

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
5 July 2007 (05.07.2007)

PCT

(10) International Publication Number
WO 2007/074466 A3

(51) International Patent Classification:

H04M 3/54 (2006.01) **H04M 17/00** (2006.01)

(21) International Application Number:

PCT/IL2006/001510

(22) International Filing Date:

28 December 2006 (28.12.2006)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/754,198	28 December 2005 (28.12.2005)	US
60/755,080	3 January 2006 (03.01.2006)	US
60/776,696	27 February 2006 (27.02.2006)	US
60/788,071	3 April 2006 (03.04.2006)	US

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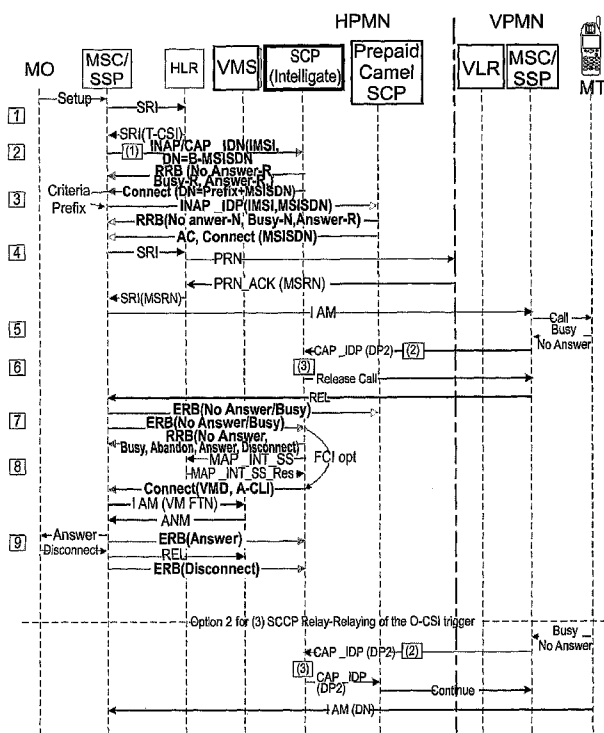
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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS,
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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, NL, PL, PT,

[Continued on next page]

(54) Title: LATE FORWARDING TO LOCAL VOICEMAIL SYSTEM OF CALLS TO ROAMING USERS



(1) The T-CSI CAP_IDP or TICK INAP_IDP (DP12) trigger is sent to the actual GT of the Prepaid SCP but is redirected by the STP to the IntellGate - with an alternate route in case I/G is down.
(2) The CAMEL O-CSI trigger (SCF Addr. PPS) should be redirected by the STP to Starhome's SCP.
(3) I/G as an SCCP Relay - Starhome's IntellGate shall act as an SCCP Relay and decide whether to relay the O-CSI trigger to the actual SCP (option 2) or Release the call if it is a Mobile-Forwarded call (option 1). The release of the call shall release the trombone

(57) Abstract: Apparatus and method for management of optimal voicemail deposit to the voicemail of a currently roaming mobile telephony user during late call forwarding, is located at the user's home network and includes a disconnection unit for disconnecting an international link upon detection of late call forwarding; a triggering unit that ensures that a trigger signal is available for triggering the passing of control of the call to allow direct forwarding of the caller to the voicemail; and a direct forwarding unit that receives the control and carries out the forwarding. Generally the roaming user only generates a single trigger, and this causes difficulties if multiple services need triggering for the same call, such as a prepaid unit and the optimal voicemail deposit. The disclosure teaches methods which when used in combination provide a system that can operate at the home network irrespective of the configuration of the roaming network.



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:
18 October 2007

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*

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.

INTERNATIONAL SEARCH REPORT

International application No

PCT/IL2006/001510

A. CLASSIFICATION OF SUBJECT MATTER

INV. H04M3/54 H04M17/00

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)

H04M H04Q

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 1 531 647 A (STARHOME GMBH [CH]) 18 May 2005 (2005-05-18) paragraph [0113] - paragraph [0115]; figure 6	1,12-15, 25-27
Y	paragraph [0181]; figure 18	2-4,6-8, 16,17, 19-21
X	paragraph [0078] - paragraph [0080]	9-11, 22-24
Y	----- WO 02/19686 A1 (NOKIA CORP [FI]; KOTALUOTO KARRI [FI]; AHONEN JUKKA [FI]) 7 March 2002 (2002-03-07) page 11, line 26 - page 13, line 16; figure 3 ----- -/--	2-4,16, 17



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 document but published on or after the international filing date
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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

26 July 2007

Date of mailing of the international search report

07/08/2007

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No

PCT/IL2006/001510

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 1 555 835 A (ORANGE PERSONAL COMM SERV LTD [GB]) 20 July 2005 (2005-07-20) paragraph [0043] - paragraph [0044]; figure 3 -----	6-8, 19-21
L	NOLDUS, ROGIER: "CAMEL: Intelligent Networks for the GSM, GPRS and UMTS Network" 24 February 2006 (2006-02-24), JOHN WILEY AND SONS LTD , XP002444305 providing documentary evidence of common general knowledge in the field of CAMEL phase 3. CAMEL phase 3 was frozen in March 2000. * 5.2.4 CAMEL Service Invocation at Call Failure * -----	5,18

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IL2006/001510

Box 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 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 fee, this Authority did not invite payment of any additional fee.
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.
- ☐ 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: 1-4,12-14,15-17,25-27

Apparatus and method for management of optimal voicemail deposit to the voicemail of currently roaming mobile telephony user during late call forwarding involving a method for obtaining a trigger comprising double triggering.

2. claims: 5,18

Apparatus and method for management of optimal voicemail deposit to the voicemail of currently roaming mobile telephony user during late call forwarding involving a method for obtaining a trigger comprising call status triggers.

3. claims: 6-8,19-21

Apparatus and method for management of optimal voicemail deposit to the voicemail of currently roaming mobile telephony user during late call forwarding involving a method for obtaining a trigger comprising an IN service broker.

4. claims: 9-11,22-24

Apparatus and method for management of optimal voicemail deposit to the voicemail of currently roaming mobile telephony user during late call forwarding involving a method for obtaining a trigger comprising Standard Optional Routing.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IL2006/001510

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EP 1555835	A	20-07-2005	NONE