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- (71) Applicant (for all designated States except US): **RAM-BUS INC.** [US/US]; 1050 Enterprise Way, Suite 700, Sunnyvale, CA 94089 (US).
- (72) Inventors; and
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- (74) Agents: **OCAMPO, Carlo Miguel C.** et al.; Fenwick & West LLP, Silicon Valley Center, 801 California Street, Mountain View, CA 94041 (US).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, 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, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
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Declarations under Rule 4.17:

— of inventorship (Rule 4.17(iv))

Published:

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(88) Date of publication of the international search report:

23 August 2012

(54) Title: SESSION MANAGEMENT FOR COMMUNICATION IN A HETEROGENEOUS NETWORK

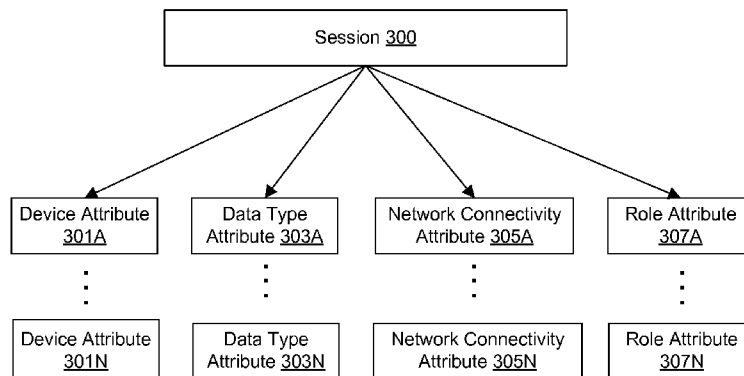


Fig. 3

(57) Abstract: The present disclosure describes one embodiment of an operating center server for managing communication sessions between terminal devices such as mobile phones, VOIP phones, and computers for example. The OC server creates and maintains sessions for one or more terminal devices that allow communication between these disparate devices on disparate communication networks through the OC server.

WO 2012/087419 A3

INTERNATIONAL SEARCH REPORT

International application No PCT/US2011/057132

A. CLASSIFICATION OF SUBJECT MATTER INV. H04L29/06 H04L29/08 ADD.				
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) 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 practicable, search terms used) EPO-Internal, WPI Data				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
A	WO 2006/131130 A1 (ERICSSON TELEFON AB L M [SE]; KELLER RALF [DE]; WITZEL ANDREAS [DE]) 14 December 2006 (2006-12-14) abstract page 2, line 10 - page 3, line 25 page 5, line 14 - page 12, line 9 figures 1-5 claims 1-23 ----- -/--	1-4,7-9, 14,15, 17-20, 32,34, 42,44		
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C.</td> <td style="width: 50%; border: none;"><input checked="" type="checkbox"/> See patent family annex.</td> </tr> </table>			<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C.	<input checked="" type="checkbox"/> See patent family annex.
<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;"> "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent 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;"> "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 application or patent 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 application or patent 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		
29 May 2012		06/06/2012		
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016		Authorized officer Konrad, Markus		

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2011/057132

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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A	<p>----- WO 2008/135848 A2 (NOKIA CORP [FI]; NOKIA INC [US]; LEPPANEN EVA-MARIA [FI]; LEPPISAARI A) 13 November 2008 (2008-11-13)</p> <p>abstract paragraph [0062] - paragraph [0102] paragraph [0125] - paragraph [0148] figures 6-10 claims 1-67</p>	<p>1-4,7-9, 14,15, 17-20, 32,34, 42,44</p>
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INTERNATIONAL SEARCH REPORT

International application No
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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X	US 2007/118656 A1 (ANDERSON DAVID J [US] ET AL) 24 May 2007 (2007-05-24) abstract paragraph [0003] - paragraph [0008] paragraph [0010] paragraph [0035] - paragraph [0037] paragraph [0040] paragraph [0049] paragraph [0052] - paragraph [0065] paragraph [0073] - paragraph [0083] paragraph [0091] - paragraph [0092] paragraph [0095] - paragraph [0102] paragraph [0109] - paragraph [0121] figures 1-5, 8-10, 12, 14, 17-19 -----	1,5,6, 16, 18-26, 32,33, 35-38, 42,43, 45,46
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INTERNATIONAL SEARCH REPORT

International application No
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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Y	abstract page 2 - page 3 page 5 - page 16 figure 1 claims 1-22	12, 27-31, 39-41, 47-49
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INTERNATIONAL SEARCH REPORT

International application No PCT/US2011/057132

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2006/025111 A1 (KARAOGUZ JEYHAN [US] ET AL) 2 February 2006 (2006-02-02) the whole document -----	10-13, 27-31, 39-41, 47-49
A	US 7 245 913 B1 (NGUYEN HIEU [US] ET AL) 17 July 2007 (2007-07-17) the whole document -----	10-13, 27-31, 39-41, 47-49

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.

3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-4, 7-9, 14, 15, 17, 32, 34, 42, 44(completely);
18-20(partially)

A server entity managing the set-up of a communication session between two user devices over two different networks.

2. claims: 5, 6, 16, 21-26, 33, 35-38, 43, 45, 46(completely);
18-20(partially)

A server entity managing the migration from a communication session existing between a 1st and 2nd device to a communication session linking a 3rd and said 2nd device in an ongoing session.

3. claims: 10-13, 27-31, 39-41, 47-49(completely); 18-20(partially)

A server entity managing a network switch for a first user from a first network to a second network while in a session with a second user.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/US2011/057132

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