

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
10 April 2008 (10.04.2008)

PCT

(10) International Publication Number
WO 2008/042869 A3

- (51) International Patent Classification:
H04Q 7/38 (2006.01) H04L 12/56 (2006.01)
- (21) International Application Number:
PCT/US2007/080115
- (22) International Filing Date: 1 October 2007 (01.10.2007)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/848,216 29 September 2006 (29.09.2006) US
11/863,944 28 September 2007 (28.09.2007) US
- (71) Applicant (for all designated States except US): QUALCOMM INCORPORATED [US/US]; Attn: International IP Administration, 5775 Morehouse Drive, San Diego, California 92121 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): AHMAVAARA, Kalle I. [FI/US]; 5775 Morehouse Drive, San Diego, California 92121 (US).
- (74) Agents: BACHAND, Richard A. et al.; Attn: International IP Administration, 5775 Morehouse Drive, San Diego, California 92121 (US).
- (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, DO, 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, ME, 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.

(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, 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).

Declarations under Rule 4.17:

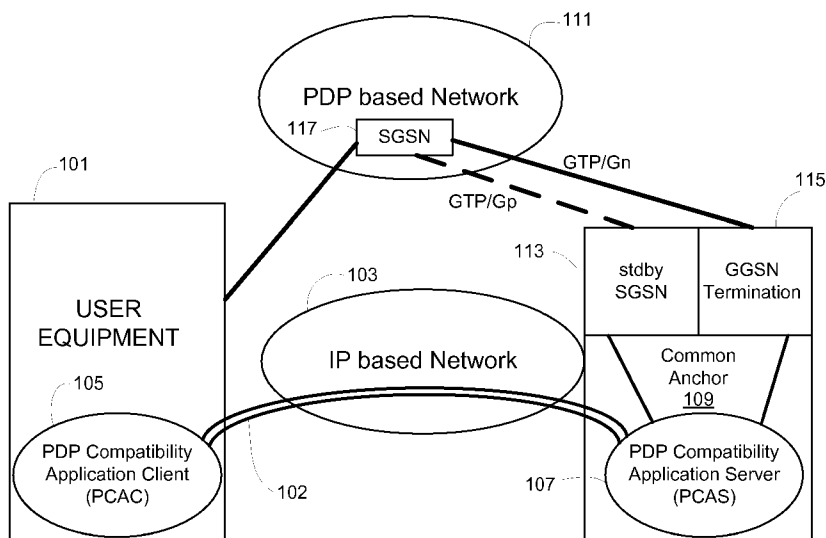
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

- with international search report

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR PREPARING CONNECTION TRANSFER BETWEEN AN IP BASED COMMUNICATION SYSTEM (LTE/SAE) AND A PDP CONTEXT BASED COMMUNICATION SYSTEM (UMTS/GPRS)



(57) Abstract: In a method and apparatus for providing system interoperability in wireless communications an IP based client-server application maintains a proper set of PDP contexts while a mobile is connected via an IP based system such as LTE/SAE. The application client resides in the mobile and the server resides within the network at a common anchor point (115) between the IP based system. (103) and a PDP context based system (111). The PDP contexts are kept up to date but on hold until a handover occurs for the mobile from the IP based system (111).

WO 2008/042869 A3



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:
29 May 2008

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2007/080115

A. CLASSIFICATION OF SUBJECT MATTER INV. H04Q7/38 ADD. H04L12/56				
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) H04Q H04L				
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 practical, search terms used) EPO-Internal				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	EP 1 646 189 A (MATSUSHITA ELECTRIC IND CO LTD [JP]) 12 April 2006 (2006-04-12) abstract figures 1-5 paragraphs [0017] - [0019] paragraph [0022] paragraphs [0070], [0075] paragraphs [0081], [0083] - [0089] claim 1	1-25		
X	US 2005/130659 A1 (GRECH SANDRO [FI] ET AL) 16 June 2005 (2005-06-16) abstract figures 1,2 paragraphs [0011], [0012] paragraphs [0016] - [0018] paragraphs [0025] - [0043]	1-4,6-9, 11-14, 16-18,21		
----- -/--				
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C.				
<input checked="" type="checkbox"/> See patent family annex.				
* Special categories of cited documents :				
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; vertical-align: top;"> *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but 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 </td> <td style="width: 50%; border: none; vertical-align: top;"> *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 </td> </tr> </table>			*A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but 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
A document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but 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	Date of mailing of the international search report			
28 March 2008	10/04/2008			
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Möll, Hans-Peter			

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2007/080115

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X P,A	<p>WO 2007/092804 A (LUCENT TECHNOLOGIES INC [US]; PALAT SUDEEP [GB]; CASATI ALESSIO [GB];) 16 August 2007 (2007-08-16) abstract</p> <p>figures 1,2 page 2, line 1 - page 4, line 11 page 10, line 9 - page 16, line 10</p>	<p>1-4, 6-9, 11-14, 16-18, 21 5, 10, 15, 19, 20, 22-25</p>

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2007/080115

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1646189	A	12-04-2006	CN 101036356 A	12-09-2007
			WO 2006037386 A1	13-04-2006
			KR 20070065903 A	25-06-2007

US 2005130659	A1	16-06-2005	EP 1639853 A2	29-03-2006
			WO 2005002267 A2	06-01-2005

WO 2007092804	A	16-08-2007	NONE	
