAN network 14, which transmits an SIP message through IP network 18 to service server 22. Service server 22 transmits an SIP 200 (OK) message to acknowledge the handoff (HO) message.

WO 2005/055502 A3

(88) Date of publication of the international search report:
2 March 2006

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.