

REVISED VERSION

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
6 December 2007 (06.12.2007)

PCT

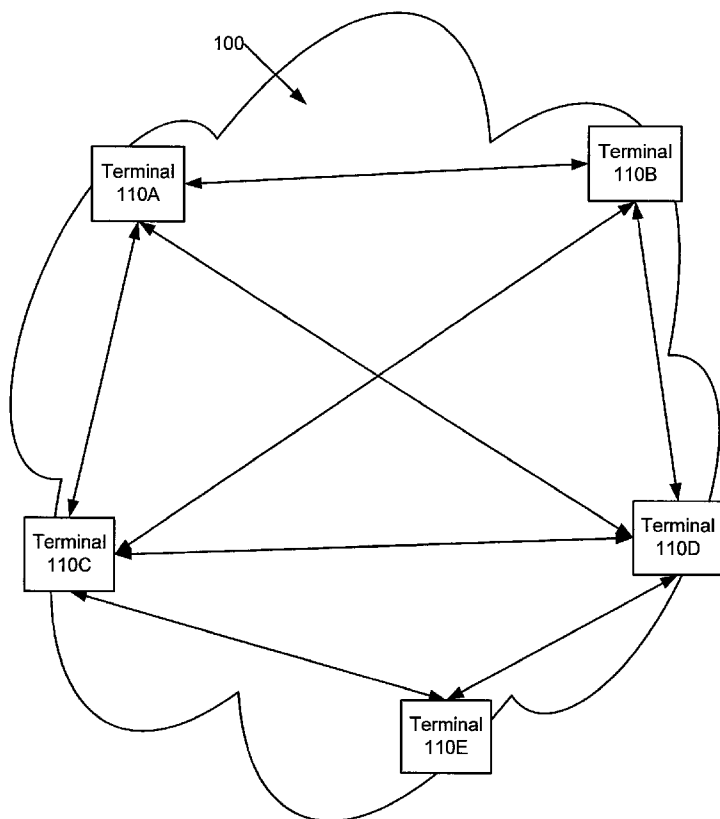
(10) International Publication Number
WO 2007/140305 A3

- (51) International Patent Classification: G06F 15/16 (2006.01) H04Q 7/00 (2006.01)
H04L 12/28 (2006.01) [IL/US]; Suite 300, 11975 El Camino Real, San Diego, CA 92130 (US). TAMIRISA, Balaji [US/US]; Suite 300, 11975 El Camino Real, San Diego, CA 92130 (US).
- (21) International Application Number: PCT/US2007/069751 (74) Agent: GORDON, Alan C.; Suite 2100, 530 B. Street, San Diego, CA 92101 (US).
- (22) International Filing Date: 25 May 2007 (25.05.2007) (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, 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, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/808,690 25 May 2006 (25.05.2006) US
11/753,481 24 May 2007 (24.05.2007) US
- (71) Applicant (for all designated States except US): SKY MOBILEMEDIA, INC. [US/US]; Suite 300, 11975 El Camino Real, San Diego, CA 92130 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): PTASHEK, Amnon (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,

[Continued on next page]

(54) Title: METHOD, APPARATUS AND SYSTEM FOR MULTI PEER TO PEER SERVICES

Multi Peer to Peer Topology



(57) Abstract: Methods and systems for techniques to enable multi peer-to-peer services are described. Terminals (110A - 110E) are enabled to recognize their peer terminals and create multipoint to multipoint peer to peer services in each of the related network protocol layers. Presence and recognition of the peers can be done by means of pre-configuration, the use of control points configuration, or any Ad- Hoc mechanism. Once a multipoint to multipoint peer to peer network is created, a set of applications and services may be utilized.

WO 2007/140305 A3



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, MT, 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).

(88) **Date of publication of the international search report:**
17 July 2008

**Date of publication of the revised international search
report:** 27 November 2008

Published:

— *with international search report*

(15) **Information about Correction:**

see Notice of 27 November 2008

REVISED
VERSION

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/69751

A. CLASSIFICATION OF SUBJECT MATTER

IPC: G06F 15/16(2006.01);H04L 12/28(2006.01)
H04Q 7/00(2006.01)

USPC: 370/400,401,328;709/230,231,232,202,203,218,219,228

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 370/400,401,328;709/230,231,232,202,203,218,219,228

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
IEEE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 2005/0193106 A1 (DESAI et al) 01 September 2005 (01.09.2005), Abstract, Fig. 3, 7, 11 and 12	1 - 6, 8 - 18 and 20 - 23 ----- 7 and 19
Y	US 2002/0037716 A1 (MCKENNA et al) 28 May 2002 (28.05.2002), paragraph [0266] and Fig. 19	7
Y	US 6,424,841 B1 (GUSTAFSSON) 23 July 2002 (23.07.2002), column 13, lines 42 - 65	19

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

14 March 2008 (14.03.2008)

Date of mailing of the international search report

29 AUG 2008

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (571) 273-3201

Authorized officer

Bo Hui A. Zhu

Telephone No. N/A