12345

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

UNITED STATES DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

September 28, 2021

THIS IS TO CERTIFY THAT ANNEXED IS A TRUE COPY FROM THE RECORDS OF THIS OFFICE OF THE FILE WRAPPER AND CONTENTS OF:

APPLICATION NUMBER: *14/035,806*
FILING DATE: *September 24, 2013*
PATENT NUMBER: *10880721*
ISSUE DATE: *December 29, 2020*

Certified by

Under Secretary of Commerce
for Intellectual Property
and Director of the United States
Patent and Trademark Office

PTO/SB/14 (11-08)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	SMARB19.004C1
	Application Number	
Title of Invention	MOBILE GATEWAY	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Applicant Information:

Applicant 1

Applicant Authority	◉ Inventor	○ Legal Representative under 35 U.S.C. 117	○ Party of Interest under 35 U.S.C. 118

Prefix	Given Name	Middle Name	Family Name	Suffix
	Johan	Emil Viktor	Björsell	

Residence Information (Select One)	○ US Residency	◉ Non US Residency	○ Active US Military Service

City	Vancouver	Country Of Residence	CA
Citizenship under 37 CFR 1.41(b)	SE		

Mailing Address of Applicant:

Address 1	P.O. Box 29164		
Address 2	RPO South Granville Post		
City	Vancouver	State/Province	BC
Postal Code	V6J 0A6	Country	CA

Applicant 2

Applicant Authority	◉ Inventor	○ Legal Representative under 35 U.S.C. 117	○ Party of Interest under 35 U.S.C. 118

Prefix	Given Name	Middle Name	Family Name	Suffix
	Maksym		Sobolyev	

Residence Information (Select One)	○ US Residency	◉ Non US Residency	○ Active US Military Service

City	New Westminster	Country Of Residence	CA
Citizenship under 37 CFR 1.41(b)	UA		

Mailing Address of Applicant:

Address 1	506-210 Eleventh Street		
Address 2			
City	New Westminster	State/Province	BC
Postal Code	V3M 4C9	Country	CA

Applicant 3

Applicant Authority	◉ Inventor	○ Legal Representative under 35 U.S.C. 117	○ Party of Interest under 35 U.S.C. 118

Prefix	Given Name	Middle Name	Family Name	Suffix
	Pentti	Kalevi	Huttunen	

Residence Information (Select One)	○ US Residency	◉ Non US Residency	○ Active US Military Service

City	Vancouver	Country Of Residence	CA

T-Mobile Exhibit 1002

PTO/SB/14 (11-08)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	SMARB19.004C1
	Application Number	
Title of Invention	MOBILE GATEWAY	

Citizenship under 37 CFR 1.41(b)	CA			
Mailing Address of Applicant:				
Address 1	76-3180 East 58th Avenue			
Address 2				
City	Vancouver	**State/Province**	BC	
Postal Code	V5S 3S8	**Country**	CA	

Applicant 4

Applicant Authority	(•) Inventor	( ) Legal Representative under 35 U.S.C. 117	( ) Party of Interest under 35 U.S.C. 118	
Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Emil		Malak	

Residence Information (Select One)	( ) US Residency	(•) Non US Residency	( ) Active US Military Service	
City	Vancouver	**Country Of Residence**	CA	
Citizenship under 37 CFR 1.41(b)	CA			
Mailing Address of Applicant:				
Address 1	1005-1288 Alberni Street			
Address 2				
City	Vancouver	**State/Province**	BC	
Postal Code	V6E 4N5	**Country**	CA	

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	20995		
Email Address	efiling@knobbe.com	Add Email	Remove Email

Application Information:

Title of the Invention	MOBILE GATEWAY		
Attorney Docket Number	SMARB19.004C1	**Small Entity Status Claimed**	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Suggested Class (if any)		**Sub Class (if any)**	
Suggested Technology Center (if any)			
Total Number of Drawing Sheets (if any)	17	**Suggested Figure for Publication (if any)**	

T-Mobile Exhibit 1002

PTO/SB/14 (11-08)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	SMARB19.004C1
	Application Number	
Title of Invention	MOBILE GATEWAY	

Publication Information:

☐	Request Early Publication (Fee required at time of Request 37 CFR 1.219)
☐	**Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S. C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Enter either Customer Number or complete the Representative Name section below. If both sections are completed the Customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	20995		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78(a)(2) or CFR 1.78(a)(4), and need not otherwise be made part of the specification.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	13/056277	2011-01-27
Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
13/056277	a 371 of international	PCT/CA2009/001062	2009-07-28
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
PCT/CA2009/001062	non provisional of	61/129898	2008-07-28

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

Foreign Priority Information:

This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(a).

			Remove
Application Number	Country[1]	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
			◉ Yes ○ No

EFS Web 2.2.3

T-Mobile Exhibit 1002

PTO/SB/14 (11-08)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	SMARB19.004C1
	Application Number	
Title of Invention	MOBILE GATEWAY	

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

Assignee Information:

Providing this information in the application data sheet does not substitute for compliance with any requirement of part 3 of Title 37 of the CFR to have an assignment recorded in the Office.

Assignee 1

If the Assignee is an Organization check here. ☒

Organization Name	Digifonica (International) Limited		
Mailing Address Information:			
Address 1	773 Hornby Street		
Address 2			
City	Vancouver	**State/Province**	BC
Country	CA	Postal Code	V6Z 1S4
Phone Number		Fax Number	
Email Address			

Additional Assignee Data may be generated within this form by selecting the **Add** button.

Signature:

A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18. Please see 37 CFR 1.4(d) for the form of the signature.

Signature				Date (YYYY-MM-DD)	2013-09-24
First Name	John	Last Name	Carson	Registration Number	34303

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

MOBILE GATEWAY

INCORPORATION BY REFERENCE TO ANY PRIORITY APPLICATIONS

[0001] This application is a continuation of U.S. Application No. 13/056277, filed January 27, 2011, entitled "Mobile Gateway", which is a national phase entry of PCT/CA2009/001062, filed July 28, 2009, which claims priority to U.S. Provisional Application No. 61/129,898, filed July 28, 2008, all of which are incorporated by reference in their entireties.

BACKGROUND

Field

[0002] This invention relates generally to telecommunication, and more particularly to methods, systems, apparatuses, and computer readable media for initiating or enabling a call with a mobile telephone to a callee.

Description of the Related Technologies

[0003] Mobile telephone service providers often charge significant fees for long distance telephone calls, particularly when the mobile telephone is roaming in another mobile telephone service provider's network.

[0004] One known technique for avoiding the long distance charges of mobile telephone service providers is to use a "calling card". A "calling card" may permit the user of the mobile telephone to place a call to a local telephone number or to a less-expensive telephone number (such as a toll-free number, for example) instead of placing the call directly to the callee. The user may thus avoid the long distance charges of the mobile telephone service provider, which may be higher than the charges for using the "calling card". However, this technique can be cumbersome and undesirable, because it may require the user of the mobile telephone to follow a number of complicated or cumbersome steps in order to initiate a call to the callee, for example.

SUMMARY OF CERTAIN EMBODIMENTS

[0005] In accordance with one aspect there is provided a method of initiating a call to a callee using a mobile telephone. The method involves receiving, from a user of the mobile telephone, a callee identifier associated with the callee; transmitting an access code request message to an access server, the access code request message including the callee identifier; receiving an access code reply message from the access server in response to the access code request message, the access code reply message including an access code different from the callee identifier and associated with the callee identifier; and initiating a call with the mobile telephone using the access code to identify the callee.

[0006] Transmitting may involve transmitting the access code request message to the access server on a non-voice network.

[0007] Transmitting may involve transmitting a location identifier of a location associated with the mobile telephone to the access server.

[0008] Transmitting the location identifier may involve transmitting an IP address of the mobile telephone in a wireless IP network.

[0009] Transmitting the location identifier may involve transmitting an identifier of a wireless voice signal station in wireless communication with the mobile telephone.

[0010] Transmitting the location identifier may involve transmitting a user-configured identifier of a location associated with the mobile telephone.

[0011] Receiving the access code reply message may involve receiving the access code reply message from the access server on a non-voice network.

[0012] Receiving the access code reply message may involve receiving, in the access code reply message, an access code temporarily associated with the callee identifier.

[0013] Receiving the access code reply message may involve receiving, in the access code reply message, a telephone number identifying a channel operably configured to cooperate with an IP network to cause a call involving the mobile telephone and the callee to be routed through the IP network.

[0014] Initiating the call may involve engaging a routing controller to route the call on the IP network to the callee.

[0015] The method may further involve: receiving from the mobile telephone the access code request message; communicating with a routing controller to obtain from the routing controller the access code wherein the access code identifies a channel and is useable by the mobile telephone to cause the routing controller to establish a call to the callee using the channel; and transmitting the access code reply message to the mobile telephone.

[0016] In accordance with another aspect, there is provided a mobile telephone. The mobile telephone includes: provisions for receiving, from a user of the mobile telephone, a callee identifier associated with the callee; transmitting provisions for transmitting an access code request message to an access server, the access code request message including the callee identifier; provisions for receiving an access code reply message from the access server in response to the access code request message, the access code reply message including an access code different from the callee identifier and associated with the callee identifier; and provisions for initiating a call using the access code to identify the callee.

[0017] The transmitting provisions may include a non-voice network interface for transmitting the access code request message to the access server on a non-voice network.

[0018] The access code request message may further include a location identifier of a location associated with the mobile telephone.

[0019] The location identifier may include an IP address of the mobile telephone in a wireless IP network.

[0020] The location identifier may include an identifier of a wireless voice signal station in wireless communication with the mobile telephone.

[0021] The location identifier may include a user-configured identifier of a location associated with the mobile telephone.

[0022] The provisions for receiving an access code reply message may include a non-voice network interface for receiving the access code reply message on a non-voice network.

[0023] The access code may include a telephone number.

[0024] The means for initiating may involve a mobile telephone network interface.

[0025] In accordance with another aspect, there is provided a system for initiating a call to a callee. The system includes the mobile telephone, a routing controller, and an

access server. The access server includes: provisions for receiving from the mobile telephone the access code request message; provisions for communicating with the routing controller to obtain from the routing controller the access code wherein the access code identifies a channel and is useable by the mobile telephone to cause the routing controller to establish a call to the callee using the channel; and provisions for transmitting the access code reply message including the access code to the mobile telephone.

[0026] In accordance with another aspect, there is provided a mobile telephone. The mobile telephone includes a processor circuit, a network interface in communication with the processor circuit, and a computer readable medium in communication with the processor circuit and encoded with codes for directing the processor circuit to: receive, from a user of the mobile telephone, a callee identifier associated with the callee; cause an access code request message to be transmitted to an access server, the access code request message including the callee identifier; receive an access code reply message from the access server in response to the access code request message, the access code reply message including an access code different from the callee identifier and associated with the callee identifier; and initiate a call using the access code to identify the callee.

[0027] The network interface may include a non-voice network interface, and the codes for directing the processor circuit to cause the access code request message to be transmitted may include codes for directing the processor circuit to cause the access code request message to be transmitted to the access server using the non-voice network interface on a non-voice network.

[0028] The access code request message may further include a location identifier of a location associated with the mobile telephone.

[0029] The location identifier may include an IP address of the mobile telephone in a wireless IP network.

[0030] The location identifier may include an identifier of a wireless voice signal station in wireless communication with the mobile telephone.

[0031] The location identifier may include a user-configured identifier of a location associated with the mobile telephone.

[0032] The network interface may include a non-voice network interface, and the codes for directing the processor circuit to receive an access code reply message may include codes for directing the processor circuit to cause the access code reply message to be received from the access server using the non-voice network interface on a non-voice network.

[0033] The access code may include a telephone number identifying a channel operably configured to cooperate with an IP network to cause a call involving the mobile telephone and the callee to be routed through the IP network.

[0034] The network interface may include a mobile telephone network interface, and the codes for directing the processor circuit to initiate may include codes for directing the processor circuit to cause a call to be initiated using the mobile telephone network interface on a mobile telephone network.

[0035] In accordance with another aspect, there is provided a system for initiating a call to a callee. The system includes: the mobile telephone; a routing controller; and an access server comprising a processor circuit and a computer readable medium in communication with the processor circuit. The computer readable medium is encoded with codes for directing the processor circuit to: receive from the mobile telephone the access code request message; communicate with the routing controller to obtain from the routing controller the access code wherein the access code identifies a channel and is useable by the mobile telephone to cause the routing controller to establish a call to the callee using the channel; and transmit the access code reply message to the mobile telephone.

[0036] In accordance with another aspect, there is provided a computer readable medium encoded with codes for directing a processor circuit to: receive, from a user of a mobile telephone, a callee identifier associated with a callee; transmit an access code request message to an access server, the access code request message including the callee identifier; receive an access code reply message from the access server in response to the access code request message, the access code reply message including an access code different from the callee identifier and associated with the callee identifier; and initiate a call using the access code to identify the callee.

[0037] In accordance with another aspect, there is provided a method for enabling a mobile telephone to initiate a call to a callee through a channel. The method involves:

receiving from the mobile telephone an access code request message including a callee identifier associated with the callee; communicating with a routing controller to obtain from the routing controller an access code identifying the channel, the access code being different from the callee identifier and useable by the mobile telephone to initiate a call to the callee using the channel; and transmitting an access code reply message including the access code to the mobile telephone.

[0038] Receiving may involve receiving the access code request message on a non-voice network.

[0039] The method may further involve causing the routing controller to produce the access code.

[0040] Producing may involve selecting the access code from a pool of access codes, where each access code in the pool of access codes identifies a respective telephone number.

[0041] The method may further involve determining a local calling area associated with the mobile telephone.

[0042] Determining may involve accessing a dialing profile associated with the caller, the dialing profile including a location field having contents identifying at least a default location of the caller.

[0043] Determining may involve receiving an IP address of the mobile telephone in a wireless IP network.

[0044] Determining may involve receiving an identifier of a wireless voice signal station in wireless communication with the mobile telephone.

[0045] Determining may involve receiving a user-configured identifier of a location associated with the mobile telephone.

[0046] Selecting may involve selecting an access code in the local calling area associated with the mobile telephone.

[0047] Each access code in the pool of access codes may further identify a respective channel operably configured to cooperate with an IP network to cause a call involving the mobile telephone and the callee to be routed through the IP network.

[0048] The method may further involve causing the routing controller to establish communication through the IP network in response to a call received on the channel.

[0049] Producing may further involve storing a caller identifier associated with the mobile telephone in association with the access code.

[0050] Causing the routing controller to establish communication may involve causing the routing controller to establish communication only if the caller identifier associated with the access code identifies the mobile telephone.

[0051] Producing may further involve storing the callee identifier in association with the access code.

[0052] Producing may further involve searching the pool of access codes for an access code associated with the callee identifier to identify the channel usable by the mobile telephone to initiate a call to the callee.

[0053] Producing may further involve storing, in association with the access code, a timestamp for use in determining when the usability of the access code to initiate a call to the callee will expire.

[0054] Causing the routing controller to establish communication may involve causing the routing controller to establish communication only if the usability of the access code to initiate a call to the callee has not expired.

[0055] Transmitting may involve transmitting the access code reply message on a non-voice network.

[0056] In accordance with another aspect, there is provided a system for enabling a mobile telephone to initiate a call to a callee through a channel. The system includes: provisions for receiving from the mobile telephone an access code request message including a callee identifier associated with the callee; provisions for communicating with the routing controller to obtain from the routing controller an access code identifying the channel, the access code being different from the callee identifier and useable by the mobile telephone to initiate a call to the callee using the channel; and provisions for transmitting an access code reply message including the access code to the mobile telephone.

[0057] The provisions for receiving may include a non-voice network interface for receiving the access code request message on a non-voice network.

[0058] The system may further include provisions for producing the access code.

[0059] The provisions for producing may include a processor circuit operably configured to select the access code from a pool of access codes, where each access code in the pool of access codes identifies a respective telephone number.

[0060] The processor circuit may be operably configured to determine a local calling area associated with the mobile telephone.

[0061] The processor circuit may be operably configured to determine a local calling area associated with the mobile telephone using a dialing profile associated with the caller, the dialing profile including a location field having contents identifying at least a default location of the caller.

[0062] The processor circuit may be operably configured to determine a local calling area associated with the mobile telephone using an IP address of the mobile telephone in a wireless IP network.

[0063] The processor circuit may be operably configured to determine a local calling area associated with the mobile telephone using an identifier of a wireless voice signal station in wireless communication with the mobile telephone.

[0064] The processor circuit may be operably configured to determine a local calling area associated with the mobile telephone using a user-configured identifier of a location associated with the mobile telephone.

[0065] The processor circuit may be operably configured to select an access code in the local calling area associated with the mobile telephone.

[0066] Each access code in the pool of access codes may further identify a respective channel operably configured to cooperate with an IP network to cause a call involving the mobile telephone and the callee to be routed through the IP network.

[0067] The processor circuit may be operably configured to establish communication through the IP network in response to a call received on the channel.

[0068] The processor circuit may be operably configured to store a caller identifier associated with the mobile telephone in association with the access code.

[0069] The processor circuit may be operably configured to cause the routing controller to establish communication only if the caller identifier associated with the access code identifies the mobile telephone.

[0070] The processor circuit may be operably configured to store the callee identifier in association with the access code.

[0071] The processor circuit may be operably configured to search the pool of access codes for an access code associated with the callee identifier to identify the channel usable by the mobile telephone to initiate a call to the callee.

[0072] The processor circuit may be operably configured to store, in association with the access code, a timestamp for use in determining when the usability of the access code to initiate a call to the callee will expire.

[0073] The processor circuit may operably configured to establish communication only if the usability of the access code to initiate a call to the callee has not expired.

[0074] The provisions for transmitting may include a non-voice network interface for transmitting the access code reply message on a non-voice network.

[0075] In accordance with another aspect, there is provided a system for enabling a mobile telephone to initiate a call to a callee through a channel. The system includes a processor circuit, a network interface in communication with the processor circuit, and a computer readable medium in communication with the processor circuit and encoded with codes for directing the processor circuit to: receive from the mobile telephone an access code request message including a callee identifier associated with the callee; communicate with the routing controller to obtain from the routing controller an access code identifying the channel, the access code being different from the callee identifier and useable by the mobile telephone to initiate a call to the callee using the channel; and cause an access code reply message including the access code to be transmitted to the mobile telephone.

[0076] The network interface may include a non-voice network interface, and the codes for directing the processor circuit to receive may include codes for directing the processor circuit to cause the access code request message to be received using the non-voice network interface on a non-voice network.

[0077] The computer readable medium may be further encoded with codes for directing the processor circuit to cause the access code to be produced.

[0078] The codes for directing the processor circuit to cause the access code to be produced may cause the access code to be selected from a pool of access codes, where each access code in the pool of access codes identifies a respective telephone number.

[0079] The computer readable medium may be further encoded with codes for directing the processor circuit to cause to be determined a local calling area associated with the mobile telephone.

[0080] The codes for directing the processor circuit to cause to be determined may cause a dialing profile associated with the caller to be accessed, the dialing profile including a location field having contents identifying at least a default location of the caller.

[0081] The codes for directing the processor circuit to cause to be determined may cause to be received an IP address of the mobile telephone in a wireless IP network.

[0082] The codes for directing the processor circuit to cause to be determined may cause to be received an identifier of a wireless voice signal station in wireless communication with the mobile telephone.

[0083] The codes for directing the processor circuit to cause to be determined may cause to be received a user-configured identifier of a location associated with the mobile telephone.

[0084] The codes for directing the processor circuit to cause the access code to be produced may further cause to be selected an access code in the local calling area associated with the mobile telephone.

[0085] Each access code in the pool of access codes may further identify a respective channel operably configured to cooperate with an IP network to cause a call involving the mobile telephone and the callee to be routed through the IP network.

[0086] The computer readable medium may be further encoded with codes for directing the processor circuit to cause communication through the IP network to be established in response to a call received on the channel.

[0087] The codes for directing the processor circuit to cause the access code to be produced may cause a caller identifier associated with the mobile telephone to be stored in association with the access code.

[0088] The codes for directing the processor circuit to cause communication to be established may cause communication to be established only if the caller identifier associated with the access code identifies the mobile telephone.

[0089] The codes for directing the processor circuit to cause the access code to be produced may cause the callee identifier to be stored in association with the access code.

[0090] The codes for directing the processor circuit to cause the access code to be produced may cause the pool of access codes to be searched for an access code associated with the callee identifier to identify the channel usable by the mobile telephone to initiate a call to the callee.

[0091] The codes for directing the processor circuit to cause the access code to be produced may cause a timestamp for use in determining when the usability of the access code to initiate a call to the callee will expire, to be stored in association with the access code.

[0092] The codes for directing the processor circuit to cause communication to be established may cause communication to be established only if the usability of the access code to initiate a call to the callee has not expired.

[0093] The network interface may include a non-voice network interface, and the codes for directing the processor circuit to transmit include codes for directing the processor circuit to cause the access code reply message to be transmitted using the non-voice network interface on a non-voice network.

[0094] In accordance with another aspect, there is provided a computer readable medium encoded with codes for directing a processor circuit to: receive from the mobile telephone an access code request message including a callee identifier associated with the callee; communicate with the routing controller to obtain from the routing controller an access code identifying the channel, the access code being different from the callee identifier and useable by the mobile telephone to initiate a call to the callee using the channel; and cause an access code reply message including the access code to be transmitted to the mobile telephone.

[0095] Other aspects and features will become apparent to those ordinarily skilled in the art upon review of the following description of specific embodiments of the invention in conjunction with the accompanying figures.

BRIEF DESCRIPTION OF THE DRAWINGS

[0096] In drawings which illustrate embodiments,

[0097] Figure 1 is a block diagram of a system for enabling a mobile telephone to initiate a call through a channel to a callee in accordance with a first embodiment in the invention;

[0098] Figure 2 is a block diagram of mobile telephone shown in Figure 1;

[0099] Figure 3 is a flow chart of a process executed by the mobile telephone shown in Figure 1;

[0100] Figure 4 is a schematic representation of an access code request message transmitted between the mobile telephone and an access server shown in Figure 1;

[0101] Figure 5 is a schematic representation of an access code reply message transmitted between the mobile telephone and the access server shown in Figure 1;

[0102] Figure 6 is a block diagram of the access server shown in Figure 1;

[0103] Figure 7 is a flow chart of a process executed by the access server shown in Figure 1;

[0104] Figure 8 is a block diagram of a routing controller shown in Figure 1;

[0105] Figure 9 is a tabular representation of a dialing profile stored in a database accessible by the routing controller illustrated in Figure 1;

[0106] Figure 10 is a tabular representation of an access code association table stored in memory accessible by the routing controller shown in Figure 1;

[0107] Figure 11 is a schematic representation of a DID bank table record stored in a database shown in Figure 1;

[0108] Figure 12 is a flow chart of a process executed by the routing controller illustrated in Figure 1;

[0109] Figure 13 is a block diagram of a gateway shown in Figure 1;

[0110] Figure 14 is a tabular representation of an SIP invite message transmitted between the gateway and a call controller illustrated in Figure 1;

[0111] Figure 15 is a block diagram of the call controller illustrated in Figure 1;

[0112] Figure 16 is a flow chart of a process executed by the call controller illustrated in Figure 1;

[0113] Figure 17 is a tabular representation of an RC request message transmitted between the call controller and the routing controller illustrated in Figure 1;

[0114] Figures 18A-18C are a flow chart of a process executed by the routing controller illustrated in Figure 1; and

[0115] Figure 19 is a tabular representation of a gateway node association table stored in the database illustrated in Figure 1.

DETAILED DESCRIPTION OF CERTAIN EMBODIMENTS

[0116] Referring to Figure 1, a system for enabling a mobile telephone to initiate a call to a callee is shown generally at 10. The system 10 includes a first node 11, a second node 21, and a mobile telephone 12.

[0117] The first and second nodes 11 and 21 in the illustrated embodiment may support "voice-over-IP" (VoIP) calls between telephones and/or videophones using the Internet Protocol (IP), as described in PCT Publication No. WO 2008/052340, which is hereby incorporated by reference in its entirety herein. In the embodiment shown, the first node 11 is located in a geographical area, such as Vancouver, British Columbia, Canada, for example, and the second node 21 is located in London, England, for example. Different nodes may be located in different geographical regions throughout the world to provide telephone/videophone service to subscribers in respective regions. These nodes may be in communication with each other by high speed/high data throughput links including optical fiber, satellite, and/or cable links illustrated generally at 17, forming a backbone to the system. These nodes may alternatively, or in addition, be in communication with each other through conventional internet services.

[0118] In the embodiment shown, the first node 11 provides telephone/videophone service to western Canadian customers from Vancouver Island to Ontario. Another node (not

shown) may be located in Eastern Canada to provide services to subscribers in that area, for example.

[0119] Other nodes of the type shown may also be employed within the geographical area serviced by a node to provide for call load sharing, for example, within a region of the geographical area serviced by the node. However, in general, all nodes may be similar and have the properties described in connection with the first node 11.

[0120] In this embodiment, the first node 11 includes a call controller (CC) 13, an access server 14, a routing controller (RC) 30, a database 23, a voicemail server 19, and a media relay 28. Each of these may be implemented as separate modules on a common computer system or by separate computers, for example. The voicemail server 19 need not be included in the node and can be provided by a third party service provider. Although the access server 14 is illustrated as being part of the first node 11, access servers in alternative embodiments may be separate from the node and may be in communication with one or more nodes, for example.

[0121] The mobile telephone 12 is configured to place calls over a mobile telephone network, illustrated generally at 15, in a manner well-known in the art. Furthermore, the mobile telephone 12 and the access server 14 are configured to communicate with each other, preferably on a non-voice network illustrated generally at 16, such as a "WiFi" wireless IP network or a General Packet Radio Service (GPRS) network, for example. However, in alternative embodiments, the mobile telephone 12 and the access server 14 may communicate with each other over other networks, such as a mobile telephone network using Short Message Service (SMS) messages, for example.

[0122] The system 10 further includes a gateway 18 in communication with at least one, and preferably a plurality of, channels, which are illustrated schematically at 20, 22, and 24, to which the mobile telephone 12 may initiate a call over the mobile telephone network 15. The channels 20, 22, and 24 maybe telephone lines in a Public Switched Telephone Network (PSTN) 29. The channels 20, 22, and 24 maybe associated with PSTN telephone numbers in a local calling area associated with the mobile telephone 12, and thus these channels preferably depend on a geographical location of the mobile telephone. The expression "local calling area" herein refers generally to a set of telephone numbers, typically

defined by a geographical region, to which telephone calls may be placed by callers within the local calling area at either no additional charge or at a lower additional charge than would be required for calls to numbers that are outside of the local calling area. However, it will be appreciated that in other embodiments, the gateway 18 may be in communication with any number of channels, which need not be PSTN telephone lines. Also, in the illustrated embodiment, the channels 20, 22, and 24 are associated with telephone numbers for Vancouver, British Columbia, Canada and the surrounding area, although it will be appreciated that these channels may include PSTN telephone lines associated with other areas, for example, which may not necessarily be in a local calling area associated with the mobile telephone 12.

[0123] In the illustrated embodiment, each of the channels 20, 22, and 24 is configured by a PSTN service provider (which, in Canada, may be Bell Canada or Telus, for example) to direct calls that are received on the channels to the gateway 18. In the illustrated embodiment, the PSTN service provider has configured the channels 20, 22, and 24 to communicate with a T1 multiplexer 25, which multiplexes the channels 20, 22, and 24 in a manner known in the art onto one or more T1 lines 27 that are in communication with the gateway 18. The gateway 18 is in communication with an IP network shown generally at 26. The channels 20, 22, and 24 are thus configured to cooperate with the IP network 26 (via the gateway 18 in the illustrated embodiment) to cause a call involving the mobile telephone 12 and the callee to be routed through the IP network in response to a call received at one of the channels.

[0124] Also, in the illustrated embodiment, the access server 14 is in communication with the routing controller 30 of the first node 11, and the routing controller 30 is configurable to associate a callee identifier with one of the channels 20, 22, and 24, as described below. A callee identifier associated with one of the channels 20, 22, and 24 may be a telephone number of a PSTN telephone 32 that is in communication with the IP network 26 through a gateway 34, or it may be a telephone number of a VoIP telephone 36 that is directly in communication with the IP network 26, for example. Other routing controllers 30 of other nodes, such as the second node 21, for example, may also associate callee identifiers with other channels that are in communication with other gateways (not shown).

Mobile Telephone

[0125] Referring to Figure 2, in this embodiment, the mobile telephone (12) includes a processor circuit shown generally at 50. The processor circuit 50 includes a microprocessor 52, a program memory 54, an input/output (I/O) port 56, parameter memory 58, and temporary memory 60. The program memory 54, I/O port 56, parameter memory 58, and temporary memory 60 are all in communication with the microprocessor 52. The processor circuit 50 may alternatively include a plurality of processors, a plurality of program memories, a plurality of temporary memories, and/or a plurality of I/O ports, or these components may alternatively be combined into a single device. However, for simplicity, the components of the processor circuit 50 are illustrated as shown in the example of Figure 2.

[0126] In the illustrated embodiment, the I/O port 56 includes a dialing input 62 for receiving a callee identifier from a key pad, for example, or from a voice recognition unit, or from pre-stored callee identifiers stored in the parameter memory 58, for example. For illustration purposes only, a myriad of possible dialing functions for providing a callee identifier are represented by the block entitled dialing function 64. A callee identifier may be a telephone number of a callee, for example.

[0127] The I/O port 56 also includes a handset interface 66 for receiving and producing signals to and from a handset 68 that may be placed close to the user's ear and mouth, for producing and receiving audible signals for and from the user. It will be appreciated that alternatively, the handset 68 may include a camera and video screen, for example, and that video or other types of signals may be transmitted additionally or alternatively to audible signals.

[0128] The I/O port 56 also includes a non-voice network interface 70 for transmitting information to, and receiving information from, the non-voice network 16 illustrated in Figure 1, for example, and preferably interfaces with a high-speed internet connection.

[0129] The I/O port 56 in the illustrated embodiment further includes a mobile telephone network interface 72 for transmitting signals to and receiving signals from a mobile telephone service provider over a network such as a Global System for Mobile

communications (GSM) or a Code Division Multiple Access (CDMA) network, such as the mobile telephone network 15 illustrated in Figure 1, for example. Again, for simplicity, a mobile telephone network interface is illustrated, although it will be appreciated that video signals or other signals may be handled similarly when the mobile telephone (12) is facilitating communication of one or more of these types of signals. It will also be appreciated that alternatively, the non-voice network interface 70 and mobile telephone network interface 72 need not be distinct, but may be a single interface for communication over a single network, for example, or may be configured to communicate over a plurality of different networks, for example.

[0130] In the illustrated embodiment, the parameter memory 58 includes a username field 74 and a password field 76, although it will be appreciated that the username and password may not be necessary, or may be input by the user as required, for example. The parameter memory 58 in the illustrated embodiment also includes a caller identifier field 78 for storing a caller identifier, which may be a telephone number associated with the mobile telephone (12) for identifying a "channel" such as a telephone line assigned to the mobile telephone that may be used to call back to the mobile telephone, for example. Generally, the contents of the username field 74, the password field 76, and the caller identifier field 78 are set once when the user first subscribes to the system.

[0131] The usernames referred to herein, such as the username in the username field 74, preferably include a twelve digit number such as 2001 1050 8667, for example, wherein the left-most digit is a continent code (such as "2" to indicate North America, for example), followed by a three-digit country code (such as "001" to indicate Canada and the United States, for example), a four-digit dealer code (such as "1050", for example), and a unique four-digit number code (such as "8667", for example), as discussed more generally in PCT Publication No. 2008/052340. Therefore, a prefix of a username referred to herein preferably indicates a geographical region associated with the user, or with the access code, and more preferably indicates a node associated with the user or access code.

[0132] The program memory 54 stores blocks of codes for directing the microprocessor 52 to carry out the functions of the mobile telephone (12), which are illustrated by example below.

[0133] Referring to Figures 2 and 3, a flow chart representing functions performed by blocks of code that direct the microprocessor 52 to initiate a call with the mobile telephone 12 to a callee is shown generally at 100. The blocks shown in Figure 3 generally represent codes that may be stored in the program memory 54 for example, for directing the microprocessor 52 to perform various functions relating to initiating a call with the mobile telephone (12) to a callee. The actual code to implement each block may be written in any suitable programming language, such as Java, C, and/or C++, for example.

[0134] The process 100 begins at 102, in response to an interrupt produced at or for the microprocessor 52 by the dialing function 64. Upon initiation of the process 100, block 104 directs the microprocessor 52 to obtain a callee identifier from the dialing function 64 at the dialing input 62 of the I/O port 56 in the illustrated embodiment. The callee identifier is associated with a desired callee, and may be a telephone number of the callee, for example. The microprocessor 52 thus receives, from a user of the mobile telephone (12), a callee identifier associated with a callee.

[0135] Block 106 directs the microprocessor 52 to transmit, using the non-voice network interface 70 in the illustrated embodiment, an access code request message, the access code request message including the callee identifier obtained at block 104, to the access server 14 (illustrated in Figure 1). In general, preferably block 106 directs the microprocessor 52 to cause an access code request message to be transmitted to the access server 14 over a non-voice network, such as an internet, using WiFi or GPRS technology for example. However, it will be appreciated that block 106 may direct the microprocessor 52 to transmit an access code request message to the access server 14 using any suitable technique, which may alternatively include a voice network, for example.

[0136] Referring to Figure 4, an exemplary access code request message is shown generally at 110. The access code request message 110 includes a username field 112, a password field 114, a callee identifier field 116, and a caller identifier field 118. In the illustrated embodiment, values for the username, password, and caller identifier fields 112, 114, and 118 are retrieved from the username, password, and caller identifier fields 74, 76, and 78 respectively in the parameter memory 58 of the processor circuit 50 (illustrated in Figure 2), and a value for the callee identifier field 116 is obtained from the dialing function 64

in block 104, and may be stored in the temporary memory (60), for example. It will be appreciated that the username field 112, password field 114, and caller identifier field 118 are not essential, although these fields are preferable in order to identify the user of the mobile telephone for billing purposes, for example.

[0137] Referring to Figures 1 and 4, it will be appreciated that in order to minimize charges from the mobile telephone service provider of the mobile telephone 12, the channels 20, 22, 24 will preferably be local or relatively inexpensive telephone lines associated with a geographical location, more particularly a pre-defined local calling area, associated with the mobile telephone 12. Therefore, the exemplary access code request message 110 further includes a location identifier field 119. The location identifier stored in the location identifier field 119 preferably identifies a location of the mobile telephone 12 for use in determining a local calling area associated with the mobile telephone 12.

[0138] For example, the location identifier in the location identifier field 119 may include an IP address of the mobile telephone 12 in a wireless IP network, such as the non-voice network 16 to which the non-voice network interface 70 shown in Figure 2 is connected, because this IP address may be an indicator of a geographical location of the mobile telephone 12. The location identifier may also or alternatively include an identifier of a wireless voice signal station in wireless communication with the mobile telephone. In the illustrated embodiment, the wireless voice signal station is part of the mobile telephone network 15 that is in communication with the mobile telephone 12 through the mobile telephone network interface 72 illustrated in Figure 2. In still other embodiments, the location identifier may include a user-configured identifier of a geographical location or local calling area where the mobile telephone 12 is or may be situated. The location identifier may thus be pre-determined and stored in the parameter memory 58 shown in Figure 2 or may be acquired from non-voice network or wireless voice signal station or from user input, for example. Therefore, in summary, the location identifier in the location identifier field 119 may include one or more of an IP address of the mobile telephone 12 in a wireless IP network, an identifier of a wireless voice signal station in wireless communication with the mobile telephone, and a user-configured identifier.

[0139] As described below, the location identifier in the location identifier field 119 may be used to determine a local calling area associated with the mobile telephone 12, within which local calling area channels (illustrated as 20, 22, and 24 in Figure 1) are available to the mobile telephone 12 for the lowest cost to the user. However, it will be appreciated that the location identifier may only approximately identify a local calling area, and may not necessarily identify the lowest cost channel (illustrated as 20, 22, and 24 in Figure 1) for the mobile telephone 12. It will also be appreciated that in other embodiments, the location identifier field 119 may be omitted.

[0140] Referring back to Figure 3, the process 100 continues at block 130, which directs the microprocessor (52) to receive an access code reply message from the access server (14) in response to the access code request message that was transmitted at block 106.

[0141] Referring to Figure 5, an exemplary access code reply message is shown generally at 140. The access code reply message 140 includes an access code field 142 and a timeout field 144. In the illustrated embodiment, the access code field 142 stores an access code which is a telephone number associated with a telephone line associated with one of the channels 20, 22, or 24 in Figure 1. It will be appreciated that the access code is different from the callee identifier in the callee identifier field 116 shown in Figure 4, in that the access code identifies a channel, other than that provided by the callee identifier provided by the dialing function 64 in Figure 2, that the mobile telephone (12) can use to initiate a call to the callee. It will be appreciated that use of the access code facilitates avoidance of long distance or roaming charges that a mobile telephone service provider would charge for a call placed directly using the callee identifier using conventional calling processes, for example.

[0142] Still referring to Figure 5, the timeout field 144 in the illustrated embodiment stores a value that indicates a period of time, for example a number of minutes, during which the access code in the access code field 142 is associated with the callee identifier in the callee identifier field 116 of the exemplary access code request message 110 illustrated in Figure 4, such that the access code is only temporarily associated with the callee identifier. In one embodiment, the value stored in the timeout field 144 indicates 10 minutes, for example. It will be appreciated that in other embodiments, the timeout field 144 may not be necessary, but preferably it is included.

[0143] In the illustrated embodiment, the program codes in block 130 direct the microprocessor 52 to receive the access code reply message over a non-voice network, such as a WiFi or GPRS network (illustrated at 16 in Figure 1) via the non-voice network interface 70 shown in Figure 2. However, it will be appreciated that the access code reply message may be received on any suitable network, even a voice network, for example.

[0144] Referring back to Figures 2 and 3, block 149 directs the microprocessor 52 to initiate a call with the mobile telephone (12) on the mobile telephone network 15 (illustrated in Figure 1) using the access code received in the access code field 142 of the access code reply message 140 (shown in Figure 5) to identify the callee. In the illustrated embodiment, the codes in block 149 direct the microprocessor 52 to initiate a call to the channel (20, 22, or 24) identified by the access code, using the mobile telephone network interface 72 of the I/O port 56 of the mobile telephone (12), to engage the mobile telephone network (15).

[0145] Referring to Figure 1, in the embodiment shown, the access code in the access code field (142) is a telephone number identifying a channel 20, 22, or 24 that is in communication with the gateway 18 to the IP network 26. Through the gateway 18, the channel 20, 22, or 24 is thus operably configured to cooperate with the IP network 26 to cause a call from the mobile telephone 12 to the callee to be routed through the IP network. Routing the call through the IP network may involve engaging the routing controller 30 to route the call on the IP network 26 to the callee, as described below. However, it will be appreciated that in other embodiments, the access code need not be a telephone number, but may be any code identifying a channel through which the mobile telephone 12 can initiate a call. Alternatively, if the mobile telephone is capable of voice over IP communications, the access code may be used to identify an IP address in the IP network to which the call is routed. In this embodiment, the IP address may act as the access code. The process 100 shown in Figure 3 is then ended.

Access Server

[0146] Referring to Figure 6, the access server (14) includes a processor circuit shown generally at 150. The processor circuit 150 includes a microprocessor 152, program

memory 154, an I/O port 156, parameter memory 158, and temporary memory 160. The program memory 154, I/O port 156, parameter memory 158, and temporary memory 160 are all in communication with the microprocessor 152. The processor circuit 150 may alternatively include a plurality of microprocessors or I/O ports, for example, and the components of the illustrated processor circuit 150 may also alternatively be combined into a single device.

[0147] The program memory 154 stores blocks of codes for directing the microprocessor 152 to carry out the functions of the access server 14. The I/O port 156 includes a non-voice network interface 162 for communicating with the non-voice network 16 illustrated in Figure 1. The I/O port 156 also includes a routing controller interface 164 for interfacing with the routing controller 30 illustrated in Figure 1.

[0148] Referring to Figures 6 and 7, a flow chart of blocks of code for directing the microprocessor 152 of the access server (14) to provide an access code to the mobile telephone (12) is shown generally at 190. The blocks 190 in Figure 7 generally represent codes that may be stored in the program memory 154 for directing the microprocessor 152 to perform various functions to provide the access to the mobile telephone (12) to enable the mobile telephone to place a call through a channel (20, 22, or 24).

[0149] The process 190 begins at 192, in response to an interrupt created by or for the microprocessor 152 when it receives an access code request message 110 (as illustrated in Figure 4) from the mobile telephone (12). In the illustrated embodiment, the access code request message (110) is received via the non-voice network interface 162 through a non-voice network (16) such as a WiFi or GPRS network, for example. However, it will be appreciated that other embodiments may use different techniques for receiving the access code request message (110) from the mobile telephone (12).

[0150] The process 190 continues at block 196, which directs the microprocessor 152 to communicate with the routing controller 30 to obtain from the routing controller an access code identifying a channel (illustrated as 20, 22, or 24 in Figure 1) in communication with the gateway (18), wherein the access code is different from the callee identifier in the callee identifier field 116 (shown in Figure 4) and is usable by the mobile telephone (12) to initiate a call to the callee using the channel, as further described below. Therefore, block 196

preferably causes an access code to be produced by retransmitting the access code request message 110 illustrated in Figure 4 that was received at 192 from the mobile telephone (12), to the routing controller 30 through the routing controller interface 164 of the I/O port 156.

[0151] The process 190 continues at block 198, which directs the microprocessor 152 to transmit an access code reply message (140), including the access code obtained by block 196, to the mobile telephone (12). An exemplary access code reply message is shown in Figure 5. In the illustrated embodiment, an access code reply message (140) is produced by the routing controller 30 in a manner described below in response to the access code request message (110) that was transmitted to the routing controller at block 196, and the access code reply message (140) is received from the routing controller through the routing controller interface 164 of the I/O port 156. Block 198 then causes the access code reply message that was received from the routing controller to be retransmitted to the mobile telephone (12). In the illustrated embodiment, the codes in block 198 direct the microprocessor 152 to transmit the access code reply message (140) using the non-voice network interface 162 to the non-voice network 16, which may be a WiFi or GPRS network, for example. However, it will be appreciated that other embodiments may employ other types of networks for communicating the access code reply message (140) to the mobile telephone (12). The process 190 is then ended.

[0152] In summary, referring to Figure 1, the access server 14 generally acts as an interface to the routing controller 30 for relaying access code request messages and access code reply messages between the mobile telephone 12 and the routing controller. Therefore, it will be appreciated that in alternative embodiments, the access server 14 and the routing controller 30 need not be separate, but may, for example, be combined in a single component.

Routing Controller (RC)

[0153] Referring to Figure 1, generally, the routing controller 30 executes a process to facilitate communication between callers and callees. The function of a routing controller generally in a VoIP system is described in PCT Publication No. WO 2008/052340.

[0154] Referring to Figure 8, the routing controller (30) includes a processor circuit shown generally at 230. The processor circuit 230 includes a microprocessor (or more

generally a processor) 232, program memory 234, an I/O port 236, table memory 238, temporary memory 240, and a clock 244. The program memory 234, I/O port 236, table memory 238, temporary memory 240, and clock 244 are all in communication with the processor 232. The processor circuit 230 may include a plurality of microprocessors, for example, and the aforementioned components of the processor circuit 230 may be combined, for example. The program memory 234 includes blocks of code for directing the processor 232 to carry out the functions of the routing controller (30), and the I/O port 236 includes an access server interface 242 for communicating with the access server 14.

[0155] In the illustrated embodiment as described above, the access server (14) transmits (at block 196 illustrated in Figure 7) an access code request message (110) to the routing controller (30) in order to obtain from the routing controller (30) an access code. When an access code request message (110) is received at the access server interface 242, the processor 232 preferably stores certain values from the access code request message in stores in the temporary memory 240 for ease of retrieval. In particular, the temporary memory 240 includes a callee identifier store 246 for storing the callee identifier from the callee identifier field 116 in the access code request message 110 illustrated in Figure 4, a caller identifier store 248 for storing the caller identifier that was stored in the caller identifier field 118 of the access code request message 110 illustrated in Figure 4, a caller username store 249 for storing the caller username that was stored in the caller username field 112 of the access code request message 110 illustrated in Figure 4, and an access code store 250 for storing an access code that is selected when the routing controller (30) receives an access code request message (110). The temporary memory 240 also includes a local calling area identifier store 245 for storing an identifier of a local calling area associated with the mobile telephone (12). The clock 244 generally maintains and stores a representation of a current date and time.

[0156] The I/O port 236 further includes a database request port 256 through which a request to the database (23 in Figure 1) can be made, and also includes a database response port 258 for receiving a reply from the database (23). The I/O port 236 further includes a routing controller (RC) request message input 260 for receiving an RC request message (illustrated in Figure 17) from the call controller (13 in Figure 1) and includes a routing message output 262 for sending a routing message back to the call controller 13. The

I/O port 236 thus acts to receive a caller identifier and a callee identifier contained in an RC request message from the call controller, the RC request message being received in response to initiation of a call by a subscriber of the system, as described below.

[0157] The program memory 234 includes blocks of codes for directing the processor 232 to carry out various functions of the routing controller (30). One of these blocks includes an RC request message handler 380 which directs the routing controller (30) to produce a routing message in response to a received RC request message, an example of which is illustrated in Figure 17. The RC request message handler process is shown in greater detail at 380 in Figures 18A through 18C. Another of these blocks in the program memory 234 includes an access code generator, which is described at 270 in Figure 12, and which directs the routing controller (30) to produce an access code as directed by the program codes in block 196 shown in Figure 7. Yet another of these blocks in the program memory 234 includes a local calling area identifier generator, which directs the routing controller (30) to produce a local calling area identifier using the location identifier from the location identifier field 119 of the access code request message 110 illustrated in Figure 4.

Local Calling Area Identifier Generator

[0158] Referring to Figure 1, it will be appreciated that preferably, a call made by the mobile telephone 12 using the access code obtained from the access server 14 will be a local call for the mobile telephone 12, based on a geographical location of the mobile telephone. Therefore, blocks in the program memory 234 include a local calling area identifier generator, which directs the routing controller 30 to produce a local calling area identifier.

[0159] For example, the local calling area identifier generator may direct the microprocessor 152 to access a dialing profile associated with the caller. The dialing profile may be identified using the username in the username field 112 in the access code request message 110 illustrated in Figure 4, and to store in the local calling area identifier field 245 a default location of the caller retrieved from the dialing profile associated with the caller.

[0160] Referring to Figure 9, an exemplary dialing profile is illustrated generally at 200 and includes a username field 202, a domain field 204, and calling attributes comprising a national dialing digits (NDD) field 206, an international dialing digits (IDD) field 208, a

country code field 210, a local area codes field 212, a caller minimum local number length field 214, a caller maximum local number length field 216, a reseller field 218, a maximum number of concurrent calls field 220, a current number of concurrent calls field 222, and a default local calling area identifier field 224. Therefore, in some embodiments, the local calling area identifier generator directs the microprocessor 152 to determine a local calling area associated with the mobile telephone (12) by retrieving the default local calling area identifier from the default local calling area identifier field 224 of the dialing profile 200.

[0161] Effectively, the dialing profile 200 is a record identifying calling attributes of the caller identified by the username in the username field 202. More generally, dialing profiles 200 represent calling attributes of respective users, and are discussed in more detail in PCT publication No. WO 2008/052340. As described in PCT publication No. WO 2008/052340, a dialing profile of the type shown in Figure 9, and also other records such as direct-in-dial (DID) records, call blocking records, call forwarding records, and voicemail records, may be created whenever a user registers with the system or agrees to become a subscriber to the system.

[0162] Alternatively, the local calling area identifier generator may generate a local calling area identifier to be stored in the local calling area identifier store 245 using the location identifier from the location identifier field 119 of the access code request message 110 illustrated in Figure 4. As described above, the location identifier field (119) may store one or more of an IP address of the mobile telephone (12) in a wireless IP network, an identifier of a wireless voice signal station in wireless communication with the mobile telephone, and a user-configured identifier. One or more of these values may be used to identify a local calling area that is or is likely to be associated with the mobile telephone (12) in order to generate a local calling area identifier to be stored in the local calling area identifier store 245.

[0163] For example, it has been found that services available from web sites such as http://www.ip2location.com/ and http://www.serviceobjects.com/products/dots_ipgeo.asp, for example, can produce a name of a location, and also latitude and longitude values, associated with an IP address. Using this information derived from an IP address, or other information from the location identifier field (119), a local calling area may be identified by

hierarchical jurisdictional designations (such as country, province, and city in Canada or country, state, and city in the United States) and encoded as codes identifying the local calling area. These codes may then be stored in the local calling area identifier store 245.

Access Code Association Table

[0164] In the illustrated embodiment, the table memory 238 (shown in Figure 8) includes an access code association table 170, an example of which is illustrated in Figure 10, for associating access codes with callee identifiers, caller identifiers, caller usernames, timeouts, and timestamps. Although the routing controller (30) is illustrated in this embodiment as a separate component from the access server (14), it will be appreciated that in other embodiments, the routing controller (30) may be part of or integrated with the access server (14), and in these other embodiments, the access code association table 170 may be part of or integrated with the access server.

[0165] Referring to Figures 1 and 10, the access code association table 170 generally includes a plurality of records, each having an access code field 173 storing an access code. The access codes in the access code association table 170 may thus form a pool of access codes, where each access code may identify a respective telephone number. In the illustrated embodiment, the access codes in the access code fields 173 of records of the access code association table 170 identify respective channels (illustrated by example only as 20, 22, and 24) that are operably configured to cooperate with the IP network 26 via the gateway 18 to cause a call involving the mobile telephone 12 to be routed through the IP network.

[0166] Referring to Figure 10, the exemplary access code association table 170 includes records 172, 174, 176, 178, and 180, each having respective fields for storing a local calling area identifier 171, an access code 173, a channel identifier 175, a callee identifier 177, a caller identifier 179, a caller username 183, a timeout 181, and a timestamp 182. Generally, a record in the access code association table 170 will be created for each access code that identifies a channel (such as the channels 20, 22, and 24 illustrated in Figure 1) that is configured or configurable to establish communication through a gateway (such as the gateway 18 illustrated in Figure 1) to an IP network (26 in Figure 1) in response to a call received at the channel. When a record is created in respect of a channel, the local calling area

identifier field 171 is preferably initialized with an identifier of a local calling area associated with the channel, the access code field 173 is preferably initialized with an access code associated with the channel, and the channel identifier field 175 is preferably initialized with an identifier of the channel. The remaining fields (for storing a callee identifier 177, a caller identifier 179, a caller username 183, a timeout 181, and a timestamp 182) are preferably initialized with default "null" values when a record is created. The fields for storing a local calling area identifier 171, an access code 173, a channel identifier 175 preferably remain generally constant during ordinary operation of the access code association table 170, although the values stored in the fields for storing a callee identifier 177, a caller identifier 179, a caller username 183, a timeout 181, and a timestamp 182 may vary as described below. It will be appreciated that in some embodiments, one or more of the fields for storing a local calling area identifier 171, a channel identifier 175, a caller identifier 179, a caller username 183, a timeout 181, and a timestamp 182 may not be required and be omitted.

[0167] As noted above, the local calling area identifier field 171 is preferably initialized with an identifier of a local calling area associated with the channel. The local calling area identifier field 171 preferably stores codes that are encoded in the same manner as the codes in the local calling area identifier store 245, as described above, so that an access code in the local calling area identified by the codes in the local calling area identifier store 245 may be identified by searching the access code association table 170 for an access code associated with a local calling area identifier in the associated local calling area identifier field 171 that matches the local calling area identifier in the local calling area identifier store 245. It has been found that information available from web sites such as http://en.wikipedia.org/wiki/List_of_NANP_area_codes, and services available from web sites such as http://www.serviceobjects.com/demos/PhoneExchangeDemo.asp, for example, may be used to determine a local calling area identifier associated with a given access code where, for example, the access code is a PSTN telephone number.

[0168] In the exemplary access code association table 170, the access codes in the access code fields 173 are telephone numbers for PSTN lines, three of which are in the 604 area code in Vancouver, British Columbia, Canada, and two of which are in the 416 area code in Toronto, Ontario, Canada. It will be appreciated that the access code association table 170

is an example only, and other access code association tables may include any number of access codes, which need not be PSTN telephone numbers, and which need not be limited to particular geographical areas.

[0169] In the exemplary access code association table 170, the access code field 173 in the record 174 stores an access code 1-604-345-2323, which may be a local telephone number for Vancouver, British Columbia, Canada, and the callee identifier field 177 of the record 174 stores a callee identifier 1-403-789-1234, which may be a telephone number for a callee in Calgary, Alberta, Canada for example, thereby associating the callee identifier 1-403-789-1234 with the access code 1-604-345-2323. Furthermore, the caller identifier field 179 of the record 174 stores a caller identifier 1-416-444-1441 and the caller username field 183 stores a caller username 2001 1050 8667, thereby associating the caller identifier 1-416-444-1441 and caller username 2001 1050 8667 with the aforementioned access code and callee identifier. The caller identifier 1-416-444-1441 may be associated with a mobile telephone normally geographically located in Toronto, Ontario, Canada, but which may be in Vancouver and is therefore using a Vancouver-based access code to place a call to a Calgary-based number, for example. In the example record 174, the timestamp field 182 indicates that the callee identifier 1-403-789-1234, the caller identifier 1-416-444-1441, and the caller username 2001 1050 8667 were associated with the access code 1-604-345-2323 on June 15, 2008 at 10:31 am, and the timeout field 181 indicates that this association is to expire 10 minutes after the time indicated in the timestamp field.

[0170] Likewise, the exemplary record 178 indicates that the callee identifier 1-604-321-1234, the caller identifier 1-416-444-1234, and the caller username 2001 1050 4141 were associated with the access code 1-416-234-4646 on June 15, 2008 at 2:21 pm, and the timeout field 181 of the record 178 indicates that this association is to expire within 10 minutes of the time in the timestamp field 182.

[0171] It will also be appreciated that the access code association table 170 may, in other embodiments, be substituted with other data structures or storage media. For example, in alternative embodiments, as described below, a DID record of the type shown at 370 in Figure 11 may associate an access code with a callee identifier and with other

information such as a caller identifier, a timeout value, and a timestamp value, additionally or alternatively to the access code association table 170.

DID Bank Table Records

[0172] As described in PCT Publication No. 2008/052340, a DID bank table record may be created and stored in a DID bank table in the database (23 in Figure 1) when a user registers with the system, to associate the username of the user and a host name of the node with which the user is associated, with a number on the PSTN network formatted in compliance with the E.164 standard set by the International Telecommunication Union (ITU). However, as explained below, DID records may, in some embodiments, also associate usernames and host names with respective access codes, and may also associate access codes with respective callee identifiers and with other information such as caller identifiers, timeout values, and timestamp values.

[0173] Referring to Figure 11, an exemplary DID bank table record is shown generally at 370, and includes a username field 371, a user domain field 372, and a DID field 373. The username field 371 may store a username of a user of the system, in which case the user domain field 372 stores a host name of the node with which the user is associated, and the DID field 373 stores an E.164 number on the PSTN network associated with the user. Exemplary host names stored in the user domain field 372 include sp.yvr.digifonica.com for Vancouver, British Columbia, Canada and sp.lhr.digifonica.com for London England, for example, as described in PCT Publication No. 2008/052340. If the user has multiple telephone numbers, then multiple records of the type shown at 370 would be included in the DID bank table, each having the same username and user domain, but different DID field 373 contents reflecting the different telephone numbers associated with that user.

[0174] However, DID fields 373 of DID bank table records 370 may also store access codes, in which case the username field 371 may store a username associated with the access code. In these DID bank table records 370, the user domain field 372 stores a host name of the node with which the access code is associated. Therefore, DID bank table records 370 may, in some embodiments, associate usernames and host names with respective access codes.

[0175] The exemplary DID bank table record 370 further includes a callee identifier field 374, a caller identifier field 375, a timeout field 376, a timestamp field 377, a local calling area identifier field 378, a channel identifier field 379, and a caller username field 381, which may be used in an analogous manner to the callee identifier field 177, the caller identifier field 179, the timeout field 181, the timestamp field 182, the local calling area identifier field 171, the channel identifier field 175, and the caller username field 183 respectively of the access code association table 170 illustrated in Figure 10. The DID bank table records 370 may thus associate access codes with respective local calling area identifiers, callee identifiers, caller identifiers, caller usernames, timeouts, and timestamps, although the caller identifier field 375, timeout field 376, timestamp field 377, local calling area identifier field 378, channel identifier field 379, and caller username field 381 may not be necessary, and one or more of these fields may be omitted in some embodiments.

[0176] Furthermore, it will be appreciated that the callee identifier field 374, caller identifier field 375, timeout field 376, and timestamp field 377 of the DID bank table record 370 may be omitted for DID table records that are not in respect of access codes, but rather are in respect of telephone numbers of users of the system, for example, as described in PCT Publication No. 2008/052340. The callee identifier field 374, caller identifier field 375, timeout field 376, and timestamp field 377 of the DID bank table record 370 may also be omitted in embodiments where the access code association table 170 includes records with these types of fields.

[0177] For simplicity, the following description is directed to embodiments wherein an access code association table 170 associates access codes with respective callee identifiers, caller identifiers, timeout values, and timestamp values. However, it will be appreciated that the processes described herein for records in the access code association table 170 may additionally or alternatively be applied to DID bank table records 370 in an analogous manner.

Access Code Generator

[0178] Referring back to Figures 1, 4, and 8 in the illustrated embodiment as described above, the access server 14 transmits (at block 196 illustrated in Figure 7) an access

code request message 110 to the routing controller 30 in order to obtain from the routing controller 30 an access code. When an access code request message 110 is received at the access server interface 242, the processor 232 preferably authenticates the user by making various enquiries of databases to which it has access, to determine whether or not the password in the password field 114 of the access code request message 110 matches a password stored in the database in association with the username in the username field 112. Various functions may be used to pass encryption keys or hash codes back and forth to ensure that the transmittal of passwords is secure. If the user is successfully authenticated, the processor 232 then preferably produces an access code.

[0179] Referring to Figures 8 and 12, a process for producing an access code is shown generally at 270. Essentially the process 270 determines whether the access code in a given record (referred to below as the "currently addressed record") in the access code association table shown at 170 in Figure 10 is within the local calling area identified by the local calling area identifier store 245, and whether the access code is currently available for association with a callee identifier. In order to produce an access code in response to receiving an access code request message (110) from the access server (14), the processor 232 of the routing controller (30) preferably searches the pool of access codes in the access code association table (170) to identify an access code identifying a channel usable by the mobile telephone (12) to initiate a call to the callee, using the process 270 until an available access code in the local calling area identified by the local calling area identifier store 245 is identified. The access code generator thus preferably selects an access code from the pool of access codes in the access code association table (170), and preferably selects an access code in a local calling area associated with the mobile telephone (12).

[0180] Starting with the first record in the access code association table, the process 270 begins at block 272, which directs the processor 232 of the routing controller (30) to determine whether the access code in the currently addressed record of the access code association table 170 is associated with the same local calling area as the mobile telephone (12) as identified by the contents of the local calling area identifier store 245. If at block 272 the access code of the currently addressed record is not associated with the same local calling area as the mobile telephone (12), the process 270 ends, the next record in the

access code association table 170 is addressed, and the process is repeated for the next record in the access code association table.

[0181] However, if at block 272 the access code of the currently addressed record is associated with the same local calling area as the mobile telephone (12), or if the access code request message 110 (illustrated in Figure 4) did not include a local calling area identifier, then the process 270 continues at block 274, which directs the processor 232 to determine whether the access code of the currently addressed record is associated with a callee identifier. To do this, the processor 232 determines whether the callee identifier field (177) of the currently addressed record stores a "null" value that was assigned to it on initialization, or whether the callee identifier field instead stores a callee identifier. In other words the processor checks to see whether the currently addressed record has already been in use.

[0182] If at block 274 the callee identifier field (177) of the currently addressed record in the access code association table (170) does store a callee identifier and not the "null" value that was assigned to the callee identifier field on initialization (for example, records 174 and 178 in Figure 10), then the access code of that record is associated with a callee identifier, and the process 270 continues at block 278, which directs the processor 232 to determine whether the association of the callee identifier with the access code has expired. In the illustrated embodiment, the codes at block 278 direct the processor 232 to determine whether the sum of the contents of the timestamp field (182) and of the timeout field (181) in the currently addressed record of the access code association table 170 (shown in Figure 10) is less than the current time represented by the clock 244. If at block 278 the sum of the timeout and timestamp fields in the currently addressed record of the access code association table 170 is less than the time represented by the clock 244, then the association of the callee identifier with the access code is not expired and the process 270 ends, the next record in the access code association table (170) is addressed, and the process 270 is repeated for the next record in the access code association table.

[0183] However, if at block 278 the sum of the contents of the timeout and timestamp fields (181 and 182) in the currently addressed record of the access code association table (170) is not less than the time represented by the clock 244, then the

association of the callee identifier with the access code has expired, and the process 270 continues at block 276 which directs the processor 232 to store the contents of the access code field 173 of the currently addressed record in the access code store 250 of the temporary memory 240 of the routing controller 30.

[0184] Referring to Figures 8, 10, and 12, if at block 274 the callee identifier field in the currently addressed record does not store a callee identifier but stores instead the "null" value that was assigned to the callee identifier field on initialization (for example, records 172, 176, and 180), then the access code of that record is not associated with a callee identifier, and the process 270 continues at block 276, which directs the processor 232 to store the access code from the access code field 173 of the currently addressed record, in the access code store 250 in the temporary memory 240.

[0185] After the selected access code is stored in the access code store 250 at block 276, the process 270 continues at block 280, which directs the processor 232 to store the callee identifier from the callee identifier store 246 in the callee identifier field 177 of the currently addressed record, thereby creating an association of the callee identifier with the selected access code.

[0186] The process 270 then continues at block 282, which directs the processor 232 to store the caller identifier from the caller identifier store 248 (which identifies the mobile telephone 12 shown in Figure 1) in the caller identifier field 179 of the currently addressed record of the access code association table 170, thereby also storing the caller identifier in association with the selected access code.

[0187] The process 270 then continues at block 283, which directs the processor 232 to store the caller username from the caller username store 249 in the caller username field 183 of the currently addressed record of the access code association table 170, thereby also storing the caller username in association with the selected access code.

[0188] The process 270 then continues at block 284, which directs the processor 232 to store timeout and timestamp values in the timeout and timestamp fields 181 and 182 of the currently addressed record of the access code association table 170, thus further storing, in association with the selected access code, a timestamp for use in determining when the usability of the access code to initiate a call to the callee will expire. A default value, such as

10 minutes, for example may be stored in the timeout field 181 of the currently addressed record. Also, the current time indicated by the clock 244 is preferably stored in the timestamp field 182 of the currently addressed record.

[0189] In alternative embodiments, the access code association table (170) might not include fields for a caller identifier, caller username, a timeout, or a timestamp. In these embodiments, one or more of blocks 282, 283, and 284 described above are not necessary, and one or more of the caller identifier store 248 and the caller username store 249 may be omitted.

[0190] In summary, the access code generator in the illustrated embodiment responds to receiving an access code request message 110 illustrated in Figure 4 from the access server (14) by first authenticating the user, and then by searching through a pool of access codes, using the process 270 shown in Figure 12, to identify an access code that is associated with the local calling area identified by the local calling area identifier store (245) and that is not previously and validly associated with another callee identifier. It will be appreciated that in alternative embodiments, different data structures and algorithms may be preferable for identifying an access code that meets the aforementioned criteria. For example, in accordance with conventional database design that is well-known in the art, the records illustrated in the access code association table 170 illustrated in Figure 10 may alternatively be organized in a binary tree according to the value in the local calling area identifier field 171, or in separate tables for respective local calling area identifiers, for example, in order to enable a more efficient search of the access code association table for an access code that satisfies the aforementioned criteria. Therefore, the access code association table (170) and the process 270 illustrated in Figure 12 are examples only, and one of ordinary skill in the art will readily appreciate numerous alternative data structures and algorithms.

Gateway

[0191] Referring to Figure 13, in this embodiment, the gateway (18) includes a processor circuit shown generally at 300, which includes a microprocessor 302. The processor circuit 300 also includes a program memory 304, a memory 305, and an I/O port 306, all of which are in communication with the microprocessor 302. The processor circuit

300 may include multiple processors etc., and the aforementioned components of the processor circuit 300 may alternatively be combined.

[0192] The I/O port 306 includes a channel interface 308, which, in the illustrated embodiment, is in communication with the channels 20, 22, and 24 that were also illustrated in Figure 1. Where, as in the illustrated embodiment, the channels 20, 22, and 24 are PSTN telephone lines in the PSTN network 29, the channel interface 308 may, for example, be a T1 port for communication with one or more T1 lines (illustrated at 27 in Figure 1) of a PSTN service provider, in a manner well-known in the art. The I/O port in the illustrated embodiment also includes an internet interface 309 for interfacing with the Internet Protocol (IP) network 26 illustrated in Figure 1. The program memory 304 stores blocks of codes for directing the microprocessor 302 to carry out the functions of the gateway (18). It has been found that the AS5350 Universal Gateway available from Cisco Systems, Inc. of San Jose, Calif. may, for example, be suitable as the gateway (18).

[0193] Referring back to Figure 1, and also still to Figure 13, when a call is received on one of the channels 20, 22, or 24, the microprocessor 302 causes the I/O port 306 to use the internet interface 309 to send a Session Initiation Protocol (SIP) Invite message to a pre-determined node with which the gateway 18 is associated, which in the illustrated embodiment is the first node 11. Generally, the gateway 18 will be associated with a node that is geographically closest to the gateway, in order to minimize transmission times over the IP network 26. In response to the SIP Invite message, the call controller 13 sends an RC request message to the routing controller 30 which makes various enquiries of the database 23 to produce a routing message that is sent back to the call controller 13. The call controller 13 then communicates with the media relay 28 to cause a communications link including an audio path (and a videopath if a videophone call) to be established through the media relay to the same node, a different node, or to a communications supplier gateway as shown generally at 34 to carry audio, and where applicable, video traffic to the call recipient or callee.

[0194] Referring to Figure 14, an exemplary SIP Invite message is shown generally at 310 and includes a caller identifier field 312, a callee identifier field 314, a digest parameter field 315, a call identifier field 316, an IP address field 317, and a gateway UDP port field 318. Examples of values for the fields in the SIP Invite message 310 are shown for

illustration purposes only in Figure 14. The caller identifier in the caller identifier field 312 is preferably in the form of the telephone number of the caller followed by the "@" symbol, which in turn is followed by the IP address of the gateway (18) in the IP network (26). The caller identifier may be determined by retrieving calling line identification (CLID) information from the signal provided by the PSTN network (29) to the gateway (18) for example. Where the caller identification information is not available to the gateway (18), the caller identifier in the caller identifier field 312 preferably includes a pre-assigned number (such as 11111, for example) indicating that the caller identification information was not available, followed by the "@" symbol and then by the IP address of the gateway (18).

[0195] The callee identifier in the callee identifier field 314 is the access code identifying the channel (20, 22, or 24 in the example of Figure 1) on which the call was placed, and which was received from the access server (14). In the illustrated example, the access code is the PSTN telephone number 1-604-345-1212 corresponding to the channel 20 illustrated in Figure 1, and to the access code stored in the access code field 173 of the record 172 in the exemplary access code association table 170 illustrated in Figure 10.

[0196] The digest parameter in the digest parameter field 315 is generated by the gateway (18) and may uniquely identify the SIP session that is initiated with the SIP Invite message 310.

[0197] The call identifier in the call identifier field 316 is, in the illustrated embodiment, a four-digit hexadecimal number generated by the gateway (18) to identify the call, followed by the "@" symbol, which in turn is followed by the IP address of the gateway.

[0198] The IP address in the IP address field 317 is the IP address of the gateway (18) in the IP network (26), and the gateway UDP port number in the gateway UDP port field 318 includes a UDP port identifier identifying a UDP port at which the audio/video path will be terminated at the gateway (18).

[0199] It should be noted that throughout the description of the embodiments of this invention, the IP/UDP addresses of all elements such as the gateway (18) will be assumed to be valid IP/UDP addresses directly accessible via the Internet or a private IP network, for example, depending on the specific implementation of the system. As such, it will be assumed, for example, that the gateway (18) will have an IP/UDP address directly accessible by the call

controllers and the media relays on their respective nodes, and those addresses will not be obscured by Network Address Translation (NAT) or similar mechanisms. In other words, the IP/UDP information contained in SIP messages (for example the SIP Invite message or the RC Request message which will be described below) will match the IP/UDP addresses of the IP packets carrying these SIP messages.

[0200] It will be appreciated that in many situations, the IP addresses assigned to various elements of the system may be in a private IP address space, and thus not directly accessible from other elements. Furthermore, it will also be appreciated that NAT is commonly used to share a "public" IP address between multiple devices, for example between home PCs and IP telephones sharing a single Internet connection. For example, the gateway (18) may be assigned an IP address such as 192.168.0.5. This address is located in so called "non-routable" (IP) address space and cannot be accessed directly from the Internet. In order for this device to communicate with other computers located on the Internet, the IP address has to be converted into a "public" IP address, for example 24.14.102.5 assigned by the Internet Service Provider, by a device performing NAT, typically a router. In addition to translating the IP address, NAT typically also translates UDP port numbers, for example an audio path originating at the gateway (18) and using a UDP port 12378 at its private IP address, may have be translated to a UDP port 23465 associated with the public IP address of the NAT device. In other words, when a packet originating from the gateway (18) arrives at an Internet-based node, the source IP/UDP address contained in the IP packet header will be 24.14.102.5:23465, whereas the source IP/UDP address information contained in the SIP message inside this IP packet will be 192.168.0.5:12378. The mismatch in the IP/UDP addresses may cause a problem for SIP-based VoIP systems because, for example, a node will attempt to send messages to a private address but the messages will never get there.

Call Controller

[0201] Referring to Figure 15, the call controller (13) includes a processor circuit shown generally at 320. The processor circuit 320 includes a microprocessor 322, program memory 324, and an I/O port 326. The program memory 324 and the I/O port 326 are in communication with the microprocessor 322. The processor circuit 320 may include a

plurality of microprocessors, a plurality of program memories, and a plurality of I/O ports to be able to handle a large volume of calls. However, for simplicity, the processor circuit 320 will be described as having only one microprocessor 322, program memory 324, and I/O port 326, it being understood that there may be more.

[0202] Generally, the I/O port 326 includes an input 328 for receiving messages such as the SIP Invite message from the gateway (18) or from a VoIP telephone (36 in Figure 1, for example). The I/O port 326 also has an RC request message output 330 for transmitting an RC request message to the routing controller 30 of Figure 1, an RC message input 332 for receiving routing messages from the routing controller 30, a gateway output 334 for transmitting messages to the gateway 18 and/or 34 shown in Figure 1 to advise the gateway 18 and/or 34 to establish an audio path, for example, and a gateway input 336 for receiving messages from the gateway 18 and/or 34. The I/O port 326 further includes a SIP output 338 for transmitting messages to the gateway (18 and/or 34) or VoIP telephone (36, for example) to advise the gateway 18 and/or 34 or IP telephone of the IP addresses of the gateways which will establish the audio/video path. The I/O port 326 further includes a voicemail server input and output 340 and 342 respectively for communicating with the voicemail server 19 shown in Figure 1.

[0203] While certain inputs and outputs have been shown as separate, it will be appreciated that some may be a single IP address and IP port. For example, the messages sent to the routing controller (30) and received from the routing controller (30) may be transmitted and received on the same single IP port.

[0204] The program memory 324 includes blocks of code for directing the microprocessor 322 to carry out various functions of the call controller (13). For example, these blocks of code include a first block 344 for causing the processor circuit 320 to execute a SIP Invite to RC Request process to produce an RC Request Message in response to a received SIP Invite message. In addition, there is a Routing Message to Gateway message block 346 which causes the processor circuit 320 of the call controller to produce a gateway query message in response to a received routing message from the routing controller (30).

[0205] Referring to Figures 15 and 16, the SIP Invite to RC Request process is shown in more detail at 344. On receipt of a SIP Invite message of the type shown in Figure

14, block 350 directs the processor circuit 320 to produce an RC Request Message. Block 352 then directs the processor circuit 320 to cause the RC Request Message to be sent to the routing controller 30 illustrated in Figure 1.

[0206] Referring to Figure 17, an exemplary RC request message is shown generally at 360 and includes a caller identifier field 362, a callee identifier field 364, a digest parameters field 366, and a call identifier field 368. These fields may be populated with the contents of the caller identifier field 312, callee identifier field 314, digest parameter field 315, and call identifier field 316 respectively of the SIP Invite message 310 illustrated in Figure 14. In other embodiments, the RC request message may further include a type field (not shown) containing a type code to indicate whether the call is from a third party or from a system subscriber. Other variations of an RC request message are explained in PCT Publication No. WO 2008/052340. A type field (not shown) in the RC request message 360 may be advantageous in embodiments where SIP Invite messages may also be received from an IP telephone that is using VoIP software to make a voice call. However, in the embodiments that are illustrated herein, SIP Invite messages originate from the gateway (18), and therefore a type designation is not necessary and may be omitted from the RC request message 360. In embodiments where a SIP Invite message may be received from an IP telephone, the SIP invite to RC request process shown in Figure 16 may require additional steps, as illustrated in Figure 5 of PCT Publication No. WO 2008/052340.

RC Request Message Handler

[0207] As illustrated in Figure 8, the program memory 234 includes an RC request message handler 380 which directs the routing controller (30) to produce a routing message in response to a received RC request message (360). Referring to Figure 18A, the RC request message handler 380 begins with a first block 382 that directs the RC processor circuit (230) to separately store the contents of the callee identifier field 364 and caller identifier field 362 of the RC request message (360) in the callee identifier store 246 and the caller identifier store 248 respectively of Figure 8.

[0208] Block 384 then directs the RC processor circuit (230) to use the contents of the caller username store 249 to locate and retrieve from the database (23) a dialing profile

200 associated with the caller, as described above and illustrated in Figure 9, for example. The retrieved dialing profile may then be stored in the temporary memory 240, for example.

[0209] The RC request message handler 380 continues at block 386, which directs the processor circuit (230) of the routing controller to determine whether the contents of the current number of concurrent calls field 222 of the dialing profile 200 shown in Figure 9 are less than the contents of the maximum number of concurrent calls field 220 of the dialing profile for the caller and, if so, block 388 directs the processor circuit to increment the contents of the current number of concurrent calls field 222 and the processor circuit (230) is directed to point A in Figure 18B. If the contents of the current number of concurrent calls field 222 are equal to or greater than the contents of the maximum number of concurrent calls field 220, then block 390 directs the processor circuit (230) to send an error message back to the call controller (13) to cause the call controller to notify the caller that the maximum number of concurrent calls has been reached and no further calls can exist concurrently, including the presently requested call.

[0210] Assuming that block 386 allows the call to proceed, the RC processor circuit (230) is directed to perform certain checks on the callee identifier in the callee identifier field 246 in Figure 8. These checks are shown in greater detail in Figure 18B.

[0211] Referring to Figure 18B, the RC processor circuit (230) is directed to a first block 392 that causes it to determine whether a digit pattern of the callee identifier includes a pattern that matches the contents of the international dialing digits (IDD) field 208 in the dialing profile 200 (shown in Figure 9) associated with the caller. If so, then block 394 directs the RC processor circuit (230) to set a call type code identifier variable maintained by the processor to indicate that the call is an international call, and block 396 directs the processor to produce a reformatted callee identifier by reformatting the callee identifier into a predefined digit format. In this embodiment, this is done by removing the pattern of digits matching the IDD field contents (208) of the caller dialing profile 200 to effectively shorten the callee identifier. Then, block 398 directs the RC processor circuit (230) to determine whether or not the callee identifier has a length which meets criteria establishing it as a number compliant with the E.164 Standard set by the ITU. If the length does not meet these criteria, then block 400 directs RC processor circuit (230) to send back to the call controller (13) a

message indicating the length is not correct. The process 380 is then ended. At the call controller 13, routines (not shown) stored in the program memory 324 may direct the processor circuit (320 of Figure 15) to respond to the incorrect length message by transmitting a message back to the mobile telephone (12 shown in Figure 1) to indicate that an invalid number has been dialed.

[0212] If the length of the amended callee identifier meets the criteria set forth at block 398, then block 402 directs the RC processor circuit (230) to make a database request to the database (23) to determine whether or not the amended callee identifier is found in the DID field (373) of a record such as shown in Figure 11 in the DID bank table. If at block 402 the RC processor circuit (230) receives a response from the database (23) indicating that the reformatted callee identifier produced at block 396 is found in the DID field (373) of a record in the DID bank table, then the callee is a subscriber to the system and the call is classified as a private network call by directing the processor to block 404, which directs the RC processor circuit (230) to copy the contents of the corresponding username field (371 in Figure 11) from the callee DID bank table record (370 in Figure 11) into the callee identifier store (246 in Figure 8). Thus, the RC processor circuit (230) locates a subscriber username associated with the reformatted callee identifier. The processor (232) is then directed to point B in Figure 18A.

Calls to Subscribers in Different Nodes

[0213] Referring back to Figure 1, as noted above, the gateway 18 is preferably associated with a pre-determined node, which in the illustrated embodiment is the first node 11. Referring back to Figure 18A, block 406 directs the processor (232 of Figure 8) to execute a process to determine whether or not the node associated with the reformatted callee identifier in the callee identifier store (246 in Figure 8, which, at block 404, was set to be a username of the callee) is the same node that is associated with the gateway 18 illustrated in Figure 1.

[0214] To do this, the processor (232) may, for example, identify a node associated with the gateway (18) by using an IP address associated with the gateway to determine a node identifier of the gateway. An IP address associated with the gateway (18)

may, for example, be obtained from either the caller identifier field 362 or the call identifier field 368 of the RC request message 360 illustrated in Figure 17, as each of these fields includes a portion following an "@" symbol that indicates an IP address of the gateway. In order to determine a node identifier associated with the gateway (18) using the IP address associated with gateway (18), the processor 232 (illustrated in Figure 8) may access a gateway node association table stored in the database 23 (illustrated in Figure 1).

[0215] Referring to Figure 19, an exemplary gateway node association table is shown generally at 480. The exemplary gateway node association table 480 includes first and second records 482 and 484, each having a respective gateway IP address field 486 and a respective node identifier field 488. It will be appreciated that the exemplary gateway node association table 480 is an example for illustration purposes only. The values in the gateway IP address fields 486 are preferably initialized when a gateway (such as the gateway 18 illustrated in Figure 1) is installed as part of the system (10), and are preferably updated as the IP addresses of the respective gateways may change from time to time. The values in the node identifier fields 488 are also preferably initialized when a gateway (such as the gateway 18 illustrated in Figure 1) is installed as part of the system (10).

[0216] As indicated above, the reformatted callee identifier in the callee identifier store (246 in Figure 8) was set at block 404 in Figure 18B to be a username of the callee from the username field 371 (illustrated in Figure 11), and in this embodiment, a prefix of the username of the callee preferably indicates a node associated with the callee. In the illustrated embodiment, the left-most digit in the username of the callee is a continent code, which is a sufficient prefix to identify a node associated with the callee. However, it will be appreciated that in other embodiments, other prefixes or other information may identify the associated node. Preferably, the values in the node identifier fields 488 correspond to the prefixes of the usernames in the username fields 371 (illustrated in Figure 11), so that the node associated with the callee is the same node that is associated with the gateway 18 illustrated in Figure 1 if the prefix of the username of the callee matches the node identifier associated with the gateway (18). Therefore, in the illustrated embodiment, if the reformatted callee identifier in the callee identifier store (246 in Figure 8) is 2001 1050 8667, for example, then in the example of Figure 19, the node associated with the callee is the same node as the node

identified by the continent code "2" that is associated with the gateway associated with the IP address 20.14.102.5 in the record 482, but is not the same node as the node identified by the continent code "5" that is associated with the gateway associated with the IP address 104.12.131.12 in the record 484.

[0217] Referring back to Figure 18A, if at block 406 the prefix of the username of the callee does not match the node identifier associated with the gateway (18), then the call is a "cross-domain" call, and block 408 in Figure 18A directs the processor (232 in Figure 8) to set a call type flag in the temporary memory (240 in Figure 8) to indicate the call is a cross-domain call. Then, block 410 of Figure 18A directs the processor (232 of Figure 8) to produce a routing message identifying an address on the private network with which the callee identified by the contents of the callee ID buffer is associated and to set a time to live for the call at a maximum value of 99999, for example. Routing messages and time to live values, and also a method of determining the node in the system with which the callee is associated, are further described in PCT Publication No. WO 2008/052340. Once a routing message is produced at block 410, block 412 directs the processor (232 in Figure 8) to cause the routing message to be sent to the call controller 13 shown in Figure 1, and the process ends.

[0218] Referring back to Figure 18B, if at block 392, the callee identifier stored in the callee identifier store (246 in Figure 8) does not begin with an international dialing digit, then block 414 directs the processor (232) to determine whether or not the callee identifier begins with the same national dial digit code as assigned to the caller. To do this, the processor (232) is directed to refer to the retrieved caller dialing profile as shown in Figure 9. In Figure 9, the national dialing digit code 206 is the number 1. Thus, if the callee identifier begins with the number 1, then the processor (232) is directed to block 416 in Figure 18B.

[0219] Block 416 directs the processor (232 of Figure 8) to examine the callee identifier to determine whether or not the digits following the NDD digit identify an area code that is the same as any of the area codes identified in the local area codes field 212 of the caller dialing profile 200 shown in Figure 9. If not, block 418 of Figure 18B directs the processor (232) to set the call type flag to indicate that the call is a national call. If the digits following the NDD digit identify an area code that is the same as a local area code associated with the caller as indicated by the caller dialing profile, block 420 directs the processor (232)

to set the call type flag to indicate a local call, national style. After executing block 418 or 420, block 422 directs the processor (232) to format the callee identifier into a pre-defined digit format to produce a re-formatted callee identifier by removing the national dialed digit and prepending a caller country code identified by the country code field 210 of the caller dialing profile shown in Figure 9. The processor (232) is then directed to block 398 of Figure 18B to perform other processing as already described above.

[0220] If at block 414, the callee identifier does not begin with a national dialed digit, block 424 directs the processor (232) to determine whether the callee identifier begins with digits that identify the same area code as the caller. Again, the reference for this is the retrieved caller dialing profile shown in Figure 9. The processor (232) determines whether or not the first few digits of the callee identifier identify an area code corresponding to the contents of any area code identifier stored in the local area code field 212 of the retrieved caller dialing profile 200 (illustrated in Figure 9). If so, then block 426 directs the processor (232) to set the call type flag to indicate that the call is a local call. It should be noted that the call will not necessarily be a local call in every case where the first few digits of the callee identifier identify an area code corresponding to the contents of an area code identifier stored in the local area code field 212 (illustrated in Figure 9), and other determinations of when a call is to be considered local may be appropriate. However, it has been found that the determination described above for block 424 is satisfactory for some purposes. Next, block 428 directs the processor (232) to format the callee identifier into a pre-defined digit format to produce a reformatted callee identifier by prepending the caller country code to the callee identifier, the caller country code being determined from the country code field 210 of the retrieved caller dialing profile 200 shown in Figure 9. The processor (232) is then directed to block 398 for further processing as described above.

[0221] If at block 424, the callee identifier does not start with the same area code as the caller, block 430 directs the processor (232 of Figure 8) to determine whether the number of digits in the callee identifier, i.e. the length of the callee identifier, is within the range of digits indicated by the caller minimum local number length field 214 and the caller maximum local number length field 216 of the retrieved caller dialing profile 200 shown in Figure 9, and whether there is more than one area code identifier stored in the local area code

field 212 of the retrieved caller dialing profile. If the number of digits in the callee identifier is within the aforementioned range and there is only one area code identifier stored in the local area code field (212), then block 432 directs the processor (232) to set the call type flag to indicate a local call and block 434 directs the processor (232) to format the callee identifier into a pre-defined digit format to produce a reformatted callee identifier by prepending to the callee identifier the caller country code (as indicated by the country code field 210 of the retrieved caller dialing profile 200 shown in Figure 9) followed by the caller area code as indicated by the local area code stored in the local area code field 212 of the caller dialing profile 200 shown in Figure 9. The processor (232) is then directed to block 398 of Figure 18B for further processing as described above.

[0222] If at block 430, the callee identifier has a length that does not fall within the range specified by the caller minimum local number length field (214 in Figure 9) and the caller maximum local number length field (216 in Figure 9), or if there is more than one area code identifier stored in the local area code field 212 of the retrieved caller dialing profile 200 illustrated in Figure 9, then block 436 directs the processor (232) to send an error message back to the call controller (13), and the process ends.

[0223] In alternative embodiments, such as those illustrated in PCT Publication No. WO 2008/052340, an additional block (402 in Figure 8B of PCT Publication No. WO 2008/052340) may determine whether the callee identifier is a valid username. However, in the embodiment disclosed herein, the callee identifier is assumed to be a telephone number of the callee, and not a username.

[0224] From Figure 18B, it will be appreciated that there are certain groups of blocks of codes that direct the processor 232 in Figure 8 to determine whether the callee identifier has certain features such as an international dialing digit, a national dialing digit, an area code and a length that meet certain criteria, and cause the processor 232 to reformat the callee identifier stored in the callee identifier store 246 in Figure 8, as necessary into a predetermined target format including only a country code, area code, and a normal telephone number, for example, to cause the callee identifier to be compatible with the E.164 number plan standard in this embodiment. This enables block 402 in Figure 18B to have a consistent format of callee identifiers for use in searching through the DID bank table records 370 of the

type shown in Figure 11 to determine how to route calls to subscribers on the same system. Effectively, therefore blocks 392, 414, 424, and 430 establish call classification criteria for classifying the call as a public network call or a private network call. Block 402 classifies the call, depending on whether or not the formatted callee identifier has a DID bank table record, and this depends on how the call classification criteria are met.

Calls to Non-Subscribers

[0225] Not all calls will be to subscribers, and this will be detected by the processor 232 of Figure 8 when it executes block 402 in Figure 18B, and does not find a DID bank table record (370 illustrated in Figure 11) that is associated with the callee, in the DID bank table. When this occurs, the call is classified as a public network call, by directing the processor (232) to point C in Figure 18C.

[0226] Referring to Figure 18C, block 438 directs the processor (232) to determine whether the formatted callee identifier in the callee identifier store 246 in Figure 8 corresponds to an access code in the access code field 173 of a record in the access code association table 170 illustrated in Figure 10 that is associated with a callee identifier. Because the callee identifier in the callee identifier store 246 in Figure 8 has been formatted as described above with reference to Figure 18B, block 438 may involve determining whether an access code in the access code field 173 of a record of the access code association table 170 (illustrated in Figure 10) matches the formatted callee identifier in the callee identifier store 246 in Figure 8, and also whether a callee identifier (as opposed to the "null" value assigned on initialization) is stored in the callee identifier field 177 in association with the access code. As noted above, for simplicity, this description is directed to embodiments wherein an access code association table 170 associates access codes with respective callee identifiers, caller identifiers, timeout values, and timestamp values, although it will be appreciated that the processes described herein for records in the access code association table 170 may additionally or alternatively be applied to DID bank table records 370 in an analogous manner.

[0227] If at block 438 the formatted callee identifier in the callee identifier store 246 in Figure 8 is the same as an access code in the access code field (173) of a record of the access code association table 170 illustrated in Figure 10 that is associated with a callee

identifier, then block 440 directs the processor (232) to determine whether the caller identifier in the caller identifier store 248 (illustrated in Figure 8) is the same as the caller identifier in the caller identifier field (179) of the record of the access code association table (170), and thus whether the caller identifier in the caller identifier field (179) of the record of the access code association table (170) identifies the mobile telephone identified by the caller identifier in the caller identifier store 248. If not, then block 442 directs the processor (232) to send an error message to the call controller (13), and the process ends.

[0228] But if at block 440 the caller identifier in the caller identifier store 248 (illustrated in Figure 8) corresponds to the caller identifier in the caller identifier field (179) of the record of the access code association table (170), then the routing controller (30) will produce a routing message that will cause the call controller to establish communication through the IP network (26) to the callee in response to a call received at a channel (20, 22, or 24). Preferably, block 444 includes codes that direct the processor (232) to determine whether the association of the access code with the callee identifier has expired, and thus whether the usability of the access code to initiate a call to the callee has expired, in the manner described above for block 278 in Figure 12. If at block 444 the association of the access code with the callee identifier has expired, then block 442 directs the processor (232) to send an error message to the call controller (13), and the process ends. Thus the routing controller produces a routing message that causes the call controller to establish the call only when the association of the access code with the callee identifier has not expired.

[0229] It will be appreciated that in alternative embodiments, one or more of the caller identifier, timeout, and timestamp fields 179, 181, and 182 may be omitted from the access code association table 170 illustrated in Figure 10, and in these embodiments, one or more of the blocks 440, 442, and 444 may also be omitted.

[0230] If at block 444 the association of the access code with the callee identifier has not expired, or if one or both of blocks 440 and 444 is omitted, then block 446 directs the processor (232) to store the callee identifier from the callee identifier field 177 of the record of the access code association table (170) in the callee identifier store 246 illustrated in Figure 8. The processor (232) is then directed to point A in Figure 18B to repeat the steps illustrated

in Figure 18B using the callee identifier retrieved from the callee identifier field (177) in the record of the access code association table (170).

[0231] However, if at block 438 the formatted callee identifier in the callee identifier store 246 in Figure 8 does not correspond to an access code in a record of the access code association table 170 illustrated in Figure 10 that is associated with a callee identifier, then block 448 of Figure 18B causes the processor (232) to set the contents of the callee identifier store 246 of Figure 8 to be the newly formatted callee identifier, i.e., a number compatible with the E.164 standard. Then, block 450 of Figure 18B directs the processor (232) to generate a routing message identifying a gateway to the public network usable by the call controller (13) to establish a "public system" call. In one embodiment, block 450 includes codes that, for example, direct the processor (232) to search a database of route or master list records and to search a database of supplier records to identify at least one supplier operable to supply a communications link for the call, and to load a routing message buffer with supplier information, time to live values, and timeout values. An example of an implementation of these steps is described with reference to blocks 410, 412, 560, 562, 563, 564, 566, and 571 in Figures 8B and 8D in PCT Publication No. WO 2008/052340. Next, block 452 directs the processor 232 of Figure 10 to send the routing message to the call controller 13 in Figure 1, and the process ends.

Calls to Subscribers within the Same Node

[0232] Referring back to Figure 18A, if at block 406, the prefix of the username of the callee matches the node identifier associated with the gateway (18), then the call is on one domain, and block 454 directs the processor (232) to use the callee identifier in the callee identifier store 246 illustrated in Figure 8 (which, at block 404, was set to be a username of the callee) to locate and retrieve a dialing profile for the callee. The dialing profile may be of the type shown in Figure 9, for example. Block 456 of Figure 18A then directs the processor 232 of Figure 8 to get call block, call forward, and voicemail records from the database 23 of Figure 1, based on the username identified in the callee dialing profile retrieved by the processor at block 454. Exemplary call block, call forward, and voicemail records are described in PCT Publication No. WO 2008/052340.

[0233] Then block 458 directs the processor 232 of Figure 8 to determine whether or not the caller identifier received in the RC request message matches a block pattern stored in the call block record associated with the callee and retrieved at block 454. If the caller identifier matches a block pattern, then block 460 directs the processor to send a drop call or non-completion message to the call controller (13) and the process is ended. If the caller identifier does not match a block pattern associated with the callee, then block 462 directs the processor (232) to determine whether or not call forwarding is required, as described in PCT Publication No. WO 2008/052340.

[0234] If at block 462, the call forwarding record for the callee indicates that no call forwarding is required, then the processor (232) is directed to block 464, which directs the processor (232) to generate a routing message identifying an address on the private network, associated with the callee for a "private system" call. In one embodiment, block 464 includes codes that, for example, direct the processor (232) to store, in a routing message buffer, a username and domain of the callee, time to live values, and an IP address of the current node, to determine whether or not the user identified by the callee identifier has paid for voicemail service and if so, to store voicemail information in the routing message buffer. An example of an implementation of these steps is described with reference to blocks 609, 620, 640, 642, and 644 in Figures 8A and 8C in PCT Publication No. WO 2008/052340, which is incorporated herein by reference. Next, block 466 directs the processor 232 of Figure 8 to cause the routing message to be sent to the call controller 13 in Figure 1, and the process ends.

[0235] But if at block 462, the call forwarding record for the callee indicates that call forwarding is required, then block 468 directs the processor (232) to search a dialing profile table to find a dialing profile record as shown in Figure 9, for the user identified by the destination number field of the call forward record, as illustrated in PCT Publication No. WO 2008/052340. The processor (232) is further directed to store the username and domain for that user and a time to live value in a routing message buffer, an example of which is described in PCT Publication No. WO 2008/052340. This process is repeated for each call forwarding record associated with the callee identified by the callee identifier store 246 in Figure 8 to add

to the routing message buffer all call forwarding usernames and domains associated with the callee.

[0236] Referring to Figures 1, 18A, and 18C, the routing message sent at one of blocks 412, 452, and 466 is received at the call controller 13 and the call controller interprets the receipt of the routing message as a request to establish a call. Referring to Figure 15, the program memory 324 of the call controller 13 includes a routing to gateway routine depicted generally at 346.

[0237] Where a routing message received at the call controller 13 is of the type produced at block 464 shown in Figure 18A, indicating that the callee is a system subscriber on the same node as the gateway (18) (such as a user of the VoIP telephone 36 illustrated in Figure 1), the routing to gateway routine 346 may direct the microprocessor 322 to cause a message to be sent back through the IP network 26 shown in Figure 1 to the VoIP telephone (36), using the IP address of the VoIP telephone (36) that is available from the callee username.

[0238] Alternatively, if the routing message received at the call controller 13 is of the type produced at block 410 shown in Figure 18A, identifying a domain associated with another node in the system, the call controller 13 may send a SIP invite message along the high speed/high data throughput link 17 in communication with the other node. The other node may function as explained above and in PCT Publication No. WO 2008/052340, in response to receipt of a SIP invite message.

[0239] If the routing message received at the call controller 13 is of the type produced at block 450 shown in Figure 18C, indicating that the callee is not a subscriber to the system (such as a user of the PSTN telephone 32 that is in communication with the IP network 26 through the gateway 34 as illustrated in Figure 1), the call controller sends one or more SIP invite messages to the suppliers identified in the routing message to identify the IP address of a supplier that is able to carry the call, such as the IP address of the gateway 34 illustrated in the example of Figure 1. A process for identifying the IP address of a supplier that is able to carry the call is given in PCT Publication No. WO 2008/052340, which is incorporated herein by reference. In some cases, the gateway of the supplier that is able to carry the call will be the gateway 18 illustrated in Figure 1, that is, the same gateway through

which the caller telephone (12) initiated the call. For simplicity, the following description assumes that the gateways 18 and 34 are distinct gateways. It will be understood that in some cases, they may be the same gateway, but in these cases, the following steps may still be applied.

[0240] Referring to Figure 1, the IP address of the gateway 34 is sent in a message from the call controller 13 to the media relay 28, which responds with a message indicating an IP address to which the gateway 18 should send its audio/video traffic, and an IP address to which the gateway 34 should send its audio/video for the call. The call controller conveys the IP address at which the media relay 28 expects to receive audio/video from the gateways 18 and 34, to the gateways 18 and 34 in one or more messages. The gateway 18 replies to the call controller 13 with an IP address at which it would like to receive audio/video, and the call controller conveys that IP address to the media relay 28. The call may then be conducted between the caller and callee through the media relay 28 and the gateways 18 and 34.

[0241] If the call controller 13 receives a routing message of the type produced at block 464 shown in Figure 18A, indicating that the callee is a system subscriber on the same node as the gateway (18) (such as a user of the VoIP telephone 36 illustrated in Figure 1), and which has at least one call forwarding number and/or a voicemail number, the call controller attempts to establish a call to the callee VoIP telephone 36 by seeking from the callee telephone a message indicating an IP address to which the media relay 28 should send audio/video. If no such message is received from the callee telephone, no call is established. If no call is established within a pre-determined time, the call controller 13 attempts to establish a call with the next user identified in the call routing message in the same manner. This process is repeated until all call forwarding possibilities have been exhausted, in which case the call controller communicates with the voicemail server 19 identified in the routing message to obtain an IP address to which the media relay 28 should send audio/video and the remainder of the process mentioned above for establishing IP addresses at the media relay and the caller telephone is carried out to establish audio/video paths to allowing the caller to leave a voicemail message with the voicemail server.

[0242] When an audio/video path through the media relay 28 is established, a call timer maintained by the call controller 13 preferably logs the start date and time of the call and

logs the call ID and an identification of the route (i.e., audio/video path IP address) for later use in billing.

Terminating the Call

[0243] Referring back to Figure 1, in the event that the caller terminates a call, the gateway 18 sends a SIP bye message to the call controller 13. Similarly, in the event that the callee terminates the call, the gateway 34 or the VoIP telephone 36 of the callee sends a SIP bye message to the call controller 13. Exemplary SIP bye messages are described in PCT Publication No. WO 2008/052340. The SIP bye message is received at the call controller 13, and the call controller executes a process that involves decrementing the contents of the current number of concurrent calls field 222 dialing profile 200 of the caller as illustrated in Figure 9, generating an RC call stop message (not shown), sending the RC call stop message to the routing controller 30, and sending a "bye" message to the party that did not terminate the call. An exemplary RC call stop message, and an example of how these steps may be implemented, are described in PCT Publication No. WO 2008/052340, which is incorporated herein by reference.

[0244] When the routing controller 30 receives the RC call stop message from the call controller 13, the routing controller executes an RC call stop message process that involves making various updates to subscriber, reseller, and supplier account records (not shown) following the call. Examples of subscriber, reseller, and supplier account records, and of updates to subscriber, reseller, and supplier account records, are described in PCT Publication No. WO 2008/052340, which is incorporated herein by reference.

[0245] While specific embodiments of the invention have been described and illustrated, such embodiments should be considered illustrative of the invention only and not as limiting the invention.

WHAT IS CLAIMED IS:

1. A method of establishing communications between a wireless device and a destination node of a communications network, the method comprising:

receiving from a user of the wireless device a destination node identifier associated with the destination node;

transmitting an access code request message to an access server, the access code request message including the destination node identifier and a location identifier identifying a geographical location of the wireless device;

receiving an access code reply message from the access server in response to the access code request message, the access code reply message including an access code identifying a communications channel on a gateway through which communications between the wireless device and the destination node can be conducted, the access code being distinct from the destination node identifier; and

establishing communications between the wireless device and the destination node through the channel identified by the access code.

2. The method of claim 1, wherein transmitting comprises transmitting the access code request message to the access server on a non-voice network.

3. The method of claim 1, wherein transmitting comprises transmitting the access code request message as a Short Messaging Service (SMS) message.

4. The method of claim 1, wherein transmitting comprises transmitting the access code request message on a voice network.

5. The method of claim 4, wherein transmitting the access code request message on a voice network comprises transmitting the access code request message as a Short Messaging Service (SMS) message.

6. The method of claim 1, wherein the location identifier comprises an Internet Protocol (IP) address of the wireless device in a wireless Internet Protocol (IP) network.

T-Mobile Exhibit 1002

7. The method of claim 1, wherein the location identifier comprises an identifier of a wireless voice signal station in wireless communication with the wireless device.

8. The method of claim 1, wherein the location identifier comprises a user-configured identifier of a location associated with the wireless device.

9. The method of claim 1, wherein receiving the access code reply message comprises receiving the access code reply message from the access server on a non-voice network.

10. The method of claim 1, wherein receiving the access code reply message comprises receiving the access code reply message as a Short Messaging Service (SMS) message.

11. The method of claim 1, wherein receiving comprises receiving the access code reply message on a voice network.

12. The method of claim 11, wherein receiving the access code reply message on a voice network comprises receiving the access code reply message as a Short Messaging Service (SMS) message.

13. The method of claim 1, wherein receiving the access code reply message comprises receiving, in the access code reply message, an access code temporarily associated with the destination node identifier.

14. The method of claim 1, wherein receiving the access code reply message comprises receiving, in the access code reply message, a telephone number or an Internet Protocol (IP) address.

15. The method of claim 14, wherein establishing communications between the wireless device and the destination node comprises engaging a routing controller to route the call on a public switched telephone network (PSTN) or an IP network to the destination node.

16. The method of claim 1 further comprising:

receiving at the access server, the access code request message from the wireless device;

causing the access server to communicate with a routing controller to obtain from the routing controller the access code, wherein the access code identifies a communications channel associated with the location identifier and wherein the access code is useable by the wireless device in a subsequent communication to cause the routing controller to establish a call to the destination node using the communications channel; and

causing the access server to transmit the access code reply message to the wireless device.

17. The method of claim 16, wherein transmitting the access code reply message comprises transmitting the access code reply message as a Short Messaging Service (SMS) message.

18. The method of claim 16, wherein transmitting the access code reply message comprises transmitting the access code reply message on a voice network.

19. The method of claim 18, wherein transmitting the access code reply message on a voice network comprises transmitting the access code request message as a Short Messaging Service (SMS) message.

20. A wireless apparatus comprising:

means for receiving from a user of the wireless apparatus a destination node identifier associated with a destination node with which the user wishes to communicate;

means for transmitting an access code request message to an access server, the access code request message including the destination node identifier and a location identifier identifying a geographical location of the wireless apparatus;

means for receiving an access code reply message from the access server in response to the access code request message, the access code reply message including an access code identifying a communications channel on a gateway through which communications between the wireless apparatus and the destination node can be conducted, the access code being distinct from the destination node identifier; and

means for establishing communications between the wireless device and the destination node through the communications channel identified by the access code.

21. The apparatus of claim 20, wherein the transmitting means comprises a non-voice network interface for transmitting the access code request message to the access server on a non-voice network.

22. The apparatus of claim 20, wherein the means for transmitting includes means for transmitting the access code request message as a Short Messaging Service (SMS) message.

23. The apparatus of claim 20, wherein the means for transmitting comprises means for transmitting the access code request message on a voice network.

24. The apparatus of claim 23, wherein the means for transmitting the access code request message on a voice network comprises means for transmitting the access code request message as a Short Messaging Service (SMS) message.

25. The apparatus of claim 20, wherein the location identifier comprises an Internet Protocol (IP) address of the wireless apparatus in a wireless IP network.

26. The apparatus of claim 20, wherein the location identifier comprises an identifier of a wireless voice signal station in wireless communication with the wireless apparatus.

27. The apparatus of claim 20, wherein the location identifier comprises a user-configured identifier of a location associated with the wireless apparatus.

28. The apparatus of claim 20, wherein the means for receiving an access code reply message comprises a non-voice network interface for receiving the access code reply message on a non-voice network.

29. The apparatus of claim 20, wherein the means for receiving the access code request message comprises means for receiving the access code request message as a Short Messaging Service (SMS) message.

30. The apparatus of claim 20, wherein the means for receiving comprises means for receiving the access code request message on a voice network.

31. The apparatus of claim 30, wherein the means for receiving the access code request message on a voice network comprises means for receiving the access code request message as a Short Messaging Service (SMS) message.

32. The apparatus of claim 20, wherein the access code includes a telephone number or an IP address.

33. The wireless apparatus of claim 20, wherein the means for establishing communications comprises a mobile telephone network interface.

34. A system for enabling roaming by a wireless apparatus, the system comprising the wireless apparatus of claim 20 and further comprising:

a routing controller; and

an access server comprising:

means for receiving from the wireless apparatus the access code request message;

means for communicating with the routing controller to obtain from the routing controller the access code wherein the access code identifies a communications channel associated with the location identifier and wherein the access code is useable by the wireless apparatus to cause the routing controller to establish a call to the destination node using the communications channel; and

means for transmitting the access code reply message including the access code to the wireless apparatus.

35. The system of claim 34, wherein the means for transmitting the access code reply message comprises means for transmitting the access code reply message as a Short Messaging Service (SMS) message.

36. The system of claim 34, wherein the means for transmitting the access code reply message comprises means for transmitting the access code reply message on a voice network.

37. The system of claim 36, wherein the means for transmitting the access code reply message on a voice network comprises means for transmitting the access code request message as a Short Messaging Service (SMS) message.

38. A wireless apparatus comprising:

a processor circuit comprising at least one processor;

a network interface in communication with the processor circuit; and

a non-transitory computer readable medium having computer executable codes stored thereon for directing the processor circuit to cooperate with the network interface to:

receive from a user of the wireless apparatus a destination node identifier associated with a destination node with which the user wishes to communicate;

transmit an access code request message to an access server, the access code request message including the destination node identifier and a location identifier identifying a geographical location of the wireless apparatus;

receive an access code reply message from the access server in response to the access code request message, the access code reply message including an access code identifying a communications channel on a gateway through which communications between the wireless apparatus and the

destination node can be conducted, the access code being distinct from the destination node identifier; and

establish communications between the wireless device and the destination node through the communications channel identified by the access code.

39. The apparatus of claim 38, wherein the network interface comprises a non-voice network interface, and wherein the codes for directing the processor circuit to cause the access code request message to be transmitted include codes for directing the processor circuit to cause the access code request message to be transmitted to the access server using the non-voice network interface on a non-voice network.

40. The apparatus of claim 38, wherein the codes for directing the processor circuit to cause an access code to be transmitted to the access code server include codes for directing the processor circuit to cause the access code request message to be transmitted as a Short Messaging Service (SMS) message.

41. The apparatus of claim 38, wherein the network interface comprises a voice network interface and wherein the codes for directing the processor circuit to cause an access code to be transmitted to the access code server include codes for directing the processor circuit to cause the access code request message to be transmitted on a voice network.

42. The apparatus of claim 41, wherein the codes for directing the processor circuit to cause an access code to be transmitted to the access code server include codes for directing the processor circuit to cause the access code request message to be transmitted as a Short Messaging Service (SMS) message on the voice network.

43. The wireless apparatus of claim 38, wherein the location identifier comprises an Internet Protocol (IP) address of the wireless apparatus in a wireless IP network.

44. The wireless apparatus of claim 38, wherein the location identifier comprises an identifier of a wireless voice signal station in wireless communication with the wireless apparatus.

45. The wireless apparatus of claim 38, wherein the location identifier comprises a user-configured identifier of a location associated with the wireless apparatus.

46. The wireless apparatus of claim 38, wherein the network interface comprises a non-voice network interface, and wherein the codes for directing the processor circuit to receive an access code reply message include codes for directing the processor circuit to cause the access code reply message to be received from the access server using the non-voice network interface on a non-voice network.

47. The wireless apparatus of claim 38, wherein the access code includes a telephone number or an IP address.

48. The wireless apparatus of claim 38, wherein the network interface comprises a mobile telephone network interface, and wherein the codes for directing the processor circuit to establish communications between the wireless device and the destination node to include codes for directing the processor circuit to cause a call to be initiated using the mobile telephone network interface on a mobile telephone network.

49. A system for enabling roaming by a wireless apparatus, the system comprising the wireless apparatus of claim 38 and further comprising:

a routing controller; and

an access server comprising a processor circuit and a computer readable medium in communication with the processor circuit, the computer readable medium encoded with codes for directing the processor circuit of the access server to:

receive the access code request message from the wireless apparatus;

communicate with the routing controller to obtain from the routing controller the access code wherein the access code identifies a communications channel associated with the location identifier and wherein the access code is useable by the

wireless apparatus to cause the routing controller to establish a call to the destination node using the communications channel; and

transmit the access code reply message to the wireless apparatus.

50. A non-transitory computer readable medium having stored thereon computer executable codes for directing a processor circuit of a wireless device to establish communications with a destination node on a network, the codes comprising codes for directing the processor circuit to:

cause the wireless device to receive from a user of the wireless device a destination node identifier associated with the destination node;

cause the wireless device to transmit an access code request message to an access server, the access code request message including the destination node identifier and a location identifier identifying a geographical location of the wireless device;

cause the wireless device to receive an access code reply message from the access server in response to the access code request message, the access code reply message including an access code identifying a communications channel on a gateway through which communications between the wireless device and the destination node can be conducted, the access code being distinct from the destination node identifier; and

cause the wireless device to establish communications between the wireless device and the destination node through the communications channel identified by the access code.

51. A method for enabling a wireless device to establish communications with a destination node, the method comprising:

receiving from the wireless device an access code request message including a destination node identifier associated with the destination node and a location identifier identifying a geographical location of the wireless device;

in response to receiving the access code request message, causing a routing controller to produce an access code identifying a communications channel on a gateway through which communications between the wireless device and the destination node can be conducted, wherein the access code is produced based on an area code associated with the wireless device and wherein the access code is useable by the wireless device to initiate communications with the destination node through the communications channel; and

transmitting an access code reply message including the access code to the wireless device.

52. The method of claim 51, wherein receiving comprises receiving the access code request message on a non-voice network.

53. The method of claim 51, wherein receiving the access code request message comprises receiving the access code request message as a Short Messaging Service (SMS) message.

54. The method of claim 51, wherein receiving comprises receiving the access code request message on a voice network.

55. The method of claim 54, wherein receiving the access code request message on a voice network comprises receiving the access code request message as a Short Messaging Service (SMS) message.

56. The method of claim 51, wherein the routing controller is operably configured to route a call between the wireless device and the destination node when the wireless device uses the access code to establish communications between the wireless device and the destination node.

57. The method of claim 51, wherein causing the routing controller to produce the access code comprises causing the access code to be selected from a pool of access codes.

58. The method of claim 57 further comprising determining from the location identifier a local calling area associated with the wireless device and causing the access server to select an access code associated with a calling area matching the local calling area associated with the wireless device.

59. The method of claim 57, further comprising accessing a location field of a dialing profile associated with the wireless device when a local calling area cannot be determined from the location identifier and determining a local calling area associated with the wireless device from the contents of the location field and selecting an access code associated with a calling area matching the local calling area associated with the wireless device.

60. The method of claim 51, wherein the location identifier comprises an Internet Protocol (IP) address of the wireless device in a wireless IP network.

61. The method of claim 51, wherein the location identifier comprises an identifier of a wireless voice signal station in wireless communication with the wireless device.

62. The method of claim 51, wherein the location identifier comprises a user-configured identifier of a location associated with the wireless device.

63. The method of claim 57, wherein at least one of the access codes in the pool of access codes identifies an IP network address as a possible communications channel through which the communications can be conducted.

64. The method of claim 63, further comprising enabling communications between the wireless device and the destination node to be established through an IP network in response to a call received at the IP network address from the wireless device using the access code identifying the IP network address.

65. The method of claim 57, wherein at least one of the access codes identifies a telephone number as a possible communications channel through which the communications can be conducted.

66. The method of claim 65, further comprising enabling communications between the wireless device and the destination node to be established through a public switched telephone network (PSTN) in response to a call received at the telephone number from the wireless device using the access code identifying the telephone number.

67. The method of claim 51, wherein the access code request message includes a caller identifier and wherein the method further comprises associating the caller identifier included in the access code request message with the access code produced by the routing controller.

68. The method of claim 64, further comprising enabling the routing controller to facilitate communications in response to use of the access code by the wireless device only if the caller identifier associated with the access code used by the wireless device to establish communications with the destination node identifies the wireless device.

69. The method of claim 67, further comprising associating the destination node identifier included in the access code request message with the access code produced by the routing controller.

70. The method of claim 69, wherein the associating the caller identifier and the destination node identifier with the selected access code occurs only when:

a) the access code is not already associated with a destination node identifier; or

b) the access code is already associated with another destination node identifier, and a timeout value associated with the another destination node identifier has expired.

71. The method of claim 51, further comprising causing a timestamp to be associated with the access code, for use in determining when the usability of the access code to initiate a call to the destination node will expire, and causing the timestamp to be included in the access code reply message transmitted to the wireless device.

72. The method of claim 70, further comprising causing communications to be permitted between the wireless device and the destination node when the wireless device seeks to establish a call to the destination node using the access code transmitted in the access code reply message when the timestamp associated with the access code indicates the usability of the access code has not expired, and causing the communications to be prevented when the timestamp indicates the usability of the access code has expired.

73. The method of claim 51, wherein transmitting comprises transmitting the access code reply message on a non-voice network.

74. The method of claim 51, wherein transmitting the access code reply message comprises transmitting the access code reply message as a Short Messaging Service (SMS) message.

75. The method of claim 51, wherein transmitting comprises transmitting the access code reply message on a voice network.

76. The method of claim 75, wherein transmitting the access code reply message on a voice network comprises transmitting the access code reply message as a Short Messaging Service (SMS) message.

77. An apparatus for enabling a wireless device to establish communications with a destination node, the apparatus comprising:

means for receiving from the wireless device an access code request message including a destination node identifier associated with the destination node and a location identifier identifying a geographical location of the wireless device;

means for causing a routing controller to produce an access code identifying a communications channel on a gateway through which communications between the wireless device and the destination node can be conducted, in response to receiving the access code request message, such that the access code server produces the access code based on an area code associated with the wireless device and such that the

access code is useable by the wireless device to initiate communications with the destination node through the communications channel; and

means for transmitting an access code reply message including the access code to the wireless device.

78. The apparatus of claim 77, wherein the means for receiving comprises a non-voice network interface for receiving the access code request message on a non-voice network.

79. The apparatus of claim 77, wherein the means for receiving the access code request message comprises means for receiving the access code request message as a Short Messaging Service (SMS) message.

80. The apparatus of claim 77, wherein the means for receiving comprises means for receiving the access code request message on a voice network.

81. The apparatus of claim 80, wherein the means for receiving the access code request message on a voice network comprises means for receiving the access code request message as a Short Messaging Service (SMS) message.

82. The apparatus of claim 77, further comprising the routing controller and wherein routing controller is operably configured to route a call between the wireless device and the destination node.

83. The apparatus of claim 82, wherein the routing controller is operably configured to select the access code from a pool of access codes.

84. The apparatus of claim 83, wherein the routing controller is operably configured to determine a local calling area associated with the wireless device from the location identifier and to select an access code associated with a calling area matching the local calling area associated with the wireless device.

85. The apparatus of claim 83, further comprising:

a dialing profile associated with the wireless device, the dialing profile including a location field; and

wherein the routing controller is operably configured to determine a local calling area associated with the wireless device from the contents of the location field and to select an access code associated with a calling area matching the local calling area associated with the wireless device, when a local calling area associated with the wireless device cannot be determined from the location identifier.

86. The apparatus of claim 77, wherein the location identifier includes an Internet Protocol (IP) address of the wireless device in a wireless IP network.

87. The apparatus of claim 77, wherein the location identifier includes an identifier of a wireless voice signal station in wireless communication with the wireless device.

88. The apparatus of claim 77, wherein the location identifier includes a user-configured identifier of a location associated with the wireless device.

89. The apparatus of claim 83, wherein at least one of the access codes in the pool of access codes identifies an IP network address as a possible communications channel through which the communications can be conducted.

90. The apparatus of claim 89, wherein the routing controller is operably configured to enable communications between the wireless device and the destination node to be established through an IP network in response to a call received at the IP network address from the wireless device using the access code identifying the IP network address.

91. The apparatus of claim 83, wherein at least one of the access codes in the pool of access codes identifies a telephone number as a possible communications channel through which the communications can be conducted.

92. The apparatus of claim 91, wherein the routing controller is operably configured to enable communications between the wireless device and the destination node to

be established through a public switched telephone network (PSTN) in response to a call received at the telephone number from the wireless device using the access code identifying the telephone number.

93. The apparatus of claim 83, wherein the access code request message includes a caller identifier and wherein the routing controller is operably configured to associate the caller identifier with the selected access code.

94. The apparatus of claim 93, wherein the routing controller is operably configured to facilitate communications between the wireless device and the destination node in response to use of the access code by the wireless device only if the caller identifier associated with the access code used by the wireless device to establish communications with the destination node identifies the wireless device.

95. The apparatus of claim 93, wherein the routing controller is operably configured to associate the destination node identifier included in the access code request message with the selected access code.

96. The apparatus of claim 95, wherein the routing controller is operably configured to associate the caller identifier and the destination node identifier with the selected access code only when:

a) the access code is not already associated with a destination node identifier; or

b) the access code is already associated with another destination node identifier, and a timeout value associated with the another destination node identifier has expired.

97. The apparatus of claim 82, wherein the routing controller is operably configured to associate a timestamp with the access code, for use in determining when the usability of the access code to initiate a call to the destination node will expire, and to cause the timestamp to be included in the access code reply message transmitted to the wireless device.

98. The apparatus of claim 97, wherein the routing controller is operably configured to enable communications to be established between the wireless device and the destination node when the wireless device seeks to establish a call to the destination node using the access code transmitted in the access code reply message when the timestamp associated with the access code indicates the usability of the access code has not expired and to prevent the communications from being established when the timestamp indicates the usability of the access code has expired.

99. The apparatus of claim 77, wherein the means for transmitting comprises a non-voice network interface for transmitting the access code reply message on a non-voice network.

100. The apparatus of claim 77, wherein the means for transmitting the access code reply message comprises means for transmitting the access code reply message as a Short Messaging Service (SMS) message.

101. The apparatus of claim 77, wherein the means for transmitting comprises means for transmitting the access code reply message on a voice network.

102. The apparatus of claim 77, wherein the means for transmitting for the access code reply message on a voice network comprises means for transmitting the access code reply message as a Short Messaging Service (SMS) message.

103. An apparatus for enabling a wireless device to establish communications with a destination node, the apparatus comprising:

a processor circuit including at least one processor;

a network interface in communication with the processor circuit; and

a non-transitory computer readable medium having stored thereon computer executable codes for directing the at least one processor to:

receive from the wireless device an access code request message including a destination node identifier associated with the destination node and a location identifier identifying a geographical location of the wireless device;

cause a routing controller to produce an access code identifying a communications channel on a gateway through which communications between the wireless device and the destination node can be conducted, in response to receiving the access code request message, such that the access code server produces the access code based on an area code associated with the wireless device and such that the access code is useable by the wireless device to initiate communications with the destination node through the communications channel; and

transmit an access code reply message including the access code to the wireless device.

104. The apparatus of claim 103, wherein the network interface comprises a non-voice network interface, and wherein the codes for directing the processor circuit to receive include codes for directing the processor circuit to cause the access code request message to be received using the non-voice network interface on a non-voice network.

105. The apparatus of claim 103, wherein the codes includes codes for directing the processor circuit to receive the access code request message as a Short Messaging Service (SMS) message.

106. The apparatus of claim 103, wherein the codes include codes for directing the processor circuit to receive the access code request message on a voice network.

107. The apparatus of claim 106, wherein the codes include codes for directing the processor circuit to receive the access code request message as a Short Messaging Service (SMS) message.

108. The apparatus of claim 103 further comprising the routing controller.

109. The apparatus of claim 108, wherein the routing controller is operably configured to cause the access code to be selected from a pool of access codes, wherein each access code in the pool of access codes identifies a respective telephone number.

110. The apparatus of claim 109, wherein the routing controller is operably configured to determine from the location identifier a local calling area associated with the wireless device and to select an access code associated with a calling area matching the local calling area associated with the wireless device.

111. The apparatus of claim 109, wherein the routing controller is operably configured to access a location field of a dialing profile associated with the wireless device when a local calling area cannot be determined from the contents of the location identifier and to determine a local calling area associated with the wireless device from the contents of the location field and to select an access code associated with a calling area matching the local calling area associated with the wireless device.

112. The apparatus of claim 103, wherein the location identifier comprises an Internet Protocol (IP) address of the wireless device in a wireless IP network.

113. The apparatus of claim 103, wherein the location identifier comprises an identifier of a wireless voice signal station in wireless communication with the wireless device.

114. The apparatus of claim 103, wherein the location identifier comprises a user-configured identifier of a location associated with the wireless device.

115. The apparatus of claim 109, wherein at least one of the access codes in the pool of access codes identifies an IP network address as a possible communications channel through which the communications can be conducted.

116. The apparatus of claim 115, wherein the routing controller is operably configured to enable communications between the wireless device and the destination node to be established through an IP network in response to a call received at the IP network address from the wireless device using the access code identifying the IP network address.

117. The apparatus of claim 108, wherein at least one of the access codes in the pool of access codes identifies a telephone number as a possible communications channel through which the communications can be conducted.

118. The apparatus of claim 117, wherein the routing controller is operably configured to enable communications between the wireless device and the destination node to be established through a public switched telephone network (PSTN) in response to a call received at the telephone number from the wireless device using the access code identifying the telephone number.

119. The apparatus of claim 109, wherein the access code request message includes a caller identifier and wherein the routing controller is operably configured to associate the caller identifier included in the access code request message with the selected access code.

120. The apparatus of claim 119, wherein the routing controller is operably configured to facilitate communications between the wireless device and the destination node in response to the access node used by the wireless device only if the caller identifier associated with the access code used by the wireless device to establish communications with the destination node identifies the wireless device.

121. The apparatus of claim 119, wherein the routing controller is operably configured to associate the destination node identifier included in the access code request message with the selected access code.

122. The apparatus of claim 121, wherein the routing controller is operably configured to associate the caller identifier and the destination node identifier with the selected access code only when:

a) the access code is not already associated with another destination node identifier; or

b) the access code is already associated with a destination node identifier, and a timeout value associated with the another destination node identifier has expired.

123. The apparatus of claim 122, wherein the routing controller is operably configured to associate a timestamp with the access code, for use in determining when the usability of the access code to initiate a call to the destination node will expire, and to cause the timestamp to be included in the access code reply message.

124. The apparatus of claim 123, wherein the routing controller is operably configured to enable communications to be established between the wireless device and the destination node when the wireless device seeks to establish a call to the destination node using the access code transmitted in the access code reply message when the timestamp associated with the access code indicates the usability of the access code has not expired and to prevent the communications from being established when the timestamp indicates the usability of the access code has expired.

125. The apparatus of claim 103, wherein the network interface comprises a non-voice network interface, and wherein codes for directing the processor circuit to transmit include codes for directing the processor circuit to cause the access code reply message to be transmitted using the non-voice network interface on a non-voice network.

126. The apparatus of claim 103, wherein the codes include codes for directing the processor circuit to cause the access code reply message to be transmitted as a Short Messaging Service (SMS) message.

127. The apparatus of claim 103, wherein the codes include codes for directing the processor circuit to cause the access code reply message to be transmitted on a voice network.

128. The apparatus of claim 127, wherein the codes include codes for directing the processor circuit to cause the access code reply message to be transmitted as a Short Messaging Service (SMS) message.

129. A non-transitory computer readable medium encoded with computer executable codes for directing a processor circuit of a wireless device to establish communications with a destination node, the codes comprising codes for directing the processor circuit to:

receive from the wireless device an access code request message including a destination node identifier associated with the destination node and a location identifier identifying a geographical location of the wireless device;

cause a routing controller to produce an access code identifying a communications channel on a gateway through which communications between the wireless device and the destination node can be conducted, in response to receiving the access code request message, such that the access code server produces the access code based on an area code associated with the wireless device and such that the access code is useable by the wireless device to initiate communications with the destination node through the communications channel; and

transmit an access code reply message including the access code to the wireless device.

MOBILE GATEWAY

ABSTRACT OF THE DISCLOSURE

A method of initiating a call to a callee using a mobile telephone involves: receiving, from a user of the mobile telephone, a callee identifier associated with the callee; transmitting an access code request message to an access server, the access code request message including the callee identifier; receiving an access code reply message from the access server in response to the access code request message, the access code reply message including an access code different from the callee identifier and associated with the callee identifier; and initiating a call with the mobile telephone using the access code to identify the callee.

16273376
092213

T-Mobile Exhibit 1002

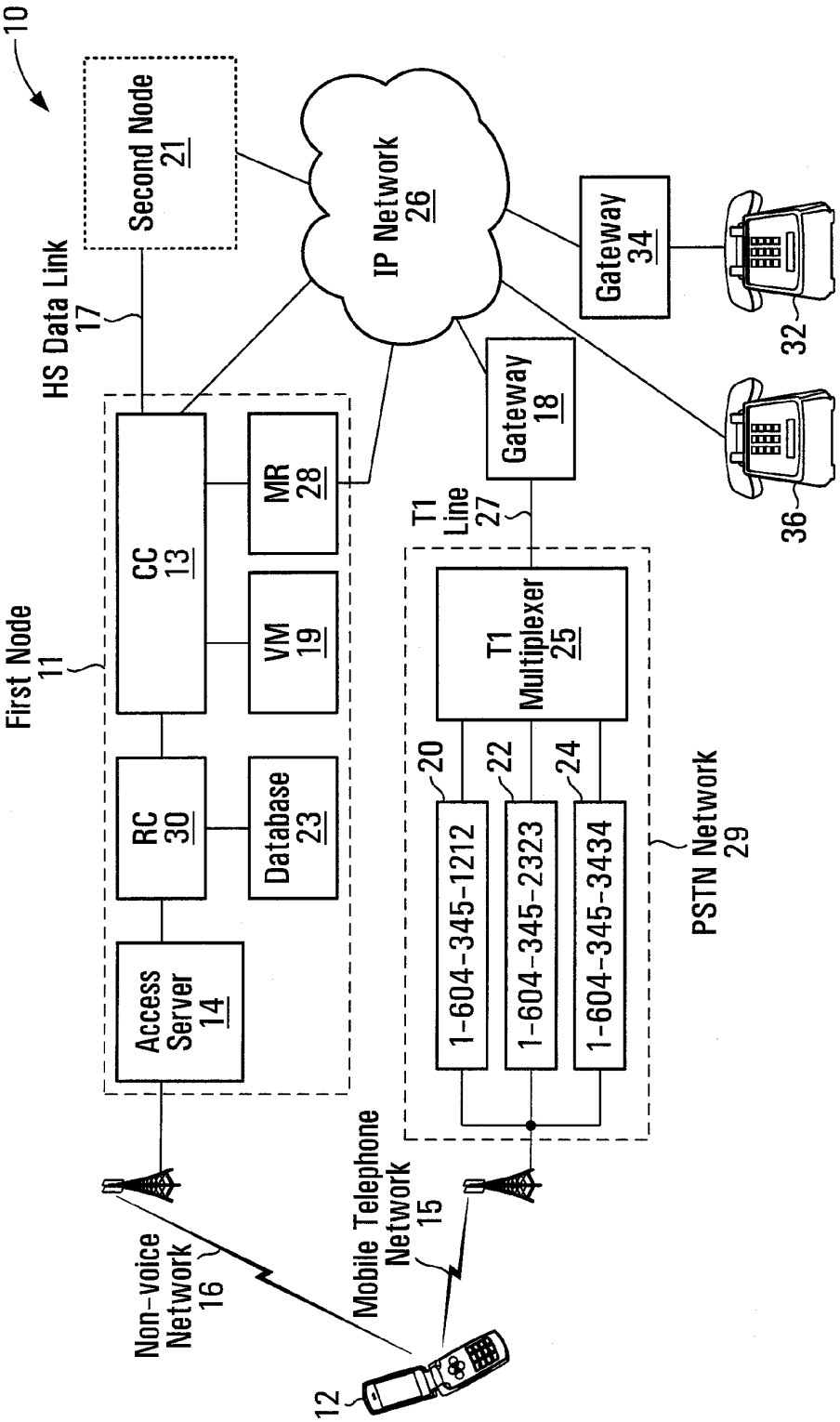


FIG. 1

T-Mobile Exhibit 1002

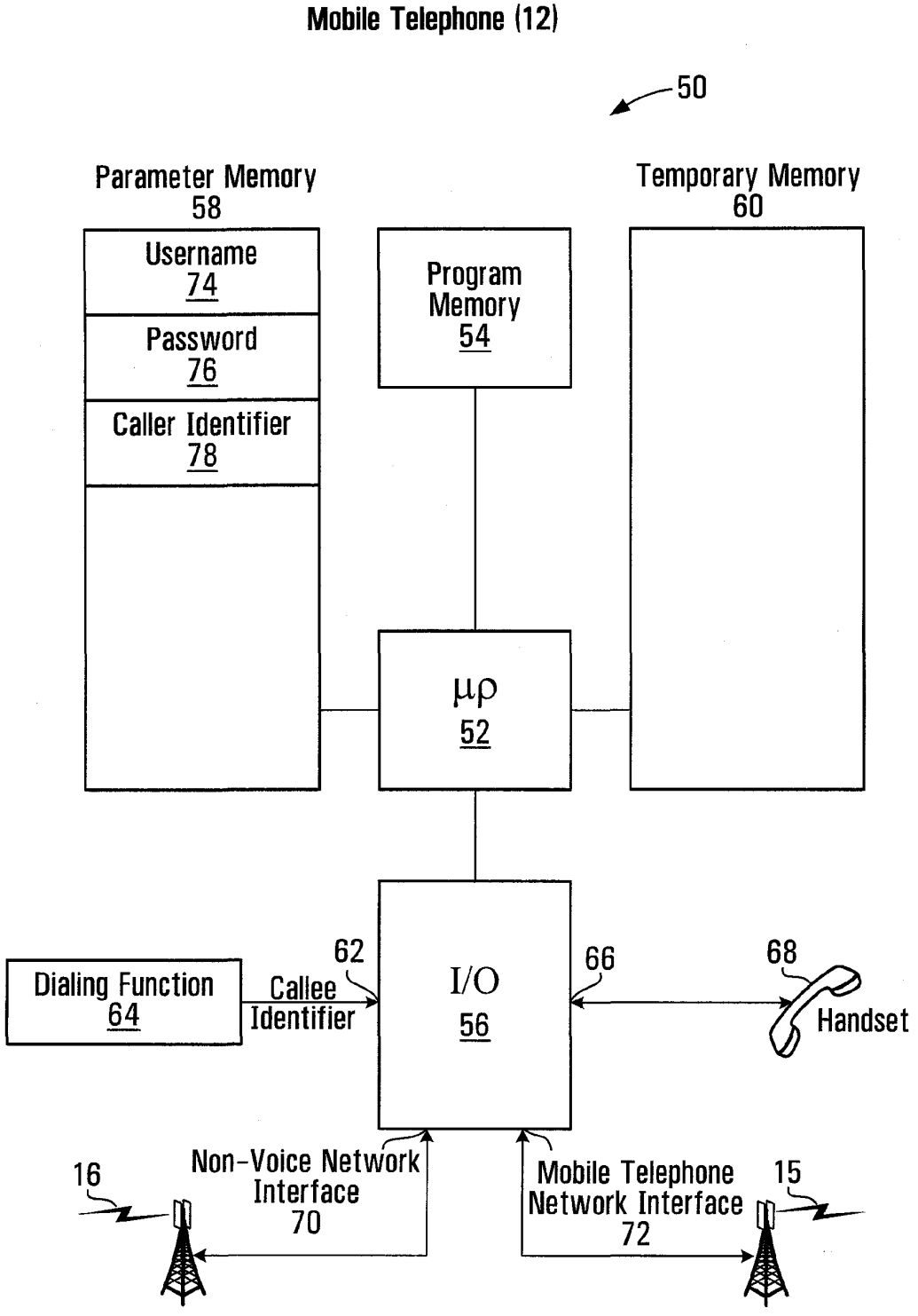

Mobile Telephone (12)
50
Parameter Memory
58
Username
74
Password
76
Caller Identifier
78
Program
Memory
54
Temporary Memory
60
μρ
52
I/O
56
62
66
68
Dialing Function
64
Callee
Identifier
Handset
16
Non-Voice Network
Interface
70
Mobile Telephone
Network Interface
72
15

FIG. 2

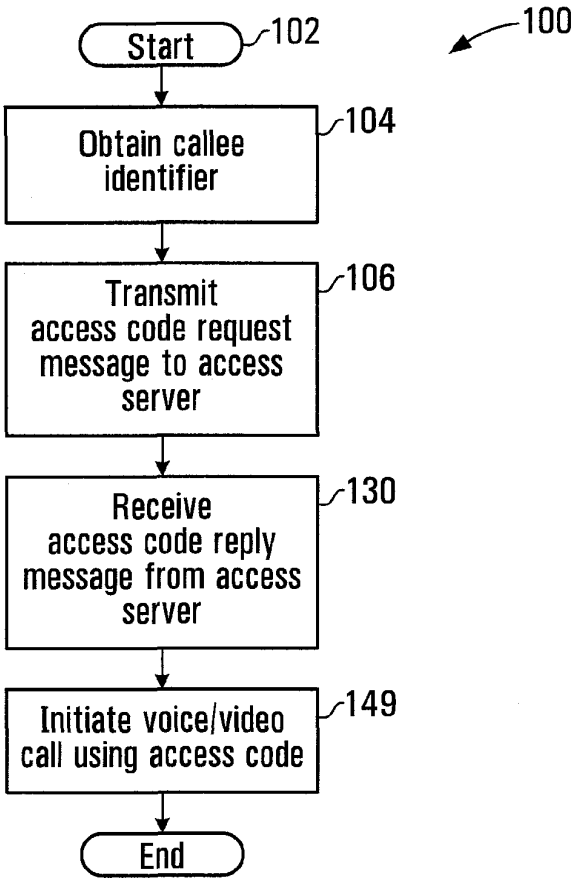


FIG. 3

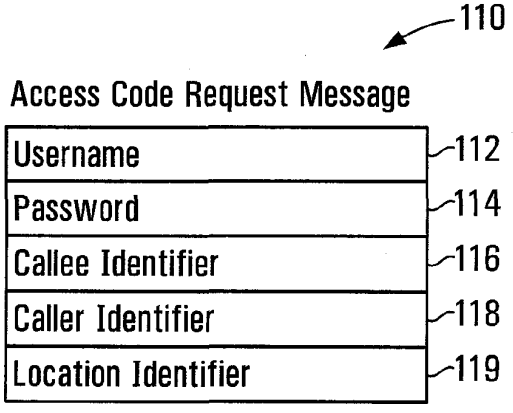


FIG. 4

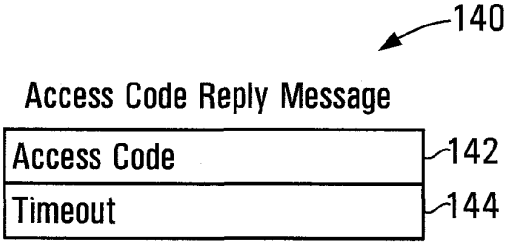


FIG. 5

T-Mobile Exhibit 1002

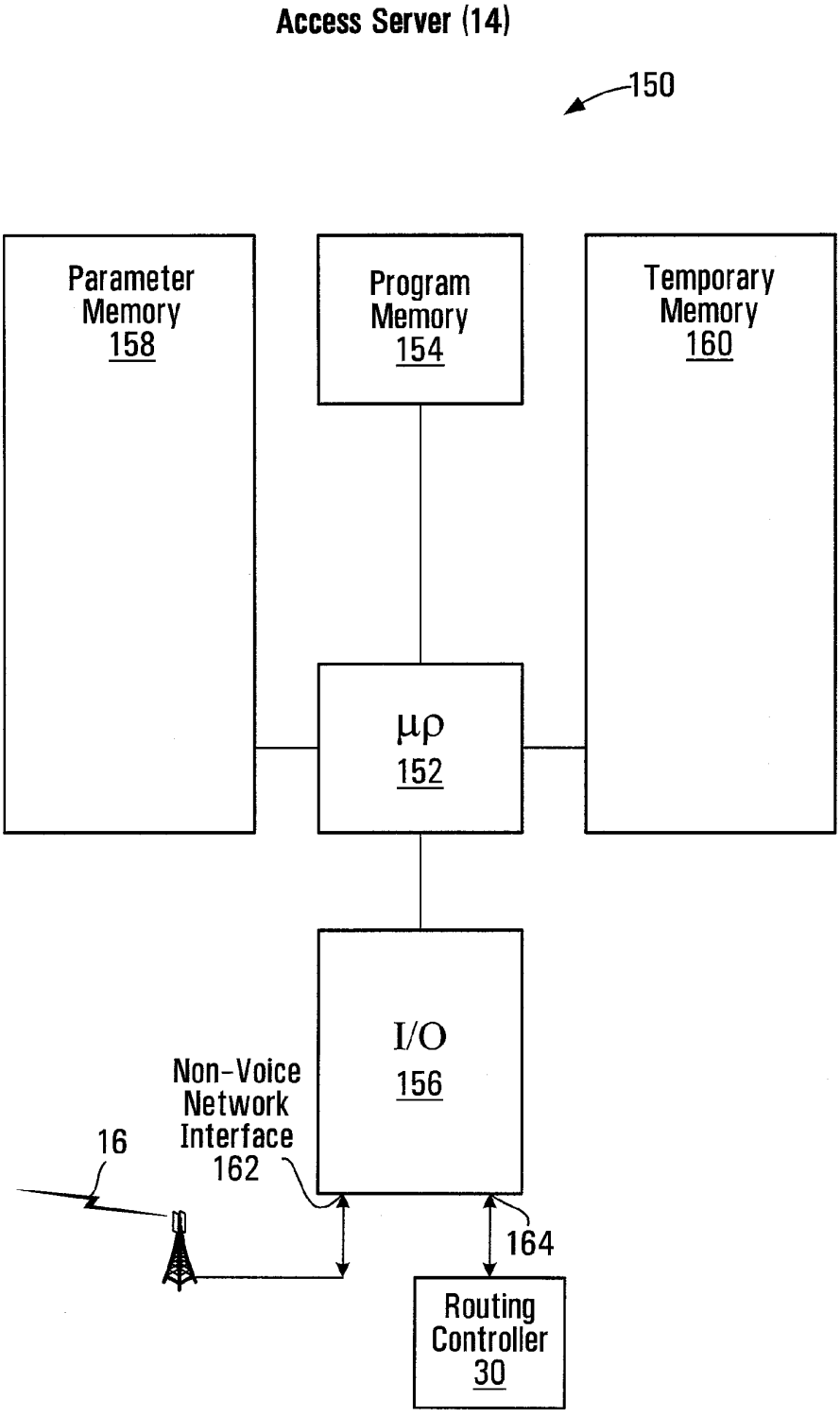


FIG. 6

T-Mobile Exhibit 1002

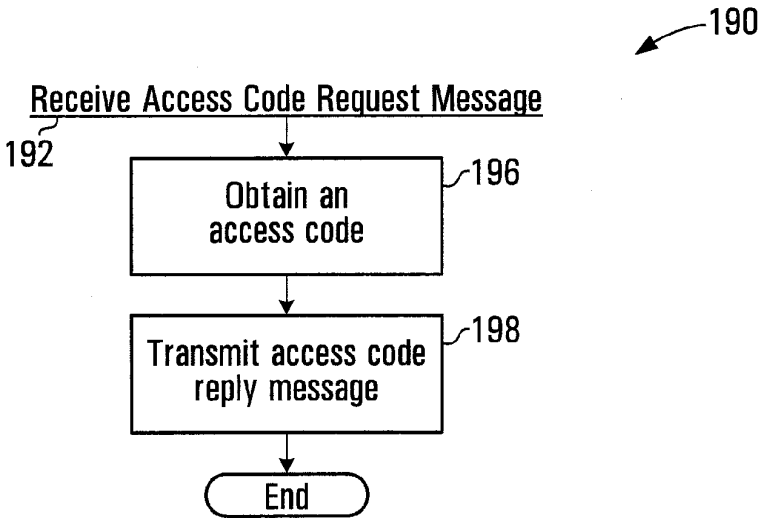

190
Receive Access Code Request Message
192
Obtain an access code
196
Transmit access code reply message
198
End

FIG. 7

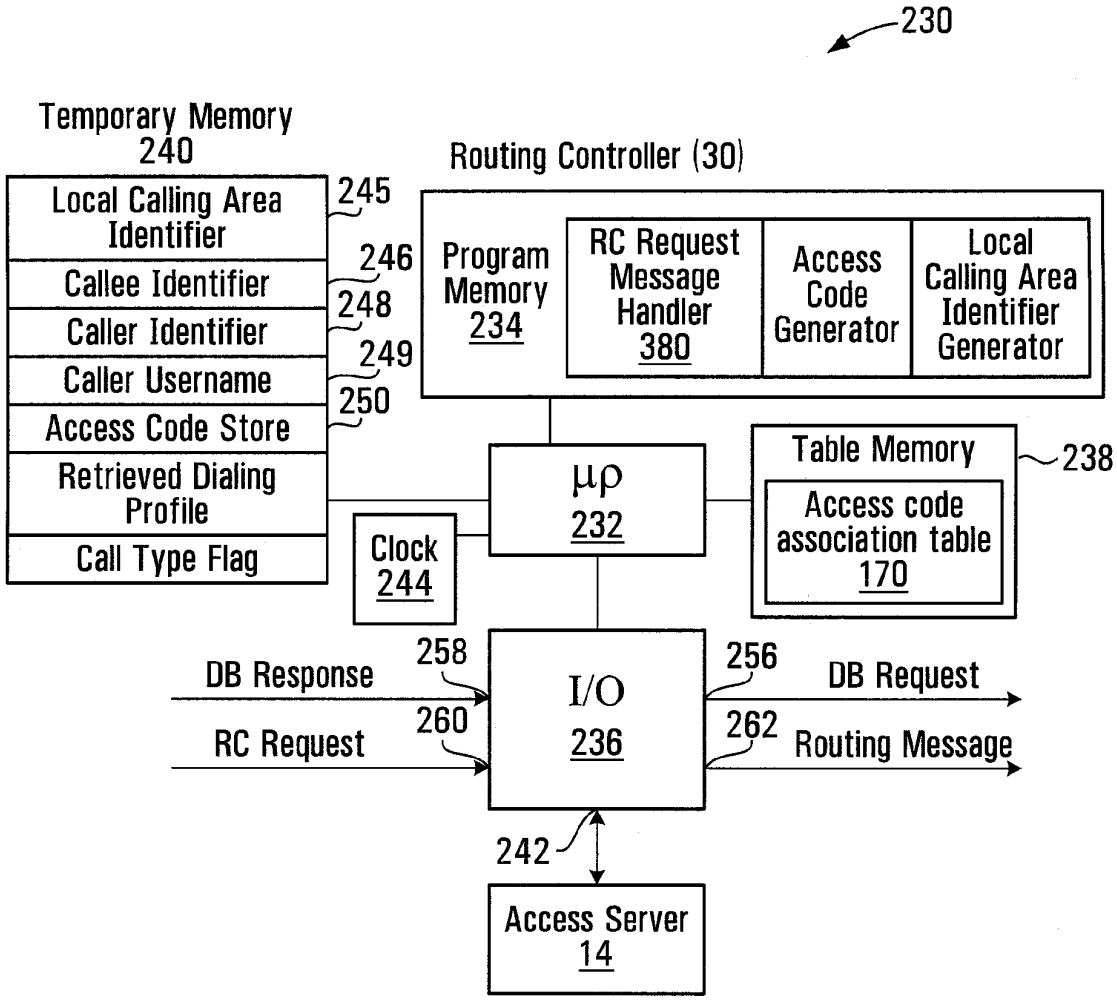

230
Temporary Memory
240
Local Calling Area Identifier
245
Callee Identifier
246
Caller Identifier
248
Caller Username
249
Access Code Store
250
Retrieved Dialing Profile
Call Type Flag
Routing Controller (30)
Program Memory
234
RC Request Message Handler
380
Access Code Generator
Local Calling Area Identifier Generator
μρ
232
Clock
244
Table Memory
238
Access code association table
170
DB Response
258
RC Request
260
I/O
236
256
DB Request
262
Routing Message
242
Access Server
14

FIG. 8

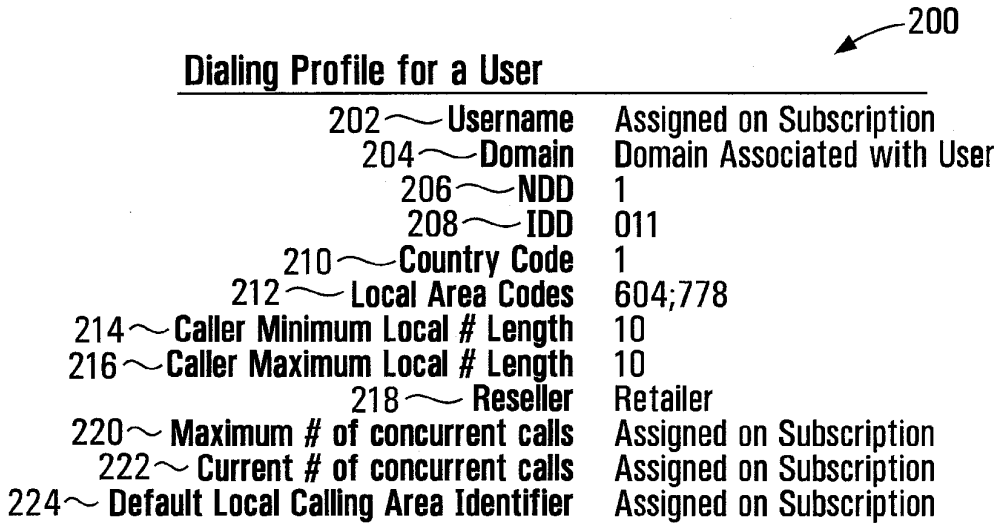


FIG. 9

T-Mobile Exhibit 1002

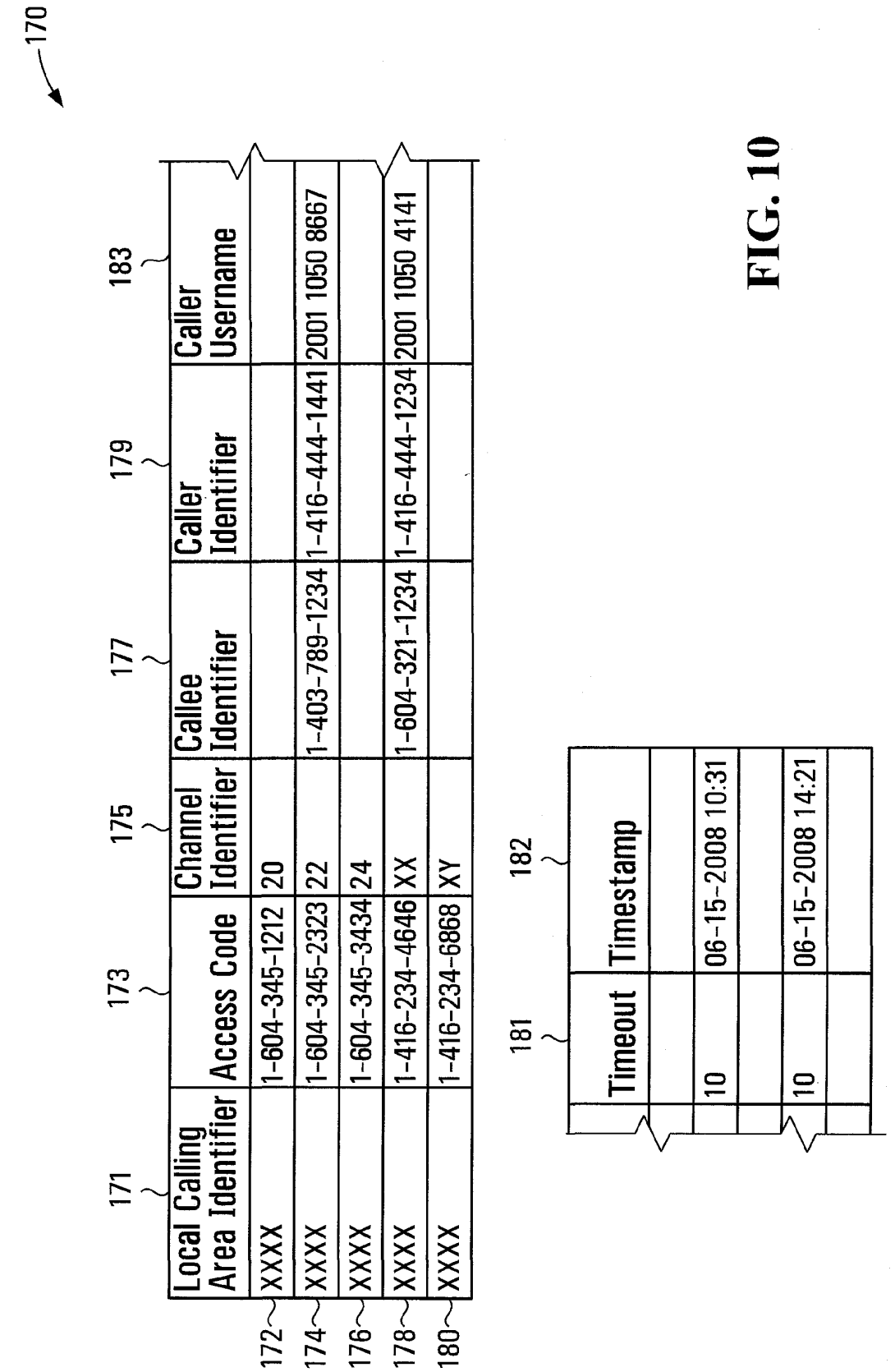


FIG. 10

T-Mobile Exhibit 1002

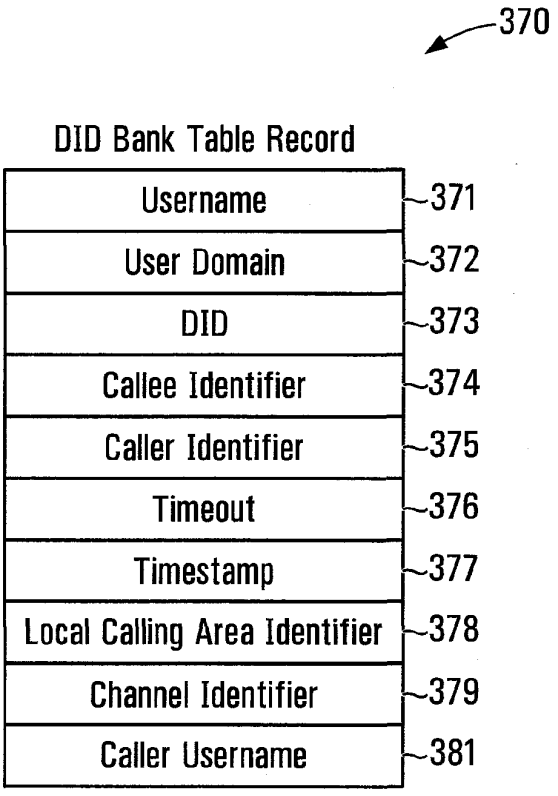


FIG. 11

T-Mobile Exhibit 1002

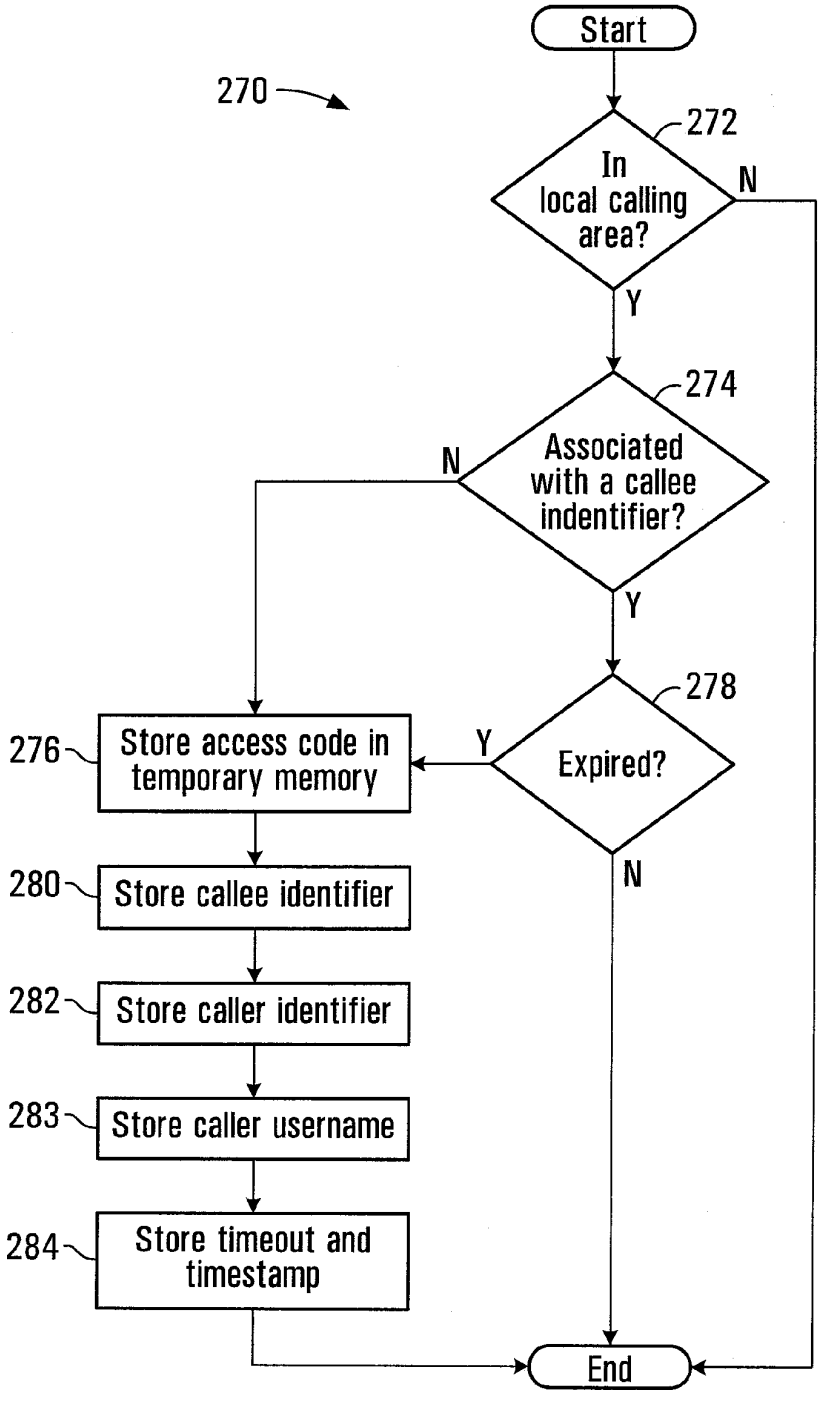


FIG. 12

T-Mobile Exhibit 1002

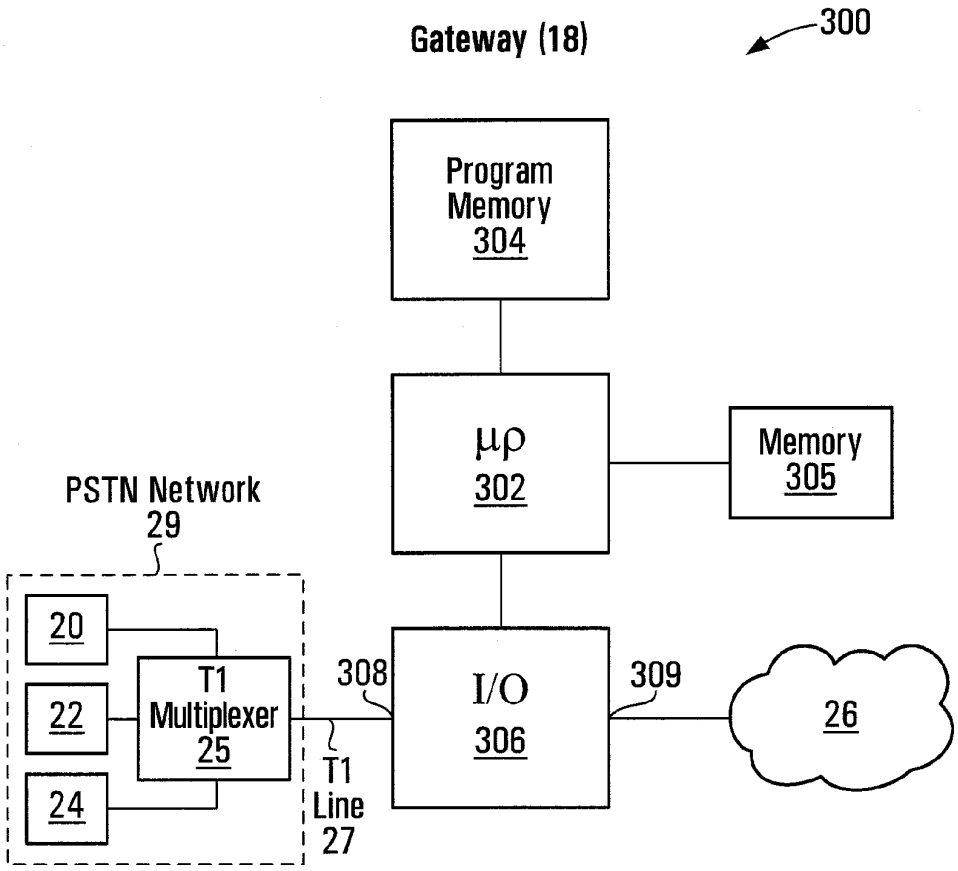


FIG. 13

310

SIP Invite Message

312	Caller Identifier	1-604-678-1234@20.14.102.5
314	Callee Identifier	1-604-345-1212
315	Digest Parameter	XXXXXXX
316	Call Identifer	FF10@20.14.102.5
317	IP Address	20.14.102.5
318	Gateway UDP Port	12378

FIG. 14

T-Mobile Exhibit 1002

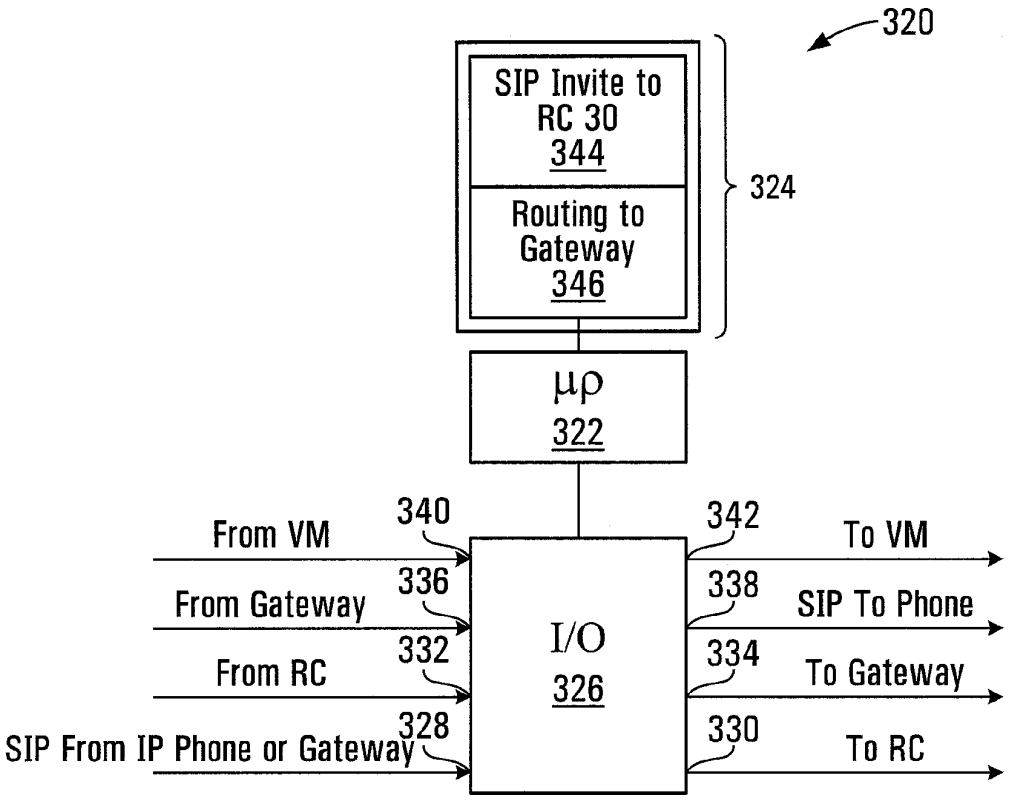


FIG. 15

T-Mobile Exhibit 1002

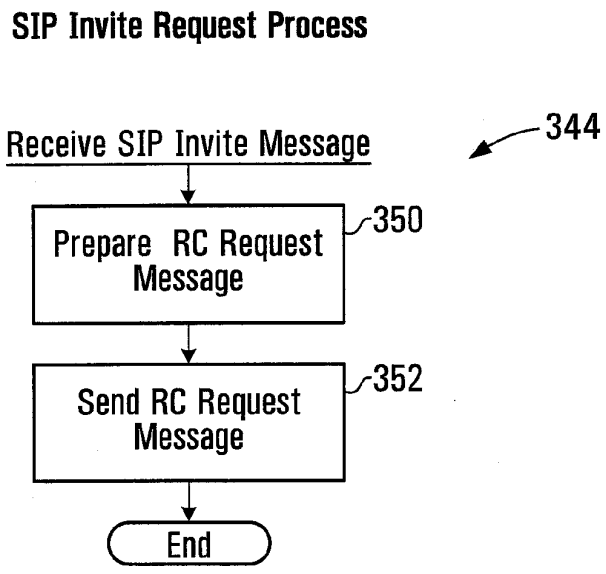


FIG. 16

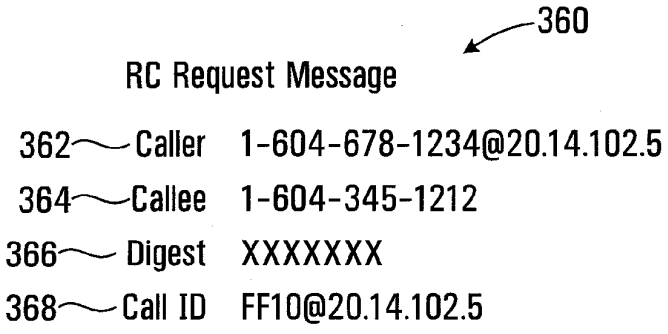


FIG. 17

T-Mobile Exhibit 1002

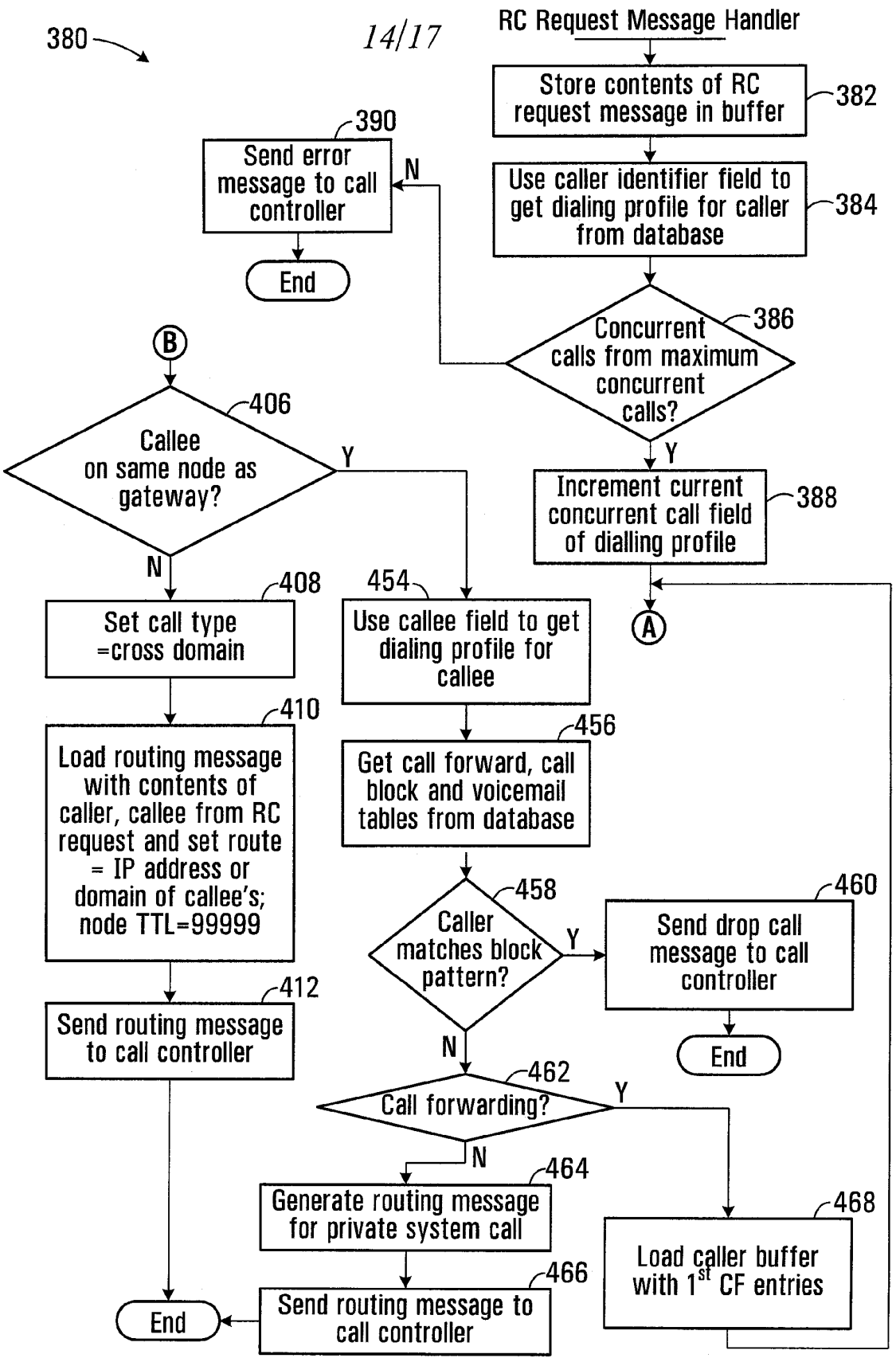


FIG. 18A

T-Mobile Exhibit 1002

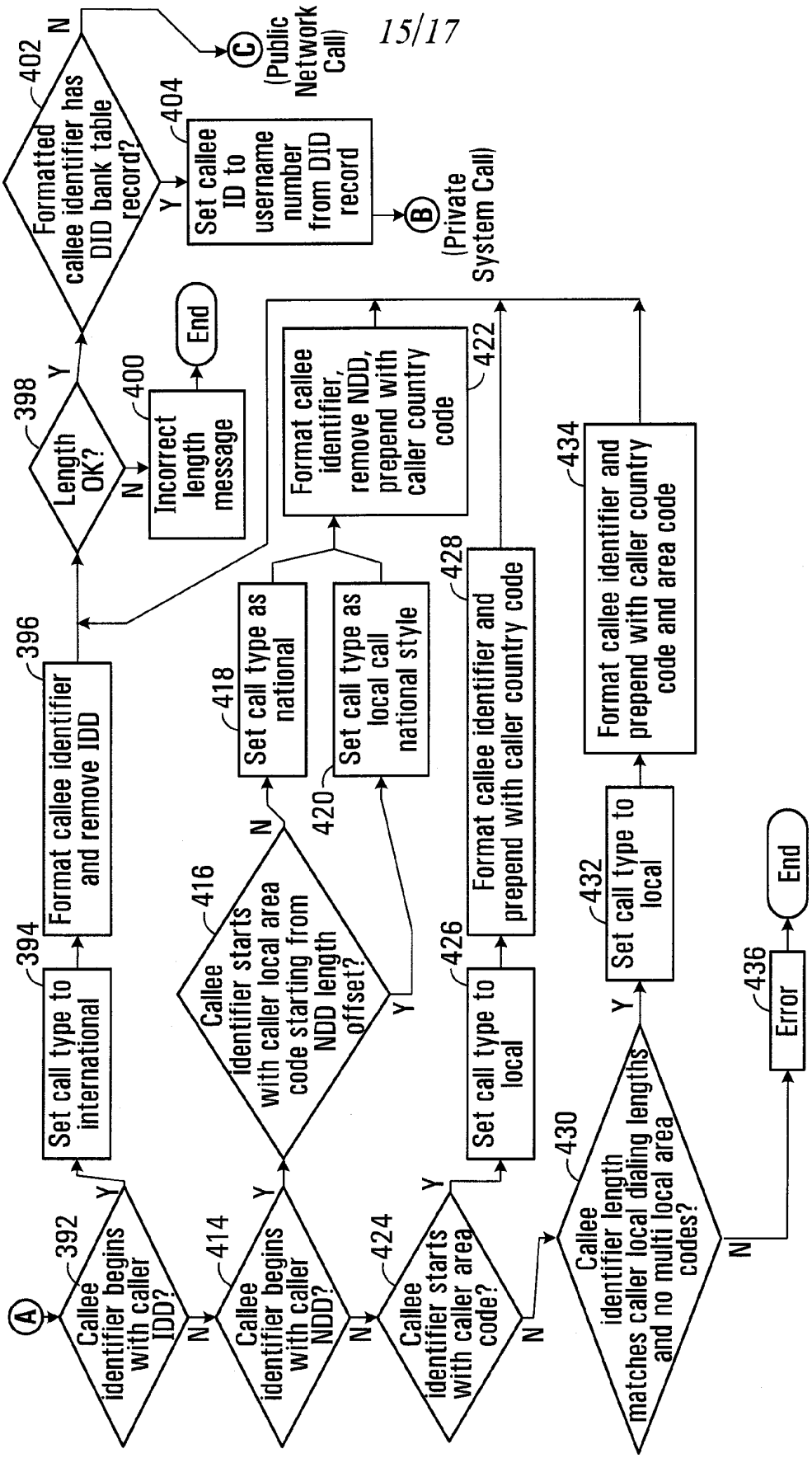


FIG. 18B

T-Mobile Exhibit 1002

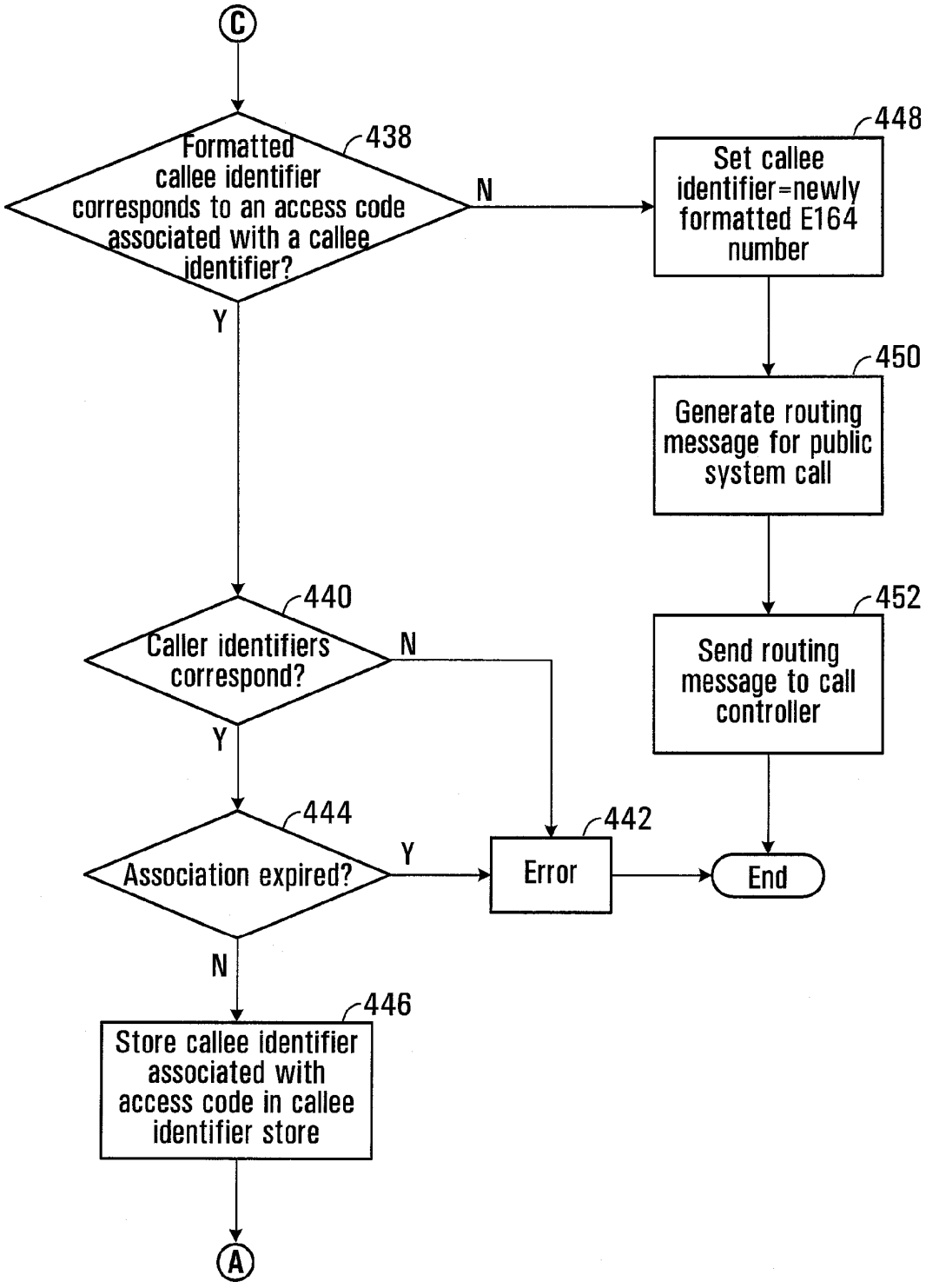


FIG. 18C

T-Mobile Exhibit 1002

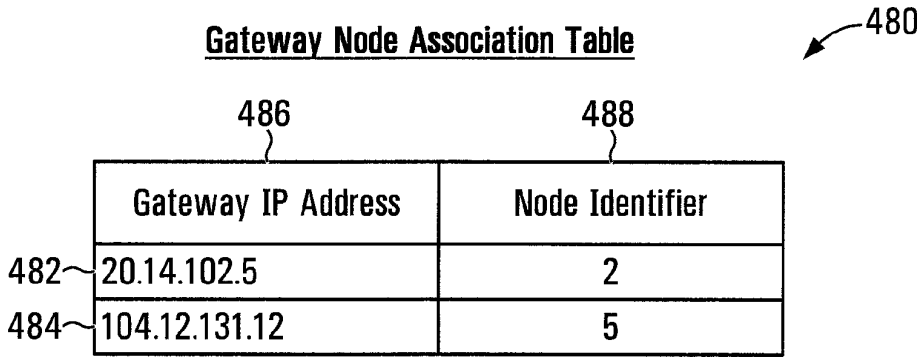


FIG. 19

T-Mobile Exhibit 1002

DECLARATION FOR UTILITY OR DESIGN APPLICATION UNDER 37 CFR 1.63

Docket No.: SMARB19.004APC

Title: MOBILE GATEWAY

Inventors: Johan Emil Viktor Bjorsell, Maksym Sobolyev, Pentti Kalevi Huttunen, Emil Malak

Please Direct All Correspondence to Customer Number 20995

This Declaration is directed to the invention described and claimed the application that was filed on July 28, 2009, was assigned International App. No. PCT/CA2009/001062, entered the national phase on January 27, 2011, and was further assigned U.S. Patent App. No. 13/056277.

As a below named inventor:

I believe the inventors named below to be the original and first inventors of the subject matter which is described and claimed and for which a patent is sought;

I have reviewed and understand the contents of the above-identified application, including the claims; and

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

The application was originally filed with an Application Data Sheet (ADS). The ADS sets forth any applicable Foreign Priority Claims under 35 USC § 119, and sets forth the full mailing address and residence of each inventor whose signature appears below as allowed under 37 CFR 1.63(c). The ADS also sets forth any Domestic Priority Claims under 35 USC §§ 119(e), 120, 121, and 365.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful, false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first inventor: Johan Emil Viktor Bjorsell

Signature: _____ Date: August 2nd 2013

Citizenship: ~~SE~~ CA EB

T-Mobile Exhibit 1002

DECLARATION FOR UTILITY OR DESIGN APPLICATION UNDER 37 CFR 1.63

Title: MOBILE GATEWAY

Inventors: Johan Emil Viktor Bjorsell, Maksym Sobolyev, Pentti Kalevi Huttunen, Emil Malak

Please Direct All Correspondence to Customer Number 20995

Full name of second inventor: Maksym Sobolyev

Signature: _____ Date: August 2nd, 2013

Citizenship: ~~UA~~ CA

Full name of third inventor: Pentti Kalevi Huttunen

Signature: _____ Date: _____

Citizenship: CA

Full name of fourth inventor: Emil Malak

Signature: _____ Date: _____

Citizenship: CA

Send Correspondence To:
KNOBBE, MARTENS, OLSON & BEAR, LLP
Customer No. 20995

15836998
071913

DECLARATION FOR UTILITY OR DESIGN APPLICATION UNDER 37 CFR 1.63

Docket No.: SMARB19.004APC

Title: MOBILE GATEWAY

Inventors: Johan Emil Viktor Bjorsell, Maksym Sobolyev, Pentti Kalevi Huttunen, Emil Malak

Please Direct All Correspondence to Customer Number 20995

This Declaration is directed to the invention described and claimed the application that was filed on July 28, 2009, was assigned International App. No. PCT/CA2009/001062, entered the national phase on January 27, 2011, and was further assigned U.S. Patent App. No. 13/056277.

As a below named inventor:

I believe the inventors named below to be the original and first inventors of the subject matter which is described and claimed and for which a patent is sought;

I have reviewed and understand the contents of the above-identified application, including the claims; and

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

The application was originally filed with an Application Data Sheet (ADS). The ADS sets forth any applicable Foreign Priority Claims under 35 USC § 119, and sets forth the full mailing address and residence of each inventor whose signature appears below as allowed under 37 CFR 1.63(c). The ADS also sets forth any Domestic Priority Claims under 35 USC §§ 119(e), 120, 121, and 365.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful, false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first inventor: Johan Emil Viktor Bjorsell

Signature: _____ Date: August 2nd 2013

Citizenship: ~~SE~~ CA EB

T-Mobile Exhibit 1002

DECLARATION FOR UTILITY OR DESIGN APPLICATION UNDER 37 CFR 1.63

Docket No.: SMARB19.004APC Page 2 of 2

Title: MOBILE GATEWAY

Inventors: Johan Emil Viktor Bjorsell, Maksym Sobolyev, Pentti Kalevi Huttunen, Emil Malak

Please Direct All Correspondence to Customer Number 20995

Full name of **second** inventor: Maksym Sobolyev

Signature: _____ Date: _____

Citizenship: UA

Full name of **third** inventor: Pentti Kalevi Huttunen

Signature: _____ Date: Aug 02, 2013.

Citizenship: CA

Full name of **fourth** inventor: Emil Malak

Signature: _____ Date: _____

Citizenship: CA

Send Correspondence To:
KNOBBE, MARTENS, OLSON & BEAR, LLP
Customer No. 20995

15836998
071913

DECLARATION FOR UTILITY OR DESIGN APPLICATION UNDER 37 CFR 1.63

Docket No.: SMARB19.004APC

Title: MOBILE GATEWAY

Inventors: Johan Emil Viktor Bjorsell, Maksym Sobolyev, Pentti Kalevi Huttunen, Emil Malak

Please Direct All Correspondence to Customer Number 20995

This Declaration is directed to the invention described and claimed the application that was filed on July 28, 2009, was assigned International App. No. PCT/CA2009/001062, entered the national phase on January 27, 2011, and was further assigned U.S. Patent App. No. 13/056277.

As a below named inventor:

I believe the inventors named below to be the original and first inventors of the subject matter which is described and claimed and for which a patent is sought;

I have reviewed and understand the contents of the above-identified application, including the claims; and

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

The application was originally filed with an Application Data Sheet (ADS). The ADS sets forth any applicable Foreign Priority Claims under 35 USC § 119, and sets forth the full mailing address and residence of each inventor whose signature appears below as allowed under 37 CFR 1.63(c). The ADS also sets forth any Domestic Priority Claims under 35 USC §§ 119(e), 120, 121, and 365.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful, false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first inventor: Johan Emil Viktor Bjorsell

Signature: _____ Date: August 2nd 2013

Citizenship: ~~SE~~ CA EB

T-Mobile Exhibit 1002

DECLARATION FOR UTILITY OR DESIGN APPLICATION UNDER 37 CFR 1.63

Docket No.: SMARB19.004APC

Title: MOBILE GATEWAY

Inventors: Johan Emil Viktor Bjorsell, Maksym Sobolyev, Pentti Kalevi Huttunen, Emil Malak

Please Direct All Correspondence to Customer Number 20995

Full name of second inventor: Maksym Sobolyev

Signature: _____ Date: _____

Citizenship: UA

Full name of third inventor: Pentti Kalevi Huttunen

Signature: _____ Date: _____

Citizenship: CA

Full name of fourth inventor: Emil Malak

Signature: _____ Date: 2nd August 2013

Citizenship: CA

Send Correspondence To:
KNOBBE, MARTENS, OLSON & BEAR, LLP
Customer No. 20995

15836998
071913

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	MOBILE GATEWAY
First Named Inventor/Applicant Name:	Johan Emil Viktor Björsell
Filer:	John M Carson/Deborah LaGuardia
Attorney Docket Number:	SMARB19.004C1

Filed as Small Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Utility filing Fee (Electronic filing)	4011	1	70	70
Utility Search Fee	2111	1	300	300
Utility Examination Fee	2311	1	360	360
Pages:				
Claims:				
Claims in excess of 20	2202	109	40	4360
Independent Claims in Excess of 3	2201	5	210	1050
Miscellaneous-Filing:				

T-Mobile Exhibit 1002

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**6140**

Electronic Acknowledgement Receipt

EFS ID:	16944486
Application Number:	14035806
International Application Number:	
Confirmation Number:	5562
Title of Invention:	MOBILE GATEWAY
First Named Inventor/Applicant Name:	Johan Emil Viktor Björsell
Customer Number:	20995
Filer:	John M Carson/Kevin Kraus
Filer Authorized By:	John M Carson
Attorney Docket Number:	SMARB19.004C1
Receipt Date:	24-SEP-2013
Filing Date:	
Time Stamp:	19:52:50
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$6140
RAM confirmation Number	6664
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)

T-Mobile Exhibit 1002

1	Application Data Sheet	SMARB19004C1ads.pdf	242396 8f264adc3681eb2df34365385530b9def10d90df	no	4
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
2		SMARB19004C1specification.PDF	3693425 8f3829852850a86ac95f3796bd5060eb307933cc	yes	76

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Specification	1	53
	Claims	54	75
	Abstract	76	76

Warnings:					
Information:					
3	Drawings-only black and white line drawings	SMARB19004C1drawings.PDF	290195 060e937a44a79e1b3abad7d4ee57f68564d4da343	no	17
Warnings:					
Information:					
4	Oath or Declaration filed	SMARB19004C1declaration.PDF	205933 76b1c21f5e51b5db67c4e85819afce82989eda92	no	6
Warnings:					
Information:					
5	Fee Worksheet (SB06)	fee-info.pdf	38375 86ad1855ade0f5822bfcb67d7e0ae65aba6915b0	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	4470324		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Please Direct All Correspondence to Customer Number 20995

RESCISSION OF ANY PRIOR DISCLAIMERS AND REQUEST TO REVISIT ART

Inventor	:	Johan Emil Viktor Björsell et al.
App. No.	:	14/035,806
Filed	:	September 24, 2013
For	:	MOBILE GATEWAY
Examiner	:	Unknown
Art Unit	:	2653
Conf. No.	:	5562

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

The claims of the present application are different and possibly broader in scope than the claims pursued in the parent application(s). To the extent any prior amendments or characterizations of the scope of any claim or referenced art could be construed as a disclaimer of any subject matter supported by the present disclosure, Applicant hereby rescinds and retracts such disclaimer. Accordingly, the references previously considered in the parent application(s) may need to be re-visited.

Please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

Knobbe, Martens, Olson & Bear, LLP

Respectfully submitted,

Dated: 10/8/13

John M. Carson
Registration No. 34,303
Attorney of Record
Customer No. 20995
(858) 707-4000

16414085:djl
100813

Electronic Acknowledgement Receipt

EFS ID:	17074718
Application Number:	14035806
International Application Number:	
Confirmation Number:	5562
Title of Invention:	MOBILE GATEWAY
First Named Inventor/Applicant Name:	Johan Emil Viktor Björsell
Customer Number:	20995
Filer:	John M Carson/Christina Graul
Filer Authorized By:	John M Carson
Attorney Docket Number:	SMARB19.004C1
Receipt Date:	08-OCT-2013
Filing Date:	24-SEP-2013
Time Stamp:	18:39:23
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	SMARB19004C1rescission.pdf	44731 4d8af66701f314850430d3f0b9df09aff98f2e38	no	1
Warnings:					
Information:					

Total Files Size (in bytes):	44731

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 14/035,806

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	70		N/A	
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	300		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	360		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	129 minus 20 =	* 109	x 40 =	4360	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	8 minus 3 =	* 5	x 210 =	1050			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	6140		TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

T-Mobile Exhibit 1002

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
14/035,806	09/24/2013	2653	6140	SMARB19.004C1	129	8

CONFIRMATION NO. 5562

20995
KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

FILING RECEIPT

OC000000064286004

Date Mailed: 10/16/2013

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

Johan Emil Viktor Björsell, Vancouver, CANADA;
Maksym Sobolyev, New Westminster, CA;
Pentti Kalevi Huttunen, Vancouver, CANADA;
Emil Malak, Vancouver, CANADA;

Applicant(s)

Johan Emil Viktor Björsell, Vancouver, CANADA;
Maksym Sobolyev, New Westminster, CA;
Pentti Kalevi Huttunen, Vancouver, CANADA;
Emil Malak, Vancouver, CANADA;

Assignment For Published Patent Application

Digifonica (International) Limited, Vancover, CANADA

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 13/056,277 01/27/2011
which is a 371 of PCT/CA2009/001062 07/28/2009
which claims benefit of 61/129,898 07/28/2008

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

If Required, Foreign Filing License Granted: 10/08/2013

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/035,806**

Projected Publication Date: 01/23/2014

Non-Publication Request: No

Early Publication Request: No
**** SMALL ENTITY ****
Title

MOBILE GATEWAY

Preliminary Class

379

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/035,806	09/24/2013	Johan Emil Viktor Björsell	SMARB19.004C1

CONFIRMATION NO. 5562

20995
KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

NOTICE

OC000000064286005

Date Mailed: 10/16/2013

INFORMATIONAL NOTICE TO APPLICANT

Applicant is notified that the above-identified application contains the deficiencies noted below. No period for reply is set forth in this notice for correction of these deficiencies. However, if a deficiency relates to the inventor's oath or declaration, the applicant must file an oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each actual inventor no later than the expiration of the time period set in the "Notice of Allowability" to avoid abandonment. See 37 CFR 1.53(f).

The item(s) indicated below are also required and should be submitted with any reply to this notice to avoid further processing delays.

A new inventor's oath or declaration that identifies this application (e.g., by Application Number and filing date) is required. The inventor's oath or declaration does not comply with 37 CFR 1.63 in that it:

- does not state that the above-identified application was made or authorized to be made by the person executing the oath or declaration.
  Johan Emil Viktor Björsell
  Maksym Sobolyev
  Pentti Kalevi Huttunen
  Emil Malak

To: jayna.cartee@knobbe.com,efiling@knobbe.com,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 20995

Oct 16, 2013 05:22:13 AM

Dear PAIR Customer:

KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614
UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 20995 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

Disclaimer:
The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

Application	Document	Mailroom Date	Attorney Docket No.
14035806	APP.FILE.REC	10/16/2013	SMARB19.004C1
	M327	10/16/2013	SMARB19.004C1

To view your correspondence online or update your email addresses, please visit us anytime at https://sportal.uspto.gov/secure/myportal/privatepair.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Unassigned
SHEET 1 OF 7	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	4,916,491	4/10/1990	Katoh	
	2	4,992,971	2/12/1991	Hayashi	
	3	5,146,491	9/8/1992	Silver et al.	
	4	5,247,571	9/21/1993	Kay et al .	
	5	5,303,297	4/12/1994	Hillis	
	6	5,359,642	10/25/1994	Castro	
	7	5,425,085	6/13/1995	Weinberger et al.	
	8	5,440,621	8/8/1995	Castro	
	9	5,454,030	9/26/1995	de Oliveira et al.	
	10	5,469,497	11/21/1995	Pierce et al.	
	11	5,506,893	4/9/1996	Buscher et al.	
	12	5,519,769	5/21/1996	Weinberger et al.	
	13	5,559,871	9/24/1996	Smith	
	14	5,590,133	12/31/1996	Billstrom et al.	
	15	5,608,786	3/4/1997	Gordon	
	16	5,621,787	4/15/1997	McKoy et al.	
	17	5,633,913	5/27/1997	Talarmo	
	18	5,661,790	8/26/1997	Hsu	
	19	5,712,907	1/27/1998	Wegner et al.	
	20	5,724,355	3/3/1998	Bruno et al.	
	21	5,726,984	3/10/1998	Kubler et al.	
	22	5,737,414	4/7/1998	Walker et al.	
	23	5,751,961	5/12/1998	Smyk	
	24	5,793,762	8/11/1998	Penners et al.	
	25	5,799,072	8/25/1998	Vulcan et al.	
	26	5,802,502	9/1/1998	Gell et al.	
	27	5,825,863	10/20/1998	Walker	
	28	5,828,740	10/27/1998	Khuc et al.	

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Unassigned
SHEET 2 OF 7	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	29	5,838,682	11/17/1998	Dekelbaum et al.	
	30	5,845,267	12/1/1998	Ronen	
	31	5,850,433	12/15/1998	Rondeau	
	32	5,864,610	1/26/1999	Ronen	
	33	5,867,495	2/2/1999	Elliott et al.	
	34	5,883,891	3/16/1999	Williams et al.	
	35	5,889,774	3/30/1999	Mirashrafi et al.	
	36	5,905,736	5/18/1999	Ronen et al.	
	37	5,907,547	5/25/1999	Foladare et al.	
	38	5,910,946	6/8/1999	Csapo	
	39	5,915,005	6/22/1999	He	
	40	5,923,659	7/13/1999	Curry et al.	
	41	5,930,343	7/27/1999	Vasquez	
	42	5,937,045	8/10/1999	Yaoya et al.	
	43	5,940,598	8/17/1999	Strauss et al.	
	44	5,953,504	9/14/1999	Sokal et al.	
	45	5,956,391	9/21/1999	Melen et al.	
	46	5,970,477	10/19/1999	Roden	
	47	5,974,043	10/26/1999	Solomon	
	48	5,991,291	11/23/1999	Asai et al .	
	49	6,005,926	12/21/1999	Mashinsky	
	50	6,014,379	1/11/2000	White et al.	
	51	6,021,126	2/1/2000	White et al.	
	52	6,052,445	4/18/2000	Bashoura et al.	
	53	6,058,300	5/2/2000	Hanson	
	54	6,069,890	5/30/2000	White et al.	
	55	6,073,013	6/6/2000	Agre et al.	
	56	6,078,647	6/20/2000	D'Eletto	
	57	6,104,704	8/15/2000	Buhler et al.	

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Unassigned
SHEET 3 OF 7	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	58	6,104,711	8/15/2000	Voit	
	59	6,115,737	9/5/2000	Ely et al.	
	60	6,128,304	10/3/2000	Gardell et al.	
	61	6,137,869	10/24/2000	Voit et al	
	62	6,141,404	10/31/2000	Westerlage et al.	
	63	6,151,385	11/21/2000	Reich et al.	
	64	6,188,752	2/13/2001	Lesley	
	65	6,282,574	8/28/2001	Voit	
	66	6,298,062	10/2/2001	Gardell et al.	
	67	6,351,464	2/26/2002	Galvin et al.	
	68	6,359,880	3/19/2002	Curry et al.	
	69	6,430,275	8/6/2002	Voit et al	
	70	6,507,644	1/14/2003	Henderson et al.	
	71	6,597,686	7/23/2003	Darek A Smyk	
	72	6,674,745	1/6/2004	Schuster et al.	
	73	6,724,860	4/20/2004	Stumer et al.	
	74	6,744,858	6/1/2004	Ryan et al.	
	75	6,766,159	7/20/2004	Lindholm	
	76	6,798,767	9/29/2004	Alexander et al.	
	77	6,819,929	11/16/2004	Antonucci et al.	
	78	6,954,453	10/11/2005	Schindler	
	79	6,963,557	11/8/2005	Mark Clinton Knox	
	80	7,046,658	5/16/2006	Vinay Kundaje	
	81	7,055,174	5/30/2006	Cope et al.	
	82	7,068,772	6/27/2006	Widger et al.	
	83	7,079,526	7/18/2006	Wipliez et al.	
	84	7,120,682	10/10/2006	Salama	
	85	7,212,522	5/1/2007	Shankar et al.	
	86	7,454,510	11/18/2008	Kleyman et al.	

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Unassigned
SHEET 4 OF 7	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	87	7,950,046	5/24/2011	Kropivny, Alexander	
	88	8,116,307	2/14/2012	Thesayi et al.	
	89	2002/0051518 A1	5/2/2002	Bondy et al.	
	90	2002/0116464 A1	8/22/2002	Mak	
	91	2002/0122391 A1	9/5/2002	Shalit, Andrew L.	
	92	2003/0200311 A1	10/23/2003	Baum	
	93	2003/0219103 A1	11/27/2003	Rao et al.	
	94	2004/0022237 A1	2/5/2004	Elliot et al.	
	95	2004/0157629 A1	8/12/2004	Kallio et al.	
	96	2004/0165709 a1	8/26/2004	Pence et al.	
	97	2004/0181599 A1	9/16/2004	Kreusch et al.	
	98	2004/0202295 A1	10/14/2004	Shen et al.	
	99	2004/0240439 A1	12/2/2004	Castleberry et al.	
	100	2004/0255126 A1	12/16/2004	Reith	
	101	2005/0025043 A1	2/3/2005	Mussman et al	
	102	2005/0083911 A1	4/21/2005	Grabelsky et al.	
	103	2005/0094651 A1	5/5/2005	Lutz et al.	
	104	2005/0169248 A1	8/4/2005	Truesdale et al.	
	105	2005/0174937 A1	8/11/2005	Scoggins et al.	
	106	2005/0177843 A1	8/11/2005	Williams	
	107	2006/0072547 A1	4/6/2006	Florkey et al.	
	108	2006/0072550 A1	4/6/2006	Davis et al.	
	109	2006/0093135 A1	5/4/2006	Fiatal et al.	
	110	2006/0111116 A1	5/25/2006	Palmer et al.	
	111	2006/0153342 A1	7/13/2006	Syouichi Sasaki	
	112	2006/0160565 A1	7/20/2006	Singh et al.	
	113	2006/0177035 A1	8/10/2006	Cope et al.	
	114	2006/0209768 A1	9/21/2006	Yan et al.	
	115	2006/0258328 A1	11/16/2006	Mario Francisco Godoy	

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Unassigned
SHEET 5 OF 7	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	116	2006/0264200 A1	11/23/2006	Laiho et al.	
	117	2007/0036143 A1	2/15/2007	Alt et al.	
	118	2007/0112964 A1	5/17/2007	Guedalia et al.	
	119	2007/0127676 A1	6/7/2007	Khadri	
	120	2007/0253418 A1	11/1/2007	Shiri et al.	
	121	2008/0037715 A1	2/14/2008	Prozeniuk et al.	
	122	2008/0056235 A1	3/6/2008	Albina et al.	
	123	2008/0063153 A1	3/13/2008	Krivorot et al.	
	124	2009/0028146 A1	1/29/2009	Kleyman et al.	
	125	8,422,507 B2	4/16/2013	Björsell et al.	
	126	8,537,805 B2	9/17/2013	Björsell et al.	
	127	8,542,815 B2	9/24/2013	Perreault et al.	
	128	2008/0056302 A1	3/6/2008	Erdal et al.	
	129	2009/0135735 A1	5/28/2009	Zhang et al.	
	130	2009/0141883 A1	6/4/2009	Bastien, Stephane	
	131	2009/0292539 A1	11/26/2009	Jaroker, Jon	
	132	2009/0325558 A1	12/31/2009	Pridmore et al.	
	133	2010/0086119 A1	4/8/2010	De Luca et al.	
	134	2010/0128729 A1	5/27/2010	Yazaki et al.	
	135	2012/0099599 A1	4/26/2012	Keränen et al.	
	136	2012/0227101 A1	9/6/2012	Yuan, Wei	
	137	2013/0114589 A1	5/9/2013	Fangman et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	138	CA 2,249,668	4/7/1999	Bruno et al.		
	139	EP 1 389 862 A1	2/18/2004	Shen et al.		
	140	EP 1 389 862 B1	11/3/2004	Shen et al.		

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.*	

T[1] - Place a check mark in this area when an English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Unassigned
SHEET 6 OF 7	Attorney Docket No.	SMARB19.004C1

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	141	WO 01/89145 A2	11/22/2001	Foti, Georges		
	142	WO 2007/044454 A2	4/19/2007	Croy et al.		
	143	WO 2008/052340 A1	5/8/2008	Perreault et al.		
	144	WO 2008/064481 A1	6/5/2008	Björsell et al.		
	145	WO 2008/116296 A1	10/2/2008	Björsell et al.		
	146	WO 2010/012090 A2	2/4/2010	Björsell et al.		
	147	WO 2011/032256 A1	3/24/2011	Huttunen, Pentti Kalevi		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	148	F. Baker et al. "RFC 3924 - Cisco Architecture for Lawful Intercept in IP Networks." October 2004.	
	149	Cisco. "Lawful Intercept Requirements Summary." http://www.faqs.org/rfcs/rfc3924.html. November 8, 2006.	
	150	Sippy SIP B2BUA. "About Sippy RTPproxy." http://www.rtpproxy.org. July 15, 2009.	
	151	ETSI Technical Specification. "Lawful Interception (LI); Handover Interface and Service-Specific Details (SSD) for IP delivery; Part 5: Service-specific details for IP Multimedia Services." Apr 2008, 25 pgs, v.2.3.1, France.	
	152	M. Handley et al. "RFC 2543 - SIP: Session Initiation Protocol." March 1999.	
	153	A copy of the International Search Report and Written Opinion of the International Searching Authority completed June 6, 2008 for related PCT/CA2008/000545.	
	154	A copy of the International Search Report and Written Opinion of the International Searching Authority completed February 6, 2008 for corresponding PCT/CA2007/001956.	
	155	A copy of the International Preliminary Report on Patentability mailed May 14, 2009 for corresponding PCT/CA2007/001956.	
	156	A copy of the International Search Report and Written Opinion of the International Searching Authority completed March 3, 2008 for related PCT/CA2007/002150.	
	157	A copy of the International Preliminary Report on Patentability mailed February 13, 2009 for related PCT/CA2007/002150.	
	158	A copy of the International Preliminary Report on Patentability and Written Opinion of the International Searching Authority mailed February 10, 2011 for related PCT Application No. PCT/CA2009/001062, February 01, 2011.	

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Unassigned
SHEET 7 OF 7	Attorney Docket No.	SMARB19.004C1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	159	A copy of the Written Opinion and International Search Report completed on June 18, 2010 for related PCT Application No. PCT/CA2009/001317.	
	160	A copy of the International Search Report and Written Opinion mailed on March 12, 2010 for corresponding PCT Application No. PCT/CA2009/001062.	
	161	A copy of the International Preliminary Report on Patentability issued on September 29, 2009 for PCT/CA2008/000545.	
	162	A copy of the International Preliminary Report on Patentability issued on March 20, 2012 for PCT/CA2009/001317.	
	163	Townsley, et al.; "RFC 2661 - Layer Two Tunneling Protocol 'L2TP' ", August 1999.	
	164	IP2Location, http://www.ip2location.com/; printed June 20, 2012.	
	165	DOTS IP Address Validation, "Overview", http://www.serviceobjects.com/products/dots_ipgeo.asp; printed June 21, 2012.	
	166	List of North American Numbering Plan area codes, http://en.wikipedia.org/wiki/List_of_NANP_area_codes; printed June 20, 2012.	
	167	DOTS Phone Exchange, "Overview", http://www.serviceobjects.com/demos/PhoneExchangeDemo.asp (URL no longer valid, current URL is http://www.serviceobjects.com/products/phone/phone-exchange); printed June 21, 2012.	
	168	Rosenberg, et al.; "RFC 3261 - SIP: Session Initiation Protocol", June 2002.	
	169	Lind AT&T S: "ENUM Call Flows for VoIP Interworking; draft-lind-enum-callflows-03.txt", 20020201, no. 3, 1 February 2002, pages 1-17, XP015004214, ISSN: 0000-0004.	
	170	IETF ENUM WG R STASTNY OEFEG INFORMATIONAL NUMBERING FOR VOIP AND OTHER IP COMMUNICATIONS: "Numbering for ViOP and other IP Communications, draft-stastny-enum-numbering-voip-00.txt", 20031001, 1 October 2003, pages 1-43, XP015035676, ISSN: 0000-0004.	
	171	Supplementary European Search Report for European Application No. 07816106, dated June 18, 2012.	
	172	Supplementary European Search Report for European Application No. 07816106, dated November 2, 2012.	
	173	Wikipedia, "International mobile subscriber identity (IMSI)," http://en.wikipedia.org/wiki/IMSI, 7-16-2013.	
	174	Wikipedia, "Roaming," http://en.wikipedia.org/wiki/Roaming, 7-16-2013.	

16911904
122013

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

Electronic Acknowledgement Receipt

EFS ID:	17741607
Application Number:	14035806
International Application Number:	
Confirmation Number:	5562
Title of Invention:	MOBILE GATEWAY
First Named Inventor/Applicant Name:	Johan Emil Viktor Björsell
Customer Number:	20995
Filer:	John M Carson/Norman Green
Filer Authorized By:	John M Carson
Attorney Docket Number:	SMARB19.004C1
Receipt Date:	23-DEC-2013
Filing Date:	24-SEP-2013
Time Stamp:	14:14:53
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		IDS_SMARB19_004C1_12_23_2013.pdf	505209 d8efdc04eb6dd912766dde91dd44e088681b4c01	yes	9

	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Transmittal Letter		1	2	
	Information Disclosure Statement (IDS) Form (SB08)		3	9	
Warnings:					
Information:					
2	Foreign Reference	Ref146_WO2010012090A2.pdf	7688587 93ceb3791ca6d43b46ee02fe8e924dffc32c92ae	no	99
Warnings:					
Information:					
3	Foreign Reference	Ref147_WO2011032256A1.pdf	3571304 85006dddfdab1512fd629791aa7a43ac970a577a	no	48
Warnings:					
Information:					
4	Non Patent Literature	Ref173_WIKI_IMSI.pdf	316123 e2bf56b6db834ff63a7e776c6a468b8e033d7bd2	no	4
Warnings:					
Information:					
5	Non Patent Literature	Ref174_WIKI_ROAMING.pdf	837516 b56a3eb9a59331bd90d887ce6cbce1ad35e743b4	no	8
Warnings:					
Information:					
		Total Files Size (in bytes):	12918739		

T-Mobile Exhibit 1002

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

INFORMATION DISCLOSURE STATEMENT

Inventor	:	Johan Emil Viktor Björsell, et al.
App. No.	:	14/035,806
Filed	:	September 24, 2013
For	:	MOBILE GATEWAY
Examiner	:	Unassigned
Art Unit	:	2413
Conf. No.	:	5562

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

References and Listing

Submitted herewith in the above-identified application is an Information Disclosure Statement listing references for consideration. References numbered 1-124, 138-145, and 148-172 are of record in U.S. patent application No. 13/056,277, filed January 27, 2011, which is relied upon for an earlier filing date under 35 USC 120. Accordingly, copies of references numbered 1-124, 138-145, and 148-172 are not submitted pursuant to 37 CFR 1.98(d).

Timing of Disclosure

This Information Disclosure Statement is being filed within three months of the filing date or date of national phase entry, with an RCE or before receipt of a First Office Action after an RCE and no fee is required.

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 12/23/13

By: _____

John M. Carson
Registration No. 34,303
Attorney of Record
Customer No. 20995
(858) 707-4000

IDS
16911970
122013

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/035,806	09/24/2013	Johan Emil Viktor Bjorsell	SMARB19.004C1

CONFIRMATION NO. 5562

20995
KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

PUBLICATION NOTICE



Title:MOBILE GATEWAY

Publication No.US-2014-0024367-A1
Publication Date:01/23/2014

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Office of Public Records. The Office of Public Records can be reached by telephone at (703) 308-9726 or (800) 972-6382, by facsimile at (703) 305-8759, by mail addressed to the United States Patent and Trademark Office, Office of Public Records, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently http://pair.uspto.gov/. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Managment, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

To: jayna.cartee@knobbe.com,efiling@knobbe.com,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 20995

Jan 24, 2014 05:19:10 AM

Dear PAIR Customer:

KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614
UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 20995 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

Disclaimer:
The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

Application	Document	Mailroom Date	Attorney Docket No.
14035806	NTC.PUB	01/23/2014	SMARB19.004C1

To view your correspondence online or update your email addresses, please visit us anytime at https://sportal.uspto.gov/secure/myportal/privatepair.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2472
(Multiple sheets used when necessary)	Examiner	Kizou, Hassan
SHEET 1 OF 1	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	5,719,926	2/17/1998	Hill, Vincent F.	
	2	5,722,067	2/24/1998	Fougnies et al.	
	3	5,915,093	6/22/1999	Berlin et al.	
	4	6,029,062	2/22/2000	Hanson, Daniel A.	
	5	6,249,573	6/19/2001	Hudson, Dan	
	6	7,454,200	11/18/2008	Cai et al.	
	7	8,630,234	1/14/2014	Björsell et al.	
	8	8,675,566	3/18/2014	Huttunen et al.	
	9	2005/0198499 A1	9/8/2005	Salapaka et al.	
	10	2010/0150138 A1	6/17/2010	Björsell et al.	
	11	2010/0150328 A1	6/17/2010	Perrault et al.	
	12	2010/0172345 A1	7/8/2010	Björsell et al.	
	13	2011/0122827 A1	5/26/2011	Björsell et al.	
	14	2012/0170574 A1	7/5/2012	Huttunen et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	15	EP 2 090 024 A0	8/19/2009	Björsell et al.		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	16	Extended European Search Report dated November 2, 2012 for European Application No. EP 07 855 436.7	
	17	Extended European Search Report dated December 20, 2013 for European Application No. EP 09 849 358.8.	

17502140
031714

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

Electronic Acknowledgement Receipt

EFS ID:	18528461
Application Number:	14035806
International Application Number:	
Confirmation Number:	5562
Title of Invention:	MOBILE GATEWAY
First Named Inventor/Applicant Name:	Johan Emil Viktor Björsell
Customer Number:	20995
Filer:	John M Carson/Norman Green
Filer Authorized By:	John M Carson
Attorney Docket Number:	SMARB19.004C1
Receipt Date:	19-MAR-2014
Filing Date:	24-SEP-2013
Time Stamp:	18:12:29
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		IDS_SMARB19_004C1_03_19_2014.pdf	98960 5cd389b9f268e16c78497fc27afb93dfb709664b	yes	2

	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Transmittal Letter		1	1	
	Information Disclosure Statement (IDS) Form (SB08)		2	2	
Warnings:					
Information:					
2	Foreign Reference	Ref15_EP2090024A0.pdf	8168641 c410226fbd6fd4a44f5f412ebbc2cdd7e96e97be	no	110
Warnings:					
Information:					
3	Non Patent Literature	Ref16_EP_EESR_EP07855436_7.pdf	681617 01098ae2cd6851494b2d3cecde5488d754557d40	no	8
Warnings:					
Information:					
4	Non Patent Literature	Ref17_EP_EESR_EP09849358_8.pdf	470227 f5f3f1c6e6abaa38858e902fdcd371a4916b5fff	no	5
Warnings:					
Information:					
		Total Files Size (in bytes):	9419445		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

T-Mobile Exhibit 1002

INFORMATION DISCLOSURE STATEMENT

Inventor	:	Johan Emil Viktor Björsell, et al.
App. No.	:	14/035,806
Filed	:	September 24, 2013
For	:	MOBILE GATEWAY
Examiner	:	Kizou, Hassan
Art Unit	:	2472
Conf. No.	:	5562

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

References and Listing

Submitted herewith in the above-identified application is an Information Disclosure Statement listing references for consideration. Copies of any listed foreign and non-patent literature references are being submitted.

Timing of Disclosure

This Information Disclosure Statement is being filed before the receipt of a First Office Action on the merits, and presumably no fee is required. If a First Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 CFR 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,
KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 3/19/14

By: _____
John M. Carson
Registration No. 34,303
Attorney of Record
Customer No. 20995
(858) 707-4000

IDS
17502264
031714

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2472
(Multiple sheets used when necessary)	Examiner	Kizou, Hassan
SHEET 1 OF 1	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	1	WO 2007/056158 A2	05-18-2007	Roamware, Inc.		
	2	WO 2008/027065 A1	03-06-2008	Syniverse Technologies, Inc.		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	3	Extended European Search Report dated April 16, 2014 for European Patent Application No. EP 09 802 316.1 which shares priority of U.S. Provisional Application No. 61/129,898, filed July 28, 2008 with captioned U.S. Continuation Application No. 14/035,806.	

17876459
042814

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

Electronic Acknowledgement Receipt

EFS ID:	18910699
Application Number:	14035806
International Application Number:	
Confirmation Number:	5562
Title of Invention:	MOBILE GATEWAY
First Named Inventor/Applicant Name:	Johan Emil Viktor Björsell
Customer Number:	20995
Filer:	John M Carson/Norman Green
Filer Authorized By:	John M Carson
Attorney Docket Number:	SMARB19.004C1
Receipt Date:	30-APR-2014
Filing Date:	24-SEP-2013
Time Stamp:	18:29:57
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		IDS_SMARB19_004C1_04_30_2014.pdf	82600 fecd6290845b104c492bfb811f6f01f57c48e668	yes	2

	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Transmittal Letter		1	1	
	Information Disclosure Statement (IDS) Form (SB08)		2	2	
Warnings:					
Information:					
2	Foreign Reference	REF1__WO2007056158A2.pdf	6843532 8950d1de610127108591cf89be266fa3413e824b	no	90
Warnings:					
Information:					
3	Foreign Reference	REF2__WO2008027065A1.pdf	4387615 70db7096cec475d9bfa1e11c34142e8153f28778	no	57
Warnings:					
Information:					
4	Non Patent Literature	REF3__EP_EESR_EP09802316_1.pdf	500450 c10eecf83d282b4c70eb4a7303a4c34dcaf5ccd1	no	6
Warnings:					
Information:					
		Total Files Size (in bytes):	11814197		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

<u>New Applications Under 35 U.S.C. 111</u>
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

<u>National Stage of an International Application under 35 U.S.C. 371</u>
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

<u>New International Application Filed with the USPTO as a Receiving Office</u>
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

INFORMATION DISCLOSURE STATEMENT

Inventor	:	Johan Emil Viktor Björsell, et al.
App. No.	:	14/035,806
Filed	:	September 24, 2013
For	:	MOBILE GATEWAY
Examiner	:	Kizou, Hassan
Art Unit	:	2472
Conf. No.	:	5562

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

References and Listing

Submitted herewith in the above-identified application is an Information Disclosure Statement listing references for consideration. Copies of any listed foreign and non-patent literature references are being submitted.

Timing of Disclosure

This Information Disclosure Statement is being filed before the receipt of a First Office Action on the merits, and presumably no fee is required. If a First Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 CFR 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,
KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 4/30/14

By: _____
John M. Carson
Registration No. 34,303
Attorney of Record
Customer No. 20995
(858) 707-4000

IDS
17876629
042814

T-Mobile Exhibit 1002

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82B (07-13)
Approved for use through 11/30/2014. OMB 0651-0051
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

☒ I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above: 20995

OR

☐ I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:

☒ The address associated with the above-mentioned Customer Number

OR

☐ The address associated with Customer Number:

OR

Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

Digifonica (International) Limited

☐ Inventor or Joint Inventor (title not required below)

☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)

☒ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)

☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature		Date (Optional)	Dec 12, 2013
Name			
Title			

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

☐ Total of forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

T-Mobile Exhibit 1002

PTO/AIA/01 (06-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	MOBILE GATEWAY

As the below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ The attached application, or
- ■ United States application or PCT international application number 14/035,806 filed on September 24, 2013.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

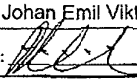
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: Johan Emil Viktor Björsell Date (Optional): 17 Feb 2014

Signature: 

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

T-Mobile Exhibit 1002

PTO/AIA/01 (06-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	MOBILE GATEWAY

As the below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ The attached application, or
- ■ United States application or PCT international application number 14/035,806 filed on September 24, 2013.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: Maksym Sobolyev Date (Optional): 17 Feb 2014

Signature: [signature]

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

T-Mobile Exhibit 1002

PTO/AIA/01 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	MOBILE GATEWAY

As the below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 14/035,806 filed on September 24, 2013.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: Pentti Kalevi Huttunen Date (Optional): Feb 18, 2014

Signature: [signature]

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

T-Mobile Exhibit 1002

Electronic Acknowledgement Receipt

EFS ID:	19933141
Application Number:	14035806
International Application Number:	
Confirmation Number:	5562
Title of Invention:	MOBILE GATEWAY
First Named Inventor/Applicant Name:	Johan Emil Viktor Björsell
Customer Number:	20995
Filer:	John M Carson/Melanie Neat
Filer Authorized By:	John M Carson
Attorney Docket Number:	SMARB19.004C1
Receipt Date:	21-AUG-2014
Filing Date:	24-SEP-2013
Time Stamp:	19:23:27
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		SMARB19004C1_POADEC.pdf	350549 f1298987d7645fbe51f8821d75285e3a1a2fba2e	yes	6

T-Mobile Exhibit 1002

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Transmittal Letter	1	1
	Transmittal Letter	2	2
	Power of Attorney	3	3
	Oath or Declaration filed	4	4
	Oath or Declaration filed	5	5
	Oath or Declaration filed	6	6
Warnings:			
Information:			
	Total Files Size (in bytes):	350549	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Please Direct All Correspondence to Customer Number 20995

RESPONSE TO INFORMATIONAL NOTICE

Inventor	:	Johan Emil Viktor Björsell et al.
App. No.	:	14/035,806
Filed	:	September 24, 2013
For	:	MOBILE GATEWAY
Art Unit	:	2413
Conf. No.	:	5562

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

The above-captioned application was filed without a Declaration and/or Substitute Statement. Enclosed in compliance with 37 CFR 1.53(f) are the following:

(X) Declaration(s) for:

Johan Emil Viktor Björsell, Maksym Sobolyev and **Pentti Kalevi Huttunen**

(X) Power of Attorney by Applicant.

The Commissioner is hereby authorized to charge any additional fees which may be required, now or in the future, or credit any overpayment, to Account No. 11-1410.

Date: 8/21/14

John M. Carson
Registration No. 34,303
Attorney of Record
Customer No. 20995
(858) 707-4000

17806765:djl
041614

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82A (07-13)
Approved for use through 11/30/2014. OMB 0651-0051
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	14/035806
Filing Date	September 24, 2013
First Named Inventor	Johan Emil Viktor Björsell
Title	MOBILE GATEWAY
Art Unit	2413
Examiner Name	Rahman, M. Mostazir
Attorney Docket Number	SMARB19.004C1

SIGNATURE of Applicant or Patent Practitioner

Signature		Date (Optional)	
Name	JOHN M. CARSON	Registration Number	34303
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.

☑ *Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

T-Mobile Exhibit 1002

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/035,806	09/24/2013	Johan Emil Viktor Björsell	SMARB19.004C1

CONFIRMATION NO. 5562

IMPROPER CFR REQUEST

20995
KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

OC000000070408869

Date Mailed: 08/29/2014

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

Power of Attorney, Claims, Fees, System Limitations, and Miscellaneous

In response to your request for a corrected Filing Receipt, the Office is unable to comply with your request because:

- Any request to correct or update the name of the applicant must include an application data sheet (ADS) in compliance with 37 CFR 1.76 specifying the correct or updated name of the applicant in the applicant information section. Any request to change the applicant after an original applicant has been specified under 37 CFR 1.46(b) must include a new ADS in compliance with 37 CFR 1.76 specifying the applicant in the applicant information section and comply with 37 CFR 3.71 and 3.73. See 37 CFR 1.46(c).

/fstephanos/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/035,806	09/24/2013	Johan Emil Viktor Björsell	SMARB19.004C1

CONFIRMATION NO. 5562

IMPROPER CPOA LETTER

20995
KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

OC000000070408833

Date Mailed: 08/29/2014

NOTICE REGARDING POWER OF ATTORNEY

This is in response to the power of attorney filed 08/21/2014. The power of attorney in this application is not accepted for the reason(s) listed below:

- The power of attorney has not been accepted because the party who is giving power has not been identified. Power of attorney may only be signed by the applicant for patent (37 CFR 1.42) or the patent owner. A party who is not the applicant must become the applicant in accordance with 37 CFR 1.46(c) and appoint any power of attorney in compliance with 37 CFR 3.71 and 3.73. For a reissue application, reexamination proceeding, or supplemental examination proceeding, a patent owner who was not the applicant under 37 CFR 1.46 must appoint any power of attorney in compliance with 37 CFR 3.71 and 3.73. See 37 CFR 1.32(b)(4).

/fstephanos/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

To: jayna.cartee@knobbe.com,efiling@knobbe.com,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 20995

Aug 29, 2014 05:21:14 AM

Dear PAIR Customer:

KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614
UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 20995 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

Disclaimer:
The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

Application	Document	Mailroom Date	Attorney Docket No.
14035806	M327	08/29/2014	SMARB19.004C1
	N572	08/29/2014	SMARB19.004C1

To view your correspondence online or update your email addresses, please visit us anytime at https://sportal.uspto.gov/secure/myportal/privatepair.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 1 OF 11	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	5,325,421	06-28-1994	Hou et al.	
	2	6,553,025 B1	04-22-2003	Kung et al.	
	3	6,560,224 B1	05-06-2003	Kung et al.	
	4	6,650,641 B1	11-18-2003	Albert et al.	
	5	6,775,534 B2	08-10-2004	Lindgren et al.	
	6	6,934,279 B1	08-23-2005	Sollee et al.	
	7	6,963,739 B2	11-08-2005	Dorenbosch et al.	
	8	6,985,440 B1	01-10-2006	Albert et al.	
	9	6,993,015 B2	01-31-2006	Kobayashi, Toshihiko	
	10	7,006,508 B2	02-28-2006	Bondy et al.	
	11	7,027,564 B2	04-11-2006	James, Anthony W.	
	12	7,068,668 B2	06-27-2006	Feuer, Donald S.	
	13	7,151,772 B1	12-19-2006	Kalmanek, Jr. et al.	
	14	7,177,399 B2	02-13-2007	Dawson et al.	
	15	7,277,528 B2	10-02-2007	Rao et al.	
	16	7,400,881 B2	07-15-2008	Kallio, Juha	
	17	7,436,835 B2	10-14-2008	Castleberry et al.	
	18	7,440,442 B2	10-21-2008	Grabelsky et al.	
	19	7,486,667 B2	02-03-2009	Feuer, Donald S.	
	20	7,567,131 B2	07-21-2009	Rollender et al.	
	21	7,573,982 B2	08-11-2009	Breen et al.	
	22	7,593,390 B2	09-22-2009	Lebizay, Gerald	
	23	7,639,792 B2	12-29-2009	Qiu et al.	
	24	7,657,011 B1	02-02-2010	Zielinski et al.	
	25	7,664,495 B1	02-16-2010	Bonner et al.	
	26	7,676,215 B2	03-09-2010	Chin et al.	
	27	7,680,114 B2	03-16-2010	Yazaki et al.	
	28	7,702,308 B2	04-20-2010	Rollender, Douglas Harold	

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 2 OF 11	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	29	7,715,821 B2	05-11-2010	Rollender, Douglas Harold	
	30	7,738,384 B2	06-15-2010	Pelletier, Jeffrey P.	
	31	7,764,944 B2	07-27-2010	Rollender, Douglas Harold	
	32	7,797,459 B1	09-14-2010	Roy et al.	
	33	7,894,441 B2	02-22-2011	Yazaki et al.	
	34	7,907,551 B2	03-15-2011	Croy et al.	
	35	7,929,955 B1	04-19-2011	Bonner, Thomas W.	
	36	7,944,909 B2	05-17-2011	James, Anthony W.	
	37	7,965,645 B2	06-21-2011	Pelletier, Jeffrey P.	
	38	7,979,529 B2	07-12-2011	Kreusch et al.	
	39	7,995,589 B2	08-09-2011	Sollee et al.	
	40	8,024,785 B2	09-20-2011	Andress et al.	
	41	8,027,333 B2	09-27-2011	Grabelsky et al.	
	42	8,041,022 B1	10-18-2011	Andreasen et al.	
	43	8,050,273 B2	11-01-2011	Gass, Raymond	
	44	8,125,982 B2	02-28-2012	Feuer, Donald S.	
	45	8,145,182 B2	03-27-2012	Rudolf et al.	
	46	8,166,533 B2	04-24-2012	Yuan, Wei	
	47	8,189,568 B2	05-29-2012	Qiu et al.	
	48	8,204,044 B2	06-19-2012	Lebizay, Gerald	
	49	8,228,897 B2	07-24-2012	Mitchell, Don	
	50	8,244,204 B1	08-14-2012	Chen et al.	
	51	8,306,063 B2	11-06-2012	Erdal et al.	
	52	8,363,647 B2	01-29-2013	Fangman et al.	
	53	8,427,981 B2	04-23-2013	Wyss et al.	
	54	8,437,340 B2	05-07-2013	James, Anthony W.	
	55	8,462,915 B2	06-11-2013	Breen et al.	
	56	8,509,225 B2	08-13-2013	Grabelsky et al.	
	57	8,605,714 B2	12-10-2013	Lebizay, Gerald	

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 3 OF 11	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	58	8,605,869 B1	12-10-2013	Mobarak et al.	
	59	8,607,323 B2	12-10-2013	Yuan, Wei	
	60	8,611,354 B2	12-17-2013	Keränen et al.	
	61	8,625,578 B2	01-07-2014	Roy et al.	
	62	8,724,643 B2	05-13-2014	Feuer, Donald S.	
	63	8,750,290 B2	06-10-2014	Vance et al.	
	64	8,763,081 B2	06-24-2014	Bogdanovic et al.	
	65	8,768,951 B2	07-01-2014	Crago, William Barry	
	66	8,774,171 B2	07-08-2014	Mitchell, Don	
	67	8,804,705 B2	08-12-2014	Voxpath Networks, Inc.	
	68	2001/0052081 A1	12-13-2001	McKibben et al.	
	69	2002/0002041 A1	01-03-2002	Lindgren et al.	
	70	2002/0018445 A1	02-14-2002	Kobayashi, Toshihiko	
	71	2002/0141352 A1	10-03-2002	Fangman et al.	
	72	2003/0012196 A1	01-16-2003	Ramakrishnan, Kadangode K.	
	73	2003/0095539 A1	05-22-2003	Feuer, Donald S.	
	74	2003/0179747 A1	09-25-2003	Pyke et al.	
	75	2003/0219103 A1	11-27-2003	Rao et al.	
	76	2004/0034793 A1	02-19-2004	Yuan, Wei	
	77	2004/0203582 A1	10-14-2004	Dorenbosch et al.	
	78	2004/0203565 A1	10-14-2004	Chin et al.	
	79	2005/0063519 A1	03-24-2005	James, Anthony W.	
	80	2005/0188081 A1	08-25-2005	Gibson et al.	
	81	2005/0190892 A1	09-01-2005	Dawson et al.	
	82	2005/0202799 A1	09-15-2005	Rollender, Douglas Harold	
	83	2005/0287979 A1	12-29-2005	Rollender, Douglas Harold	
	84	2006/0007940 A1	01-12-2006	Sollee et al.	
	85	2006/0013266 A1	01-19-2006	Vega-Garcia et al.	
	86	2006/0030290 A1	02-09-2006	Rudolf et al.	

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 4 OF 11	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	87	2006/0078094 A1	04-13-2006	Breen et al.	
	88	2006/0142011 A1	06-29-2006	Kallio, Juha	
	89	2006/0146797 A1	07-06-2006	Lebizay, Gerald	
	90	2006/0189303 A1	08-24-2006	Rollender, Douglas Harold	
	91	2006/0205383 A1	09-14-2006	Rollender et al.	
	92	2006/0248186 A1	11-02-2006	Smith, Richard James	
	93	2006/0251056 A1	11-09-2006	Feuer, Donald S.	
	94	2006/0268921 A1	11-30-2006	Ekstrom et al.	
	95	2006/0281437 A1	12-14-2006	Cook, Charles I.	
	96	2007/0047548 A1	03-01-2007	Yazaki et al.	
	97	2007/0092070 A1	04-26-2007	Croy et al.	
	98	2007/0115935 A1	05-24-2007	Qiu et al.	
	99	2007/0121593 A1	05-31-2007	Vance et al.	
	100	2007/0174469 A1	07-26-2007	Andress et al.	
	101	2007/0220038 A1	09-20-2007	Crago, William Barry	
	102	2007/0253429 A1	11-01-2007	James, Anthony W.	
	103	2007/0263609 A1	11-15-2007	Mitchell, Don	
	104	2007/0297376 A1	12-27-2007	Gass, Raymond	
	105	2008/0013523 A1	01-17-2008	Nambakkam, Sampath	
	106	2008/0056243 A1	03-06-2008	Roy et al.	
	107	2008/0167039 A1	07-10-2008	Guedalia et al.	
	108	2008/0167020 A1	07-10-2008	Guedalia et al.	
	109	2008/0167019 A1	07-10-2008	Guedalia et al.	
	110	2008/0166999 A1	07-10-2008	Guedalia et al.	
	111	2008/0188227 A1	08-07-2008	Guedalia et al.	
	112	2008/0188198 A1	08-07-2008	Patel et al.	
	113	2008/0187122 A1	08-07-2008	Baker, Colin Lawrence Melvin	
	114	2008/0205378 A1	08-28-2008	Wyss et al.	
	115	2008/0310599 A1	12-18-2008	Purnadi et al.	

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 5 OF 11	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	116	2009/0003535 A1	01-01-2009	Grabelsky et al.	
	117	2009/0129566 A1	05-21-2009	Feuer, Donald S.	
	118	2009/0135724 A1	05-28-2009	Zhang et al.	
	119	2009/0214000 A1	08-27-2009	Patel et al.	
	120	2009/0268615 A1	10-29-2009	Pelletier, Jeffrey P.	
	121	2009/0296900 A1	12-03-2009	Breen et al.	
	122	2010/0008345 A1	01-14-2010	Lebizay, Gerald	
	123	2010/0039946 A1	02-18-2010	Imbimbo et al.	
	124	2010/0105379 A1	04-29-2010	Bonner et al.	
	125	2010/0177671 A1	07-15-2010	Qiu et al.	
	126	2010/0246589 A1	09-30-2010	Pelletier, Jeffrey P.	
	127	2010/0272242 A1	10-28-2010	Croy et al.	
	128	2011/0013541 A1	01-20-2011	Croy et al.	
	129	2011/0153809 A1	06-23-2011	Ghanem et al.	
	130	2011/0176541 A1	07-21-2011	James, Anthony W.	
	131	2011/0201321 A1	08-18-2011	Bonner, Thomas W.	
	132	2011/0267986 A1	11-03-2011	Grabelsky et al.	
	133	2012/0014383 A1	01-19-2012	Geromel et al.	
	134	2012/0113981 A1	05-10-2012	Feuer, Donald S.	
	135	2012/0195415 A1	08-02-2012	Wyss et al.	
	136	2012/0250624 A1	10-04-2012	Lebizay, Gerald	
	137	2012/0282881 A1	11-08-2012	Mitchell, Don	
	138	2012/0314699 A1	12-13-2012	Qiu et al.	
	139	2013/0272297 A1	10-17-2013	AT&T Intellectual Property I, L.P.	
	140	2014/0101749 A1	04-10-2014	Rockstar Consortium US LP	
	141	2014/0211789 A1	07-31-2014	Centre One	

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 6 OF 11	Attorney Docket No.	SMARB19.004C1

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	142	CA 2 218 218 A1	10-14-1997	AT&T Corp.		
	143	CA 2 299 037 A1	08-22-2000	Selex Communications, LLC		Abstract
	144	CA 2 437 275 A1	10-17-2002	Nortel Networks Limited		Abstract
	145	CA 2 690 236 A1	12-18-2008	Research In Motion Ltd		Abstract
	146	CN 1498029 A	05-19-2004	Lucent Technologies Inc		Abstract
	147	CN 1498482 A	05-19-2004	Siemens AG		Abstract
	148	CN 1668137 A	09-14-2005	Lucent Technologies Inc		Abstract
	149	CN 1274114 C	09-06-2006	Siemens AG		Abstract
	150	CN 101005503 A	07-25-2007	IBM		Abstract
	151	CN 101069390 A	11-07-2007	Nokia Corp		Abstract
	152	CN 101095329 A	12-26-2007	Intel Corp		Abstract
	153	CN 1498029 B	05-12-2010	Lucent Technologies Inc		Abstract
	154	CN 101772929 A	07-07-2010	Research In Motion Ltd		Abstract
	155	CN 101069390 B	12-22-2010	Nokia Corp		Abstract
	156	CN 102484656 A	05-30-2012	Telefonaktiebolaget LM Ericsson		Abstract
	157	CN 101095329 B	10-10-2012	Intel Corp		Abstract
	158	CN 102833232 A	12-19-2012	Intel Corp		Abstract
	159	CN 101005503 B	01-16-2013	IBM		Abstract
	160	CN 101772929 B	07-02-2014	Research In Motion Ltd		Abstract
	161	DE 602 01 827 T2	11-10-2005	Alcatel SA		Abstract
	162	DE 11 2005 003 306 T5	01-24-2008	Intel Corp	*Corresponding Abstract: International Publication No. WO 2006/072099 A1 published 07-06-2006; is supplied with this document*	Abstract
	163	DE 601 33 316 T2	07-10-2008	Nortel Networks Ltd.		Abstract
	164	DE 603 17 751 T2	11-06-2008	Lucent Technologies Inc		Abstract
	165	EP 0 841 832 A2	05-13-1998	AT&T Corp.		
	166	EP 0 841 832 A3	05-19-1999	AT&T Corp.		

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.*	

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 7 OF 11	Attorney Docket No.	SMARB19.004C1

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	167	EP 1 032 224 A2	08-30-2000	Selex Communications, LLC		
	168	EP 1 032 224 A3	08-30-2000	Selex Communications, LLC		
	169	EP 1 244 250 A1	09-25-2002	Siemens AG		Abstract
	170	EP 1 266 516 A2	12-18-2002	Nortel Networks Ltd	*Published by WIPO under: International Publication No. WO 01/069899 A2 published 12-18-2002; Abstract of which is supplied with this document*	Abstract
	171	EP 1 362 456 A2	11-19-2003	Nortel Networks Ltd	*Published by WIPO under: International Publication No. WO 02/082782 A2 published 10-17-2002; Abstract of which is supplied with this document*	Abstract
	172	EP 1 371 173 A1	12-17-2003	Siemens AG	*Published by WIPO under: International Publication No. WO 02/082728 A1 published 10-17-2002; Abstract of which is supplied with this document*	Abstract
	173	EP 1 411 743 A1	04-21-2004	Lucent Technologies Inc.		
	174	EP 1 526 697 A2	04-27-2005	3COM Corporation		
	175	EP 1 362 456 A4	05-25-2005	Nortel Networks Ltd		Abstract
	176	EP 1 575 327 A1	09-14-2005	Lucent Technologies Inc.		
	177	EP 1 610 583 A1	12-28-2005	Lucent Technologies Inc.		
	178	EP 1 526 697 A3	03-22-2006	3COM Corporation		
	179	EP 1 721 446 A1	11-15-2006	Nortel Networks Ltd	*Published by WIPO under: International Publication No. WO 2005/084002 A1 published 10-09-2005; Abstract of which is supplied with this document*	Abstract

Examiner Signature	Date Considered

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 8 OF 11	Attorney Docket No.	SMARB19.004C1

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	180	EP 1 829 300 A1	09-05-2007	Nokia Corp	Published by WIPO under: International Publication No. WO 2006/067269 A1 published 06-29-2006; Abstract of which is supplied with this document	Abstract
	181	EP 1 371 173 B1	11-28-2007	Siemens AG		Abstract
	182	EP 1 411 743 B1	11-28-2007	Lucent Technologies Inc.		
	183	EP 1 362 456 B1	03-19-2008	Nortel Networks Ltd		
	184	EP 1 974 304 A2	10-01-2008	Medical Envelope LLC	*Published by WIPO under: International Publication No. WO 2007/087077 A2 published 08-02-2007; Abstract of which is supplied with this document*	Abstract
	185	EP 1 974 304 A4	10-01-2008	Medical Envelope LLC		Abstract
	186	EP 1 610 583 B1	08-26-2009	Lucent Technologies Inc.		
	187	EP 2 127 232 A1	12-02-2009	Interactive Intelligence Inc	*Published by WIPO under: International Publication No. WO 2008/103652 A1 published 08-28-2008; Abstract of which is supplied with this document*	Abstract
	188	EP 2 165 489 A1	03-24-2010	Research In Motion Ltd	*Published by WIPO under: International Publication No. WO 2008/103652 A1 published 08-28-2008; Abstract of which is supplied with this document*	Abstract
	189	EP 2 215 755 A1	08-11-2010	Broadsoft Inc	*Published by WIPO under: International Publication No. WO 2009/070278 A1 published 06-04-2009; Abstract of which is supplied with this document*	Abstract
	190	EP 2 165 489 A4	03-02-2011	Research In Motion Ltd		Abstract
	191	EP 2 127 232 A4	03-16-2011	Interactive Intelligence Inc		Abstract

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.*	

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 9 OF 11	Attorney Docket No.	SMARB19.004C1

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	192	EP 1 829 300 A4	05-02-2012	Nokia Corp	Corresponding Abstract: International Publication No. WO 2006/067269 A1 published 06-29-2006; is supplied with this document	Abstract
	193	EP 2 449 749 A1	05-09-2012	Telefonaktiebolaget LM Ericsson	*Published by WIPO under: International Publication No. WO 2011/000405 A1 published 01-06-2011; Abstract of which is supplied with this document*	Abstract
	194	EP 2 215 755 A4	10-24-2012	Broadsoft Inc		Abstract
	195	EP 1 829 300 B1	11-21-2012	Nokia Corp	*Corresponding Abstract: International Publication No. WO 2006/067269 A1 published 06-29-2006; is supplied with this document*	Abstract
	196	EP 2 449 749 B1	03-12-2014	Telefonaktiebolaget LM Ericsson		
	197	EP 1 266 516 B1	05-07-2014	Genband US LLC		
	198	WO 01/69899 A2	09-20-2001	Nortel Networks Ltd.		
	199	WO 01/69899 A3	09-20-2001	Nortel Networks Ltd.		
	200	WO 01/80587 A1	10-25-2001	Telefonaktiebolaget LM Ericsson		
	201	WO 02/082728 A1	10-17-2002	Siemens AG		Abstract
	202	WO 02/082782 A2	10-17-2002	Nortel Networks Limited		
	203	WO 02/082782 A3	10-17-2002	Nortel Networks Limited		
	204	WO 2005/084002 A1	09-09-2005	Nortel Networks Limited		
	205	WO 2006/067269 A1	06-29-2006	Nokia Corporation		
	206	WO 2006/072099 A1	07-06-2006	Intel Corporation		
	207	WO 2006/078175 A2	07-27-2006	Baker, Colin et al.		
	208	WO 2006/078175 A3	07-27-2006	Baker, Colin et al.		
	209	WO 2007/044454 A2	04-19-2007	Telecommunication Systems, Inc.		
	210	WO 2007/087077 A2	08-02-2007	Medical Envelope LLC		

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.*	

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 10 OF 11	Attorney Docket No.	SMARB19.004C1

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	211	WO 2007/087077 A3	08-02-2007	Medical Envelope LLC		
	212	WO 2008/085614 A2	07-17-2008	ISKOOT, Inc.		
	213	WO 2008/085614 A3	07-17-2008	ISKOOT, Inc.		
	214	WO 2008/086350 A2	07-17-2008	ISKOOT, Inc.		
	215	WO 2008/086350 A3	07-17-2008	ISKOOT, Inc.		
	216	WO 2008/103652 A1	08-28-2008	Interactive Intelligence, Inc.		
	217	WO 2008/085614 A8	12-11-2008	ISKOOT, Inc.		
	218	WO 2008/151406 A1	12-18-2008	Research In Motion Ltd		
	219	WO 2008/151406 A8	12-18-2008	Research In Motion Ltd		
	220	WO 2009/070202 A1	06-04-2009	Tellabs Operations, Inc.		
	221	WO 2009/070278 A1	06-04-2009	Broadsoft, Inc.		
	222	WO 2011/000405 A1	01-06-2011	Telefonaktiebolaget LM Ericsson		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	223	Baker *et al.*, "Cisco Support for Lawful Intercept In IP Networks," Internet Draft - working document of the Internet Engineering Task Force (IETF), accessible at http://www.ietf.org/ietf/lid-abstracts.txt, April 2003, expires September 30, 2003, pages 1-15.	
	224	Bhushan *et al.*, "Federated Accounting: Service Charging and Billing in a Business-to-Business Environment," 0-7803-6719-7/01, © 2001 IEEE, pages 107-121.	
	225	Jajszczyk *et al.*, "Emergency Calls in Flow-Aware Networks," *IEEE Communications Letters*, Vol. 11, No. 9, September 2007, pages 753-755.	
	226	Kim *et al.*, "An Enhanced VoIP Emergency Services Prototype," *Proceedings of the 3rd International ISCRAM Conference (B. Van de Walle and M. Turoff, eds.), Newark, NJ (USA)*, May 2006, pages 1-8.	
	227	Kornfeld *et al.*, "DVB-H and IP Datacast—Broadcast to Handheld Devices," *IEEE Transactions On Broadcasting*, Vol. 53, No. 1, March 2007, pages 161-170.	
	228	Kortebi *et al.*, "SINR-Based Routing in Multi-Hop Wireless Networks to Improve VoIP Applications Support," 1-4244-0667-6/07, © 2007 IEEE, pages 491-496.	
	229	Lee *et al.*, "VoIP Interoperation with KT-NGN," in *The 6th International Conference on Advanced Communication Technology*, Technical Proceedings, 2004, pages 126-128, accompanied by Title and Contents - 4 pages.	

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 11 OF 11	Attorney Docket No.	SMARB19.004C1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	230	Lin *et al.*, "Effective VoIP Call Routing in WLAN and Cellular Integration," *IEEE Communications Letters*, Vol. 9, No. 10, October 2005, pages 874-876.	
	231	Ma *et al.*, "Realizing MPEG4 Video Transmission Based on Mobile Station over GPRS," *0-7803-9335-X/05,* © 2005 IEEE, pages 1241-1244.	
	232	Mintz-Habib *et al.*, "A VoIP Emergency Services Architecture and Prototype," *{mm2571,asr,hgs,xiaotaow}@cs.columbia.edu, 0-7803-9428-3/05,* © 2005 IEEE, pages 523-528.	
	233	Munir, Muhammad Farukh, "Study of an Adaptive Scheme for Voice Transmission on IP in a Wireless Networking Environment 802.11e," *Dept. of Networks and Distributed Computing, Ecole Supérieure En Sciences Informatiques (ESSI), Université De Nice*, June 2005, (pages 1-35), BEST AVAILABLE COPY - pages 1-11.	
	234	Sripanidkulchai *et al.*, "Call Routing Management in Enterprise VoIP Networks," *Copyright 2007 ACM* 978-1-59593-788-9/07/0008, 6 pages.	
	235	Thernelius, Fredrik, "SIP, NAT, and Firewalls," Master's Thesis, *ERICSSON, Department of Teleinformatics*, May 2000, pages 1-69.	
	236	Trad *et al.*, "Adaptive VoIP Transmission over Heterogeneous Wired/Wireless Networks," *V. Roca and F. Rousscau (Eds.): MIPS 2004, LNCS 3311*, pp. 25-36, 2004, © Springer-Verlag Berlin Heidelberg 2004.	
	237	Yu et al., "Service-Oriented Issues: Mobility, Security, Charging and Billing Management in Mobile Next Generation Networks," *IEEE BcN2006, 1-4244-0146-1/06,* © 2006 IEEE, pages 1-10.	

19430900
120114

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

Electronic Acknowledgement Receipt

EFS ID:	20804280
Application Number:	14035806
International Application Number:	
Confirmation Number:	5562
Title of Invention:	MOBILE GATEWAY
First Named Inventor/Applicant Name:	Johan Emil Viktor Björsell
Customer Number:	20995
Filer:	John M Carson/Norman Green
Filer Authorized By:	John M Carson
Attorney Docket Number:	SMARB19.004C1
Receipt Date:	01-DEC-2014
Filing Date:	24-SEP-2013
Time Stamp:	18:01:58
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Foreign Reference	FRef1_CA2218218A1.pdf	1303485 8736889d78c5bf43bf8f57298ce30628fb0d007c	no	19

Warnings:	
Information:	

T-Mobile Exhibit 1002

2	Foreign Reference	FRef2_CA2299037A1.pdf	2459515 9204e3cdb1b58140db00988366a0f36fc16dd4a7	no	30
Warnings:					
Information:					
3	Foreign Reference	FRef3_CA2437275A1.pdf	3218137 659abad897a7d73180ff704a58b5907c2c23c72c	no	48
Warnings:					
Information:					
4	Foreign Reference	FRef4_CA2690236A1.pdf	2261223 c7229f41c59c93ce1862877d0fe339098e81ade0	no	28
Warnings:					
Information:					
5	Foreign Reference	FRef5_CN1498029A.pdf	1083455 d05ac1a88ebe6c0316a78a157cbcda428bc6b09a	no	13
Warnings:					
Information:					
6	Foreign Reference	FRef6_CN1498482A.pdf	1650102 ffa6dc51f75f3fa22a12712bbfbfeb6864f79396	no	18
Warnings:					
Information:					
7	Foreign Reference	FRef7_CN1668137A.pdf	1807688 cca62540137fe451056660dd218429fa05bfbb1a	no	21
Warnings:					
Information:					
8	Foreign Reference	FRef8_CN1274114C.pdf	1732150 f51ca2146d1c92841272b80a9d412fe7f6d8667b	no	19
Warnings:					
Information:					
9	Foreign Reference	FRef9_CN101005503A.pdf	2237498 f35007d260013445bfee706d2b6e9ee5d32eda85	no	26
Warnings:					
Information:					
10	Foreign Reference	FRef10_CN101069390A.pdf	2768939 8194859e193c669f747f67f33ba9386370dfbf4e	no	30
Warnings:					
Information:					

11	Foreign Reference	FRef11_CN101095329A.pdf	1902050 6c7ebb38c8723d53710267bf54bf44be6921e2d3	no	23
Warnings:					
Information:					
12	Foreign Reference	FRef12_CN1498029B.pdf	833982 a75f29202e36f404eb0634ff889ff4d38f41586f	no	9
Warnings:					
Information:					
13	Foreign Reference	FRef13_CN101772929A.pdf	1629030 08c526bd92a9cf2b1b50964b69b1a2134d1aadc0	no	17
Warnings:					
Information:					
14	Foreign Reference	FRef14_CN101069390B.pdf	2209004 f8f44c75aba5224c84d0b9adbd9fef15f35c544d	no	22
Warnings:					
Information:					
15	Foreign Reference	FRef15_CN102484656A.pdf	1705748 f307d672b2d5a27e6a0b525f6e994823c8651fea	no	19
Warnings:					
Information:					
16	Foreign Reference	FRef16_CN101095329B.pdf	1361015 51e0d6311708aa7d42f82d3d60b6446a3a811661	no	15
Warnings:					
Information:					
17	Foreign Reference	FRef17_CN102833232A.pdf	1652929 77419d14a25a03114612d4a255d723e7966cd4c4	no	17
Warnings:					
Information:					
18	Foreign Reference	FRef18_CN101005503B.pdf	1847539 aac46ec05928d6c74fc32767f9ef3699681e4479	no	20
Warnings:					
Information:					
19	Foreign Reference	FRef19_CN101772929B.pdf	1551207 80c03d8efc95bfb8b627efd3e192342a2efd8d77	no	16
Warnings:					
Information:					

20	Foreign Reference	FRef20_DE60201827T2.pdf	1119159 9f9d8053d06921fd7454c6f4950161d285d9e123	no	12
Warnings:					
Information:					
21	Foreign Reference	FRef21_DE112005003306T5.pdf	1512167 6eace51bedcefe71dc8ea6f0a658421a8c681e17	no	15
Warnings:					
Information:					
22	Foreign Reference	FRef22_DE60133316T2.pdf	2073005 0b7d9cb1fe49ab2cfbf09ba4a79bba61c579fead	no	22
Warnings:					
Information:					
23	Foreign Reference	FRef23_DE60317751T2.pdf	826323 483daaec48a2ae1ea36632e06273ad6e14c39926	no	9
Warnings:					
Information:					
24	Foreign Reference	FRef24_EP0841832A2.pdf	758379 4d5156c5c3db4d33e8f390e708b23c898eefac1e	no	9
Warnings:					
Information:					
25	Foreign Reference	FRef25_EP0841832A3.pdf	235091 a6d030529f93eba0307027ca64fa6351eff52f30	no	3
Warnings:					
Information:					
26	Foreign Reference	FRef26_EP1032224A2.pdf	1507492 b66fdda86c09b5cb6355ff4d794ebe1c29c2ab22	no	15
Warnings:					
Information:					
27	Foreign Reference	FRef27_EP1032224A3.pdf	227098 fab9d807b0fcbe48e55f6bb0965f2a86aa21a2e2	no	3
Warnings:					
Information:					
28	Foreign Reference	FRef28_EP1244250A1.pdf	1375810 491c74c40bc6870da6ebba229ee1bcfb74f3a49e	no	15
Warnings:					
Information:					

29	Foreign Reference	FRef29_EP1266516A2.pdf	232303 32c6c3e74bcab714f623d0b7164c0865703d70cb	no	3
Warnings:					
Information:					
30	Foreign Reference	FRef30_EP1362456A2.pdf	201764 d414145f3edbae068ab741133e25a8547bab204c	no	3
Warnings:					
Information:					
31	Foreign Reference	FRef31_EP1371173A1.pdf	192586 27004385fcd7f33d6eaa4cc950db18e1da222da8	no	3
Warnings:					
Information:					
32	Foreign Reference	FRef32_EP1411743A1.pdf	758578 07e12820c2ddf8741baf850d8b18bf16010f1761	no	9
Warnings:					
Information:					
33	Foreign Reference	FRef33_EP1526697A2.pdf	2485309 836e62ccbf6d63dc4a8844c19d299de31b2cdf35	no	24
Warnings:					
Information:					
34	Foreign Reference	FRef34_EP1362456A4.pdf	448171 1ccbee57f439c649369b71939e4787981fd6c2fb	no	6
Warnings:					
Information:					
35	Foreign Reference	FRef35_EP1575327A1.pdf	1278549 c5ff8e8c1636b7ef99aa10efa8e3542fe08a0822	no	14
Warnings:					
Information:					
36	Foreign Reference	FRef36_EP1610583A1.pdf	1280817 6f886a1fe38cc7944e2affb538f6de4c7c3fb9d4	no	14
Warnings:					
Information:					
37	Foreign Reference	FRef37_EP1526697A3.pdf	230778 bdb80ac61450132c8f6c8b1f497bf7bbc087debf	no	3
Warnings:					
Information:					

T-Mobile Exhibit 1002

38	Foreign Reference	FRef38_EP1721446A1.pdf	149760 c12dc86950622c5a9e01fc16ee3a682c06f31477	no	2
Warnings:					
Information:					
39	Foreign Reference	FRef39_EP1829300A1.pdf	195921 8a3ed67caaa669f3183ff35c05ae3a647423fb25	no	3
Warnings:					
Information:					
40	Foreign Reference	FRef40_EP1371173B1.pdf	1738177 069f2f942db1a537019c200d9b0530c55e6966b2	no	18
Warnings:					
Information:					
41	Foreign Reference	FRef41_EP1411743B1.pdf	762770 ebf3851c31f7662d9c1eda59c96efaab992660bb	no	9
Warnings:					
Information:					
42	Foreign Reference	FRef42_EP1362456B1.pdf	1883717 9b750b843d6f5b3bd04545d2ff7ffbcbf621578f	no	21
Warnings:					
Information:					
43	Foreign Reference	FRef43_EP1974304A2.pdf	196381 29d2f3d1725d7837fed4e5a7004fc85719df047b	no	3
Warnings:					
Information:					
44	Foreign Reference	FRef44_EP1974304A4.pdf	293312 66f9f1c13f96df8c3f50066776d3a467b53f111d	no	4
Warnings:					
Information:					
45	Foreign Reference	FRef45_EP1610583B1.pdf	1470579 0681150b1e402dbf0998e175d07302dabf0b7c25	no	15
Warnings:					
Information:					
46	Foreign Reference	FRef46_EP2127232A1.pdf	136823 a9b65fe4007f7068dd4365d3f2095d37c5eecf36	no	2
Warnings:					
Information:					

47	Foreign Reference	FRef47_EP2165489A1.pdf	135448 f2d181122dfddc9eeec51199f46eaa5b385a8de1	no	2
Warnings:					
Information:					
48	Foreign Reference	FRef48_EP2215755A1.pdf	187623 3ab8f469911de18093cbee37b4a4b5db5e72c05c	no	3
Warnings:					
Information:					
49	Foreign Reference	FRef49_EP2165489A4.pdf	226305 00c9292cd9e75dded893480f1ba1b308dc19f114	no	3
Warnings:					
Information:					
50	Foreign Reference	FRef50_EP2127232A4.pdf	315613 1d188490c5ca6d1e13dc000eb4b54d2fa8b7afb8	no	4
Warnings:					
Information:					
51	Foreign Reference	FRef51_EP1829300A4.pdf	276173 8977d6f4a2ab5bc505f6c35919da14078dc02afa	no	4
Warnings:					
Information:					
52	Foreign Reference	FRef52_EP2449749A1.pdf	144780 c4d5646435417ab1b6d0627af130c3fe97982e29	no	2
Warnings:					
Information:					
53	Foreign Reference	FRef53_EP2215755A4.pdf	269752 f7fb64ae232ffc99f8066abbace5058d05cd1abd	no	4
Warnings:					
Information:					
54	Foreign Reference	FRef54_EP1829300B1.pdf	220531 d3100d5fbd37a0343df1755b3197f1c87a796507	no	3
Warnings:					
Information:					
55		IDS_SMARB19_004C1_12_01_2014.pdf	751518 3719a129294a4588446ae45481977aa91af4e46d	yes	13

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Transmittal Letter	1	2
	Information Disclosure Statement (IDS) Form (SB08)	3	13
Warnings:			
Information:			
	Total Files Size (in bytes):	61313258	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

INFORMATION DISCLOSURE STATEMENT

Inventor	:	Johan Emil Viktor Björsell, et al.
App. No.	:	14/035,806
Filed	:	September 24, 2013
For	:	MOBILE GATEWAY
Examiner	:	Rahman, M. Mostazir
Art Unit	:	2413
Conf. No.	:	5562

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

References and Listing

Pursuant to 37 CFR 1.56, an Information Disclosure Statement listing references is provided herewith. Copies of any listed foreign and non-patent literature references are being submitted.

No Disclaimers

To the extent that anything in the Information Disclosure Statement or the listed references could be construed as a disclaimer of any subject matter supported by the present application, Applicant hereby rescinds and retracts such disclaimer.

Timing of Disclosure

This Information Disclosure Statement is being filed before the receipt of a First Office Action on the merits, and presumably no fee is required. If a First Office Action on the merits

was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 CFR 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 12/1/14

By: _____

John M. Carson
Registration No. 34,303
Attorney of Record
Customer No. 20995
(858) 707-4000

IDS
19431273
120114

Please Direct All Correspondence to Customer Number 20995

EFS WEB CONTINUING IDS COVER LETTER

Inventor	:	Johan Emil Viktor Björsell, et al.
App. No.	:	14/035,806
Filed	:	September 24, 2013
For	:	MOBILE GATEWAY
Examiner	:	Rahman, M. Mostazir
Art Unit	:	2413
Conf No.	:	5562

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Submitted herewith are references numbered 196 to 237 listed on the PTO/SB/08 or equivalent filed under EFS ID 20804317.

Please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 12/1/14

By: _____

John M. Carson
Registration No. 34,303
Attorney of Record
Customer No. 20995
(858) 707-4000

IDS-CON
19431382
120114

Electronic Acknowledgement Receipt

EFS ID:	20804317
Application Number:	14035806
International Application Number:	
Confirmation Number:	5562
Title of Invention:	MOBILE GATEWAY
First Named Inventor/Applicant Name:	Johan Emil Viktor Björsell
Customer Number:	20995
Filer:	John M Carson/Norman Green
Filer Authorized By:	John M Carson
Attorney Docket Number:	SMARB19.004C1
Receipt Date:	01-DEC-2014
Filing Date:	24-SEP-2013
Time Stamp:	18:06:22
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Foreign Reference	FRef55_EP2449749B1.pdf	1916042 c7ec55e0d9f34481443305592ea860b6979bb21d	no	21
Warnings:					
Information:					

2	Foreign Reference	FRef56_EP1266516B1.pdf	1664204 d52be8321c2a689d0166ecd32ebd803ccef7009f	no	18
Warnings:					
Information:					
3	Foreign Reference	FRef57_WO01069899A2.pdf	2259314 94e933342c98664c8d506cceac63b1bc08fbb3fb	no	28
Warnings:					
Information:					
4	Foreign Reference	FRef58_WO01069899A3.pdf	416928 bda88f4ab9a34fa3c2286ac66015aff2a43392a4	no	5
Warnings:					
Information:					
5	Foreign Reference	FRef59_WO0180587A1.pdf	1619706 85242829c5647845bc45ffd8aac6a19d342dfbbd	no	22
Warnings:					
Information:					
6	Foreign Reference	FRef60_WO02082728A1.pdf	2591192 16384beb042c600be3c0e0a879ee9503d244138c	no	34
Warnings:					
Information:					
7	Foreign Reference	FRef61_WO02082782A2.pdf	2914857 f0d50b28dfa8ff26b3fd3d549ccac52021cd732d	no	43
Warnings:					
Information:					
8	Foreign Reference	FRef62_WO02082782A3.pdf	257211 f2a654e281f862589306515292e189bb735b52a5	no	3
Warnings:					
Information:					
9	Foreign Reference	FRef63_WO2005084002A1.pdf	3900912 bf5c5251907802e72fe06271a28ee022af6b3e1b	no	47
Warnings:					
Information:					
10	Foreign Reference	FRef64_WO2006067269A1.pdf	3463501 2d7411d22abd0087e0e6286a27992edb9df69c28	no	42
Warnings:					
Information:					

11	Foreign Reference	FRef65_WO2006072099A1.pdf	2394748 ac5dfcf6234eafca9d46b61e13d08eca85c3aa5a	no	30
Warnings:					
Information:					
12	Foreign Reference	FRef66_WO2006078175A2.pdf	1037300 55a67b931a84a2b31550663a1166ec807d0f377c	no	13
Warnings:					
Information:					
13	Foreign Reference	FRef67_WO2006078175A3.pdf	271651 cb7df71eb16430d59ee154d3d7dc86b94ddfdf26	no	3
Warnings:					
Information:					
14	Foreign Reference	FRef68_WO2007044454A2.pdf	1995500 c9fa9928d60dffdaf6fcdeff504c08952b08345a	no	27
Warnings:					
Information:					
15	Foreign Reference	FRef69_WO2007087077A2.pdf	2004508 7f50929c2a209f3db466f990ac35a95b11071766	no	25
Warnings:					
Information:					
16	Foreign Reference	FRef70_WO2007087077A3.pdf	261160 071fc65c3cd0719ba4b2885bcf92de7e0ed0495d	no	3
Warnings:					
Information:					
17	Foreign Reference	FRef71_WO2008085614A2.pdf	3347354 12b402d41f292c3dd44c36531932dd683fe4b4fb	no	40
Warnings:					
Information:					
18	Foreign Reference	FRef72_WO2008085614A3.pdf	415791 7fea40fec0ec0117d53a4341437056129a65c9b7	no	5
Warnings:					
Information:					
19	Foreign Reference	FRef73_WO2008085614A8.pdf	254937 de8b70f513957e08800b0223b6f3f82bfb5d0ae4	no	4
Warnings:					
Information:					

20	Foreign Reference	FRef74_WO2008086350A2.pdf	2960802 65a44accd0215e7ebf8c8fd92d21781fc628 26f5	no	45
Warnings:					
Information:					
21	Foreign Reference	FRef75_WO2008086350A3.pdf	450316 bc738f5e7ed1ff2182902835b4806e906470 b4e3	no	6
Warnings:					
Information:					
22	Foreign Reference	FRef76_WO2008103652A1.pdf	2049308 57f7119548f95d8f26aa560cc9a18197c529 784d	no	28
Warnings:					
Information:					
23	Foreign Reference	FRef77_WO2008151406A1.pdf	2190191 270b6309c2aac77688db0bc59630f0ba505 dba0c	no	27
Warnings:					
Information:					
24	Foreign Reference	FRef78_WO2008151406A8.pdf	101547 58dfd5ffe0133f48384e374a19e46c1afd652 a32	no	1
Warnings:					
Information:					
25	Foreign Reference	FRef79_WO2009070202A1.pdf	4494015 b182cddf1e218b2914e6c531e9389f46d3ef 89c0	no	60
Warnings:					
Information:					
26	Foreign Reference	FRef80_WO2009070278A1.pdf	3899512 a1c07b2fba7574e3c53857c90de4ff95291c 67b3	no	49
Warnings:					
Information:					
27	Foreign Reference	FRef81_WO2011000405A1.pdf	2061771 7a0c468264115ea323bbd3f980ad7c941f4 4ec2f	no	27
Warnings:					
Information:					
28	Non Patent Literature	NRef1_Baker_Cisco_Support_Apr_2003.pdf	1089613 60278da852d7b93e5b5ab60105289f393cd 4fd5a	no	15
Warnings:					
Information:					

29	Non Patent Literature	NRef2_Bhushan_Federated_Accounting_2001.pdf	1342637 2ed16b50935f7a7bcb45d50bf4551263447076c9	no	15
Warnings:					
Information:					
30	Non Patent Literature	NRef3_Jajszczyk_Emergency_Calls_Sept_2007.pdf	435620 54549733f533cde854ba14e0cafc64fb35f67bce	no	3
Warnings:					
Information:					
31	Non Patent Literature	NRef4_Kim_Enhanced_VoIP_May_2006.pdf	904746 25d3bd2fd692570be10dbf833bb335f096515a60	no	8
Warnings:					
Information:					
32	Non Patent Literature	NRef5_Kornfeld_DVB_H_and_IP_Datacast_March_2007.pdf	1363178 24d14dd9f69e8c8c66ae9c1945cb711c88915afa	no	10
Warnings:					
Information:					
33	Non Patent Literature	NRef6_Kortebi_Meddour_SINR_Based_Routing_2007.pdf	841024 9cfabaeac68aaa41468a53a9f379b6b588cff735	no	6
Warnings:					
Information:					
34	Non Patent Literature	NRef7_Lee_VoIP_Interoperation_2004.pdf	644808 59423980e4c93115b22c514e44246eb926b24f29	no	7
Warnings:					
Information:					
35	Non Patent Literature	NRef8_Lin_Effective_VoIP_Call_Routing_2005.pdf	335804 d166b8fc7eea3224222ac929d424a66c4926aec9	no	3
Warnings:					
Information:					
36	Non Patent Literature	NRef9_Ma_Realizing_MPEG4_2005.pdf	514335 065f46bed6d8068577cbad7cb707f6f31f0f3d85	no	4
Warnings:					
Information:					
37	Non Patent Literature	NRef10_Mintz-Habib_A_VoIP_Emergency_2005.pdf	829844 0cde14452c1c8cfb988b4b4f2f5c8c339ac77657	no	6
Warnings:					
Information:					

38	Non Patent Literature	NRef11_Munir_Study_Adaptive_Scheme_2005.pdf	1516334 a6d2fc388fcc9647095760fbbc775ffb70cfabb1	no	17
Warnings:					
Information:					
39	Non Patent Literature	NRef12_Sripanidkulchai_Call_Routing_2007.pdf	784493 59615b3a52b42334065bf89d62a86c2c89a912e4	no	6
Warnings:					
Information:					
40	Non Patent Literature	NRef13_Thernelius_SIP_NAT_May_2000.pdf	5744783 0e8aa8758c56b1027d0655bcab94eeceea0079b2	no	69
Warnings:					
Information:					
41	Non Patent Literature	NRef14_Trad_Adaptive_VoIP_2004.pdf	1055406 b5546a1dd148bf40bc8ec8f7d7aa4613f2301c09	no	12
Warnings:					
Information:					
42	Non Patent Literature	NRef15_Yu_Service-Oriented_Issues_2006.pdf	901174 a1911e8afcc7ef5dfa2fcba549b65d2baca2f77c	no	10
Warnings:					
Information:					
43	Transmittal Letter	IDS_CON_TRANS_SMARB19_004C1_12_01_2014.pdf	29199 edce7c4656e7c9884202b8d391bd154dc7380cef	no	1
Warnings:					
Information:					
		Total Files Size (in bytes):	69527276		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 1 OF 1	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	6,445,694 B1	09-03-2002	Swartz, Robert	
	2	6,574,328 B1	06-03-2003	Wood et al.	
	3	6,785,266 B2	08-31-2004	Swartz, Robert	
	4	7,486,664 B2	02-03-2009	Swartz, Robert	
	5	7,512,117 B2	03-31-2009	Swartz, Robert	
	6	7,587,036 B2	09-08-2009	Wood et al.	
	7	7,764,777 B2	07-27-2010	Wood et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T^1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T^1

19562117
121614

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T^1 - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

Electronic Acknowledgement Receipt

EFS ID:	21002773
Application Number:	14035806
International Application Number:	
Confirmation Number:	5562
Title of Invention:	MOBILE GATEWAY
First Named Inventor/Applicant Name:	Johan Emil Viktor Björsell
Customer Number:	20995
Filer:	John M Carson/Norman Green
Filer Authorized By:	John M Carson
Attorney Docket Number:	SMARB19.004C1
Receipt Date:	18-DEC-2014
Filing Date:	24-SEP-2013
Time Stamp:	13:35:53
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		IDS_SMARB19_004C1_12_18_2014.pdf	90484 fd4efc2b7a7315f36b02b795245e54ccf82c7fa5	yes	3

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Transmittal Letter	1	2
	Information Disclosure Statement (IDS) Form (SB08)	3	3
Warnings:			
Information:			
	Total Files Size (in bytes):	90484	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

INFORMATION DISCLOSURE STATEMENT

Inventor	:	Johan Emil Viktor Björsell, et al.
App. No.	:	14/035,806
Filed	:	September 24, 2013
For	:	MOBILE GATEWAY
Examiner	:	Rahman, M. Mostazir
Art Unit	:	2413
Conf. No.	:	5562

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

References and Listing

Pursuant to 37 CFR 1.56, an Information Disclosure Statement listing references is provided herewith. Copies of any listed foreign and non-patent literature references are being submitted.

No Disclaimers

To the extent that anything in the Information Disclosure Statement or the listed references could be construed as a disclaimer of any subject matter supported by the present application, Applicant hereby rescinds and retracts such disclaimer.

Timing of Disclosure

This Information Disclosure Statement is being filed before the receipt of a First Office Action on the merits, and presumably no fee is required. If a First Office Action on the merits

was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 CFR 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 12/18/14

By: _____

John M. Carson
Registration No. 34,303
Attorney of Record
Customer No. 20995
(858) 707-4000

IDS
19562167
121614

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 1 OF 3	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	6,937,713 B1	08-30-2005	Kung et al.	
	2	8,111,690 B2	02-07-2012	Hussain et al.	
	3	8,219,115 B1	07-10-2012	Nelissen, Marco	
	4	8,228,837 B2	07-24-2012	Sheriff et al.	
	5	8,243,730 B1	08-14-2012	Wong et al.	
	6	8,275,404 B2	09-25-2012	Berger et al.	
	7	8,364,172 B2	01-29-2013	Guanfeng et al.	
	8	8,410,907 B2	04-02-2013	Twitchell, Jr., Robert W.	
	9	8,417,791 B1	04-09-2013	Peretz et al.	
	10	8,423,791 B1	04-16-2013	Yu et al.	
	11	8,468,196 B1	06-18-2013	Roskind et al.	
	12	8,493,931 B1	07-23-2013	Nix, John A.	
	13	8,532,075 B2	09-10-2013	Rassool et al.	
	14	8,682,919 B1	03-25-2014	Golliher, Geoffrey	
	15	8,713,098 B1	04-29-2014	Adya et al.	
	16	8,749,610 B1	06-10-2014	Gossweiler et al.	
	17	8,767,717 B2	07-01-2014	Siegel et al.	
	18	8,774,721 B2	07-08-2014	Hertel et al.	
	19	8,780,703 B1	07-15-2014	Eidelson et al.	
	20	8,792,374 B1	07-29-2014	Jain et al.	
	21	8,792,905 B1	07-29-2014	Li et al.	
	22	8,805,345 B2	08-12-2014	Ling et al.	
	23	8,810,392 B1	08-19-2014	Teller et al.	
	24	8,837,360 B1	09-16-2014	Mishra et al.	
	25	8,838,539 B1	09-16-2014	Ashcraft et al.	
	26	2001/0027478 A1	10-04-2001	Meier et al.	
	27	2011/0255553 A1	10-20-2011	Bobba et al.	
	28	2011/0261717 A1	10-27-2011	Akuzuwa et al.	

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 2 OF 3	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	29	2013/0223276 A1	08-29-2013	Padgett, Steven	
	30	2013/0237198 A1	09-12-2013	Vashi et al.	
	31	2013/0254301 A1	09-26-2013	Lin et al.	
	32	2013/0272297 A1	10-17-2013	Breen et al.	
	33	2013/0281147 A1	10-24-2013	Denman et al.	
	34	2014/0220944 A1	08-07-2014	Balasubramanian, Sanjeevi	
	35	2014/0244393 A1	08-28-2014	Rimmer et al.	
	36	2014/0247730 A1	09-04-2014	Thota et al.	
	37	2014/0269624 A1	09-18-2014	Khay-Ibbat et al.	
	38	2014/0324969 A1	10-30-2014	Riddle, Guy	
	39	2014/0337962 A1	11-13-2014	Brandstatter, Klaus	
	40	2014/0337961 A1	11-13-2014	Chien et al.	
	41	2014/0349602 A1	11-27-2014	Majumdar et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	42	CA 2 659 007 A1	09-27-2009	Google Inc		Abstract
	43	CA 2 778 905 A1	08-26-2010	Google Inc		Abstract
	44	CN 102137024 A	07-27-2011	Fujian Star Net Comm Co Ltd		Abstract
	45	JP 2011-199384 (A)	10-06-2011	Ricoh Co Ltd		Abstract
	46	WO 01/50693 A1	07-12-2001	WWW.Internet Solutions Limited		
	47	WO 03/027801 A2	04-03-2003	Bell-South Intellectual Property Corporation		
	48	WO 2013/120069 A1	08-15-2013	Connectify		
	49	WO 2014/066155 A2	05-01-2014	Google Inc.		
	50	WO 2014/117599 A1	08-07-2014	Huawei Tech Co Ltd		Abstract
	51	WO 2014-166258 A1	10-16-2014	ZTE Corp		Abstract

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 3 OF 3	Attorney Docket No.	SMARB19.004C1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	52	ETSI TS 122 173 V12.7.0 (2014-10) Digital cellular telecommunications system (Phase 2+); TECHNICAL SPECIFICATION 8.2.2.3- Interoperability with PSTN/ISDN and mobile CS Networks, Contents and Forward, pages 1-9; Sec. 8, pages 14-17.	
	53	Huitema *et al.*, "Architecture for Internet Telephony Service for Residential Customers," Academic Paper for *Bellcore*, March 2, 1999, pages 1-14.	
	54	Stallings, William, "The Session Initiation Protocol," *The Internet Protocol Journal*, Vol. 6, No. 1, March 2003, pages 20-30.	

19659169
010615

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

Electronic Acknowledgement Receipt

EFS ID:	21149660
Application Number:	14035806
International Application Number:	
Confirmation Number:	5562
Title of Invention:	MOBILE GATEWAY
First Named Inventor/Applicant Name:	Johan Emil Viktor Björsell
Customer Number:	20995
Filer:	John M Carson/Norman Green
Filer Authorized By:	John M Carson
Attorney Docket Number:	SMARB19.004C1
Receipt Date:	07-JAN-2015
Filing Date:	24-SEP-2013
Time Stamp:	19:28:33
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		IDS_SMARB19_004C1_01_07_2015.pdf	216977 389494f086ef56091f38e0efd6824aa3bcef8c02	yes	5

T-Mobile Exhibit 1002

	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Transmittal Letter		1	2	
	Information Disclosure Statement (IDS) Form (SB08)		3	5	
Warnings:					
Information:					
2	Foreign Reference	Ref42_CA2659007.pdf	4712669 b8ffbd7ea248ee05a2ef93c71c60676e2e6def4b	no	62
Warnings:					
Information:					
3	Foreign Reference	Ref43_CA2778905.pdf	7009768 b8f04de5e7d508ab8261631df13fd3f7fa20a564	no	82
Warnings:					
Information:					
4	Foreign Reference	Ref44_CN102137024A.pdf	1808580 4c531eb36dcb3065d8bb1903b2f67665b453d65b	no	18
Warnings:					
Information:					
5	Foreign Reference	Ref45_JP2011199384.pdf	1171823 300397098b0e1107a3b04e309dcb11191ade6184	no	13
Warnings:					
Information:					
6	Foreign Reference	Ref46_WO01050693A1.pdf	9161416 27e9e469d8be5d592552b89122af00384eb2231f	no	126
Warnings:					
Information:					
7	Foreign Reference	Ref47_WO03027801A2.pdf	1589172 35be5edf47019053d41eef2b46cb43d61c0ca754	no	20
Warnings:					
Information:					
8	Foreign Reference	Ref48_WO2013120069A1.pdf	2034106 9705f71c44c96dbd8fea783951cd4fe571a3844c	no	26
Warnings:					
Information:					

9	Foreign Reference	Ref49_WO2014066155A2.pdf	1656227 9edd609c44ff99c765f8f4c8b77d8dea81d70727	no	21
Warnings:					
Information:					
10	Foreign Reference	Ref50_WO2014117599A1.pdf	3367344 dbf3e55e175a40313dac74f70d297103fc7ef74f	no	40
Warnings:					
Information:					
11	Non Patent Literature	Ref51_WO2014166258A1.pdf	1536864 76474f066e67258940cb8ef7502c820178cb4c19	no	22
Warnings:					
Information:					
12	Non Patent Literature	Ref53_Huitema_et_al_Bellcore_1999.pdf	1361023 7efed91bc1685bbfb103874f69d7bfa6dff08f0f	no	14
Warnings:					
Information:					
13	Non Patent Literature	Ref54_Stallings_2003.pdf	1058786 3b18d11f32ef6c0efa3501eb9ab07965ec7e7ba4	no	12
Warnings:					
Information:					
		Total Files Size (in bytes):	36684755		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

INFORMATION DISCLOSURE STATEMENT

Inventor	:	Johan Emil Viktor Björsell, et al.
App. No.	:	14/035,806
Filed	:	September 24, 2013
For	:	MOBILE GATEWAY
Examiner	:	Rahman, M. Mostazir
Art Unit	:	2413
Conf. No.	:	5562

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

References and Listing

Pursuant to 37 CFR 1.56, an Information Disclosure Statement listing references is provided herewith. Copies of any listed foreign and non-patent literature references are being submitted. Any foreign references may also include English abstract(s) and/or machine translation(s), but no representation is made as to their accuracy.

If the Examiner would like additional information regarding these references or if anything is unclear, the Examiner is invited to contact the undersigned for assistance.

No Disclaimers

To the extent that anything in the Information Disclosure Statement or the listed references could be construed as a disclaimer of any subject matter supported by the present application, Applicant hereby rescinds and retracts such disclaimer.

Timing of Disclosure

This Information Disclosure Statement is being filed before the receipt of a First Office Action on the merits, and presumably no fee is required. If a First Office Action on the merits

was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 CFR 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 1/7/15

By: _____

John M. Carson
Registration No. 34,303
Attorney of Record
Customer No. 20995
(858) 707-4000

IDS
19661307
010615

Electronic Acknowledgement Receipt

EFS ID:	21149977
Application Number:	14035806
International Application Number:	
Confirmation Number:	5562
Title of Invention:	MOBILE GATEWAY
First Named Inventor/Applicant Name:	Johan Emil Viktor Björsell
Customer Number:	20995
Filer:	John M Carson/Norman Green
Filer Authorized By:	John M Carson
Attorney Docket Number:	SMARB19.004C1
Receipt Date:	07-JAN-2015
Filing Date:	24-SEP-2013
Time Stamp:	20:12:59
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Non Patent Literature	Ref52_ETSI_TS_122_173_V12_7_0_2014-10.pdf	1188696 6cf93c7e9b550351efec483bbf9b8b8536fe9d45	no	14
Warnings:					
Information:					

T-Mobile Exhibit 1002

Total Files Size (in bytes):	1188696

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3185205

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MAKSYM SOBOLYEV	03/22/2011
PENTTI KALEVI HUTTUNEN	03/23/2011
JOHAN EMIL VIKTOR BJORSELL	03/23/2011
EMIL MALAK	08/02/2013

RECEIVING PARTY DATA

Name:	DIGIFONICA (INTERNATIONAL) LIMITED
Street Address:	773 HORNBY STREET
City:	VANCOUVER, BRITISH COLUMBIA
State/Country:	CANADA
Postal Code:	V6Z 1S4

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14035806

CORRESPONDENCE DATA

Fax Number: (949)760-9502

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 9497600404
Email: efiling@knobbe.com
Correspondent Name: KNOBBE MARTENS OLSON AND BEAR, LLP
Address Line 1: 2040 MAIN STREET
Address Line 2: 14TH FLOOR
Address Line 4: IRVINE, CALIFORNIA 92614

ATTORNEY DOCKET NUMBER:	SMARB19.004C1
NAME OF SUBMITTER:	JOHN M. CARSON
SIGNATURE:	/John M. Carson/
DATE SIGNED:	01/15/2015
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 8

source=SMARB19.004C1_ExecutedAssignment_Bjorsell_Sobolyev_Huttunen#page1.tif
source=SMARB19.004C1_ExecutedAssignment_Bjorsell_Sobolyev_Huttunen#page2.tif
source=SMARB19.004C1_ExecutedAssignment_Bjorsell_Sobolyev_Huttunen#page3.tif
source=SMARB19.004C1_ExecutedAssignment_Bjorsell_Sobolyev_Huttunen#page4.tif
source=SMARB19.004C1_ExecutedAssignment_Bjorsell_Sobolyev_Huttunen#page5.tif
source=SMARB19.004C1_ExecutedAssignment_Bjorsell_Sobolyev_Huttunen#page6.tif
source=SMARB19.004C1_ExecutedAssignment_Malak#page1.tif
source=SMARB19.004C1_ExecutedAssignment_Malak#page2.tif

ASSIGNMENT

WHEREAS, Maksym Sobolyev, a UA citizen, residing at Canada, Pentti Kalevi Huttunen, a CA citizen, residing at Canada, Johan Emil Viktor Bjorsell, a SE citizen, residing at Canada, (collectively hereinafter referred to as "ASSIGNOR") invented certain new and useful improvements, technology, inventions, developments, ideas or discoveries related to MOBILE GATEWAY (collectively hereinafter referred to as the "Work") for which an International Patent Application No. PCT/CA2009/001062 was filed July 28, 2009 and for which an application for Letters Patent in the United States has been derived and filed with the United States Patent and Trademark Office and designated U.S. Patent App. No. 13/056277 (hereinafter the "Application");

AND WHEREAS, DIGIFONICA (INTERNARTIONAL) LIMITED, a an entity organized under the laws of Canada, with its principal place of business at 1401, 4710 Kingsway, Burnaby, British Columbia, v5H 4M2 Canada (hereinafter the "ASSIGNEE"), desires to acquire the entire right, title, and interest in and to the International Application the United States application and the Work:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby acknowledges that ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in the International Application, the United States Application and the Work, including all provisional applications relating thereto (including but not limited to U.S. Provisional Application No. 61/129,898, filed July 28, 2008), and all nonprovisional applications claiming priority thereto, including, all divisions, continuations, continuations-in-part, reissues, and reexaminations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and any related Letters Patent which may hereafter be granted or filed in any country or countries foreign to the United States, all extensions, renewals and reissues thereof; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all related Letters Patent to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

AND ASSIGNOR DOES HEREBY covenant and agree that ASSIGNOR will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Work, and testify in any legal proceeding, assist in the preparation of any other provisional or non-provisional applications relating to the Application and the Work or any improvements made thereto, sign all lawful papers, execute and make all rightful oaths and/or declarations in connection with the Application and the Work including any improvements made thereto, any patent applications filed therefrom, and any continuing application filed from any of the aforementioned applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Work in all countries.

EB

T-Mobile Exhibit 1002

This 23 day of March, 2011.

Johan Emil Viktor Bjorsell

Witnessed by:

Printed Name: Vanessa Corby

This ___ day of _____, 20___.

Maksym Sobolyev

Witnessed by:

Printed Name:

This ___ day of _____, 20___.

Pentti Kalevi Huttunen

Witnessed by:

Printed Name:

10677041

EB

ASSIGNMENT

WHEREAS, Maksym Sobolyev, a UA citizen, residing at Canada, Pentti Kalevi Huttunen, a CA citizen, residing at Canada, Johan Emil Viktor Bjorsell, a SE citizen, residing at Canada, (collectively hereinafter referred to as "ASSIGNOR") invented certain new and useful improvements, technology, inventions, developments, ideas or discoveries related to MOBILE GATEWAY (collectively hereinafter referred to as the "Work") for which an International Patent Application No. PCT/CA2009/001062 was filed July 28, 2009 and for which an application for Letters Patent in the United States has been derived and filed with the United States Patent and Trademark Office and designated U.S. Patent App. No. 13/056277 (hereinafter the "Application");

AND WHEREAS, DIGIFONICA (INTERNARTIONAL) LIMITED, a an entity organized under the laws of Canada, with its principal place of business at 1401, 4710 Kingsway, Burnaby, British Columbia, v5H 4M2 Canada (hereinafter the "ASSIGNEE"), desires to acquire the entire right, title, and interest in and to the International Application the United States application and the Work:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby acknowledges that ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in the International Application, the United States Application and the Work, including all provisional applications relating thereto (including but not limited to U.S. Provisional Application No. 61/129,898, filed July 28, 2008), and all nonprovisional applications claiming priority thereto, including, all divisions, continuations, continuations-in-part, reissues, and reexaminations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and any related Letters Patent which may hereafter be granted or filed in any country or countries foreign to the United States, all extensions, renewals and reissues thereof; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all related Letters Patent to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

AND ASSIGNOR DOES HEREBY covenant and agree that ASSIGNOR will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Work, and testify in any legal proceeding, assist in the preparation of any other provisional or non-provisional applications relating to the Application and the Work or any improvements made thereto, sign all lawful papers, execute and make all rightful oaths and/or declarations in connection with the Application and the Work including any improvements made thereto, any patent applications filed therefrom, and any continuing application filed from any of the aforementioned applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Work in all countries.

T-Mobile Exhibit 1002

This ___ day of _____, 20___.

_____ Johan Emil Viktor Bjorsell

Witnessed by: _____

Printed Name: _____

This ___ day of _____, 20___.

_____ Maksym Sobolyev

Witnessed by: _____

Printed Name: _____

This 23 day of March, 2011.

Pentti Kalevi Huttunen

Witnessed by: _____

Printed Name: AUGUST KILPONEN

10677041

ASSIGNMENT

WHEREAS, Maksym Sobolyev, a UA citizen, residing at Canada, Pentti Kalevi Huttunen, a CA citizen, residing at Canada, Johan Emil Viktor Bjorsell, a SE citizen, residing at Canada, (collectively hereinafter referred to as "ASSIGNOR") invented certain new and useful improvements, technology, inventions, developments, ideas or discoveries related to MOBILE GATEWAY (collectively hereinafter referred to as the "Work") for which an International Patent Application No. PCT/CA2009/001062 was filed July 28, 2009 and for which an application for Letters Patent in the United States has been derived and filed with the United States Patent and Trademark Office and designated U.S. Patent App. No. 13/056277 (hereinafter the "Application");

AND WHEREAS, DIGIFONICA (INTERNARTIONAL) LIMITED, a an entity organized under the laws of Canada, with its principal place of business at 1401, 4710 Kingsway, Burnaby, British Columbia, v5H 4M2 Canada (hereinafter the "ASSIGNEE"), desires to acquire the entire right, title, and interest in and to the International Application the United States application and the Work:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby acknowledges that ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in the International Application, the United States Application and the Work, including all provisional applications relating thereto (including but not limited to U.S. Provisional Application No. 61/129,898, filed July 28, 2008), and all nonprovisional applications claiming priority thereto, including, all divisions, continuations, continuations-in-part, reissues, and reexaminations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and any related Letters Patent which may hereafter be granted or filed in any country or countries foreign to the United States, all extensions, renewals and reissues thereof; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all related Letters Patent to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

AND ASSIGNOR DOES HEREBY covenant and agree that ASSIGNOR will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Work, and testify in any legal proceeding, assist in the preparation of any other provisional or non-provisional applications relating to the Application and the Work or any improvements made thereto, sign all lawful papers, execute and make all rightful oaths and/or declarations in connection with the Application and the Work including any improvements made thereto, any patent applications filed therefrom, and any continuing application filed from any of the aforementioned applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Work in all countries.

MS

T-Mobile Exhibit 1002

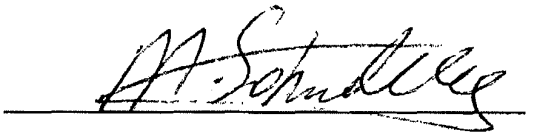
This ___ day of _____, 20___.

_____ Johan Emil Viktor Bjorsell

Witnessed by: _____

Printed Name: _____

This 22 day of March, 2011.



Maksym Sobolyev

Witnessed by: 

Printed Name: Tatiana Girya

This ___ day of _____, 20___.

_____ Pentti Kalevi Huttunen

Witnessed by: _____

Printed Name: _____

10677041

T-Mobile Exhibit 1002

ASSIGNMENT

WHEREAS, Emil Malak, a CA citizen, residing at Canada (hereinafter referred to as "ASSIGNOR") invented certain new and useful improvements, technology, inventions, developments, ideas or discoveries related to MOBILE GATEWAY (collectively hereinafter referred to as the "Work") for which an application for Letters Patent in the United States has been filed with the United States Patent and Trademark Office and designated U.S. Patent App. No. 13/056277 (hereinafter the "Application");

AND WHEREAS, DIGIFONICA (INTERNATIONAL) LIMITED, an entity organized under the Companies Act of Gibraltar and having a Canadian Address of 773 Hornby Street Vancouver British Columbia, V6Z 1S4 Canada, (formerly 1401, 4710 Kingsway, Burnaby, British Columbia, V5H 4M2 Canada (hereinafter the "ASSIGNEE"), desires to acquire the entire right, title, and interest in and to the Application and the Work:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby acknowledges that ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in the Application and the Work, including all provisional applications relating thereto (including but not limited to U.S. Provisional Application No. 61/129,898, filed July 28, 2008), and all nonprovisional applications claiming priority thereto, including, all divisions, continuations, continuations-in-part, reissues, and reexaminations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and any related Letters Patent which may hereafter be granted or filed in any country or countries foreign to the United States, all extensions, renewals and reissues thereof; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all related Letters Patent to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

AND ASSIGNOR DOES HEREBY covenant and agree that ASSIGNOR will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Work, and testify in any legal proceeding, assist in the preparation of any other provisional or non-provisional applications relating to the Application and the Work or any improvements made thereto, sign all lawful papers, execute and make all rightful oaths and/or declarations in connection with the Application and the Work including any improvements made thereto, any patent applications filed therefrom, and any continuing application filed from any of the aforementioned applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Work in all countries.

T-Mobile Exhibit 1002

This 2nd day of August, 2013.

Emil Malak

Witnessed by: [signature]

Printed Name: Erica Nath

Docket No.: SMARB19.004C1

Please Direct All Correspondence to Customer Number 20995

RESPONSE TO INFORMATIONAL NOTICE

Inventor	:	Johan Emil Viktor Björsell
App. No.	:	14/035,806
Filed	:	September 24, 2013
For	:	MOBILE GATEWAY
Art Unit	:	2413
Conf No.	:	5562

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

The above-captioned application was filed without a Declaration and/or Substitute Statement. Enclosed in compliance with 37 CFR 1.53(f) is the following.

(X) Declaration for:

Emil Malak

The Commissioner is hereby authorized to charge any additional fees which may be required, now or in the future, or credit any overpayment to Account No. 11-1410.

Dated: 1/26/15

John M. Carson
Registration No. 34,303
Attorney of Record
Customer No. 20995
(858) 707-4000

19785836
012015

PTO/SB/01 (09-12)
Approved for use through 09/30/2015. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	MOBILE GATEWAY

As the below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ The attached application, or
- ☒ United States application or PCT international application number 14/035,806 filed on September 24, 2013

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: Emil Malak Date (Optional): 15 January 2015

Signature:

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Electronic Acknowledgement Receipt

EFS ID:	21308252
Application Number:	14035806
International Application Number:	
Confirmation Number:	5562
Title of Invention:	MOBILE GATEWAY
First Named Inventor/Applicant Name:	Johan Emil Viktor Björsell
Customer Number:	20995
Filer:	John M Carson/Christina Graul
Filer Authorized By:	John M Carson
Attorney Docket Number:	SMARB19.004C1
Receipt Date:	26-JAN-2015
Filing Date:	24-SEP-2013
Time Stamp:	15:53:08
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	SMARB19_004C1_Transmittal_Decl.pdf	29239 609b9be2f6a4639ef500101c1012091381bb27aa	no	1
Warnings:					
Information:					

2	Oath or Declaration filed	SMARB19_004C1_Declaration_EmilMalak.pdf	295094 af33e5843d97582d0801d7adbdf2d69cf86186e3	no	1
Warnings:					
Information:					
			Total Files Size (in bytes):	324333	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82A (07-13)
Approved for use through 11/30/2014. OMB 0651-0051
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	14/035,806
Filing Date	September 24, 2013
First Named Inventor	Johan Emil Viktor Björsell
Title	MOBILE GATEWAY
Art Unit	2413
Examiner Name	M Mostazir Rahman
Attorney Docket Number	SMARB19.004C1

SIGNATURE of Applicant or Patent Practitioner

Signature		Date (Optional)	1/29/15
Name	John M. Carson	Registration Number	34,303
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.

☑ *Total of one (1) forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

T-Mobile Exhibit 1002

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82B (07-13)
Approved for use through 11/30/2014. OMB 0651-0051
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

☒ I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above: 20995

OR

☐ I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:

☒ The address associated with the above-mentioned Customer Number

OR

☐ The address associated with Customer Number:

OR

Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

Digifonica (International) Limited

☐ Inventor or Joint Inventor (title not required below)

☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)

☒ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)

☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature		Date (Optional)	Dec 12, 2013
Name			
Title			

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

☐ Total of forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

T-Mobile Exhibit 1002

PTO/AIA/96 (08-12)
Approved for use through 01/31/2013. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: DIGIFONICA (INTERNATIONAL) LIMITED

Application No./Patent No.: 14/035,806 Filed/Issue Date: September 24, 2013

Titled: MOBILE GATEWAY

_____, a Corporation

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☑ The assignee of the entire right, title, and interest.

2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):

   ☐ The extent (by percentage) of its ownership interest is _____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.

   ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (*e.g.*, bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

A. ☑ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 034731, Frame 0118, or for which a copy thereof is attached.

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: _____ To: _____

   The document was recorded in the United States Patent and Trademark Office at

   Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

   The document was recorded in the United States Patent and Trademark Office at

   Reel _____, Frame _____, or for which a copy thereof is attached.

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

T-Mobile Exhibit 1002

PTO/AIA/96 (08-12)
Approved for use through 01/31/2013. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

4. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☐ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Signature	Date 1/29/15
John M. Carson	34,303
Printed or Typed Name	Title or Registration Number

T-Mobile Exhibit 1002

CORRECTED APPLICATION DATA SHEET

Application Information

Application Number: 14/035,806

Filing Date: September 24, 2013

Correspondence Information

Correspondence Customer Number: 20995

Phone Number: (949) 760-0404

Fax Number: (949) 760-9502

E-Mail Address: efiling@knobbe.com

Representative Information

Representative Customer Number: 20995

Second Inventor Information

Given Name: Maksym

Family Name: Sobolyev

State or Prov. of Residence: New Westminster

Country of Residence: ~~CA~~ CANADA

Applicant Information

Applicant Name: ~~Johan Emil Viktor Björsell~~

City: ~~Vancouver~~

Country: ~~CANADA~~

Applicant Name: ~~Maksym Sobolyev~~

City: ~~New Westminster~~

Country: ~~CA~~

Applicant Name:	~~Pentti Kalevi Huttunen~~
City:	~~Vancouver~~
Country:	~~CANADA~~
Applicant Name:	~~Emil Malak~~
City:	~~Vancouver~~
Country:	~~CANADA~~
Applicant Name:	DIGIFONICA (INTERNATIONAL) LIMITED
City:	Vancouver
Country:	CANADA

Dated: 1/29/15

By: _____

John M. Carson
Registration No. 34,303
Attorney of Record
Customer No. 20995
(858) 707-4000

19846213
012815

Docket No.: SMARB19.004C1

Please Direct All Correspondence to Customer Number 20995

REQUEST TO CORRECT APPLICANT FOR PATENT

Inventor	:	Johan Emil Viktor Björsell
App. No	:	14/035,806
Filed	:	September 24, 2013
For	:	MOBILE GATEWAY
Examiner	:	M Mostazir Rahman
Art Unit	:	2413

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

This request to correct the name of the Applicant is being made **after** a Non-Inventor Applicant has been named under 37 CFR 1.46. Accordingly pursuant to 37 CFR 1.46(c), this Request is accompanied by:

1. An Application Data Sheet outlining changes being made to the designation of Applicant; and
2. Statement Under 3.73 identifying the complete chain of title to the current Non-Inventor Applicant.

T-Mobile Exhibit 1002

Docket No.: SMARB19.004C1

Please Direct All Correspondence to Customer Number 20995

No fee is believed to be due, however, the Commissioner is hereby authorized to charge any fee associated with this request, or credit overpayment to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE MARTENS OLSON & BEAR LLP

Dated: 1/29/15

By: _____

John M. Carson
Registration No. 34,303
Attorney of Record
Customer No. 20995
(858) 707-4000

19846081 // 012815

Electronic Acknowledgement Receipt

EFS ID:	21349736
Application Number:	14035806
International Application Number:	
Confirmation Number:	5562
Title of Invention:	MOBILE GATEWAY
First Named Inventor/Applicant Name:	Johan Emil Viktor Björsell
Customer Number:	20995
Filer:	John M Carson/Heide Young
Filer Authorized By:	John M Carson
Attorney Docket Number:	SMARB19.004C1
Receipt Date:	29-JAN-2015
Filing Date:	24-SEP-2013
Time Stamp:	18:35:53
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	SMARB19_004C1_POA.pdf	163238 bbae4d9bc12e317f121ad3d368c767813ee2dc85	no	2

Warnings:	
Information:	

T-Mobile Exhibit 1002

2	Assignee showing of ownership per 37 CFR 3.73.	SMARB19_004C1_373_Statement.pdf	111157 6adb8c8a04653cb67731af05acf069f9de932e2c	no	2
Warnings:					
Information:					
3	Application Data Sheet	SMARB19_004C1_CorrectedADS.pdf	40534 10754e4f0cc277faecea7a104f1b6c8f11a5640b	no	2
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
4	Transmittal Letter	SMARB19_004C1_RequestToCorrect.pdf	41048 c4581a560db0d90234bf4ea5a570298d985d81a7	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	355977		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/035,806	09/24/2013	Johan Emil Viktor Björsell	SMARB19.004C1

CONFIRMATION NO. 5562

IMPROPER CPOA LETTER

20995
KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614



Date Mailed: 02/05/2015

NOTICE REGARDING POWER OF ATTORNEY

This is in response to the power of attorney filed 01/29/2015. The power of attorney in this application is not accepted for the reason(s) listed below:

- The power of attorney has not been accepted because the party who is giving power has not been identified. Power of attorney may only be signed by the applicant for patent (37 CFR 1.42) or the patent owner. A party who is not the applicant must become the applicant in accordance with 37 CFR 1.46(c) and appoint any power of attorney in compliance with 37 CFR 3.71 and 3.73. For a reissue application, reexamination proceeding, or supplemental examination proceeding, a patent owner who was not the applicant under 37 CFR 1.46 must appoint any power of attorney in compliance with 37 CFR 3.71 and 3.73. See 37 CFR 1.32(b)(4).

/byemane/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/035,806	09/24/2013	Johan Emil Viktor Björsell	SMARB19.004C1

CONFIRMATION NO. 5562

IMPROPER CFR REQUEST

20995
KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

OC000000073216966

Date Mailed: 02/05/2015

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

Power of Attorney, Claims, Fees, System Limitations, and Miscellaneous

In response to your request for a corrected Filing Receipt, the Office is unable to comply with your request because:

- The ADS submitted on 01/29/2015 did not contain the entire section containing the desired changes. For any section of information being changed relative to the information already of record, the application data sheet must include the section headings listed in 37 CFR 1.76(b) for each section being changed, additions must be shown with underlining, and deletions must be shown with strike-through or brackets. See 37 CFR 1.76(c)(2).

/byemane/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

To: jayna.cartee@knobbe.com,efiling@knobbe.com,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 20995

Feb 05, 2015 05:33:31 AM

Dear PAIR Customer:

KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614
UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 20995 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

Disclaimer:
The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

Application	Document	Mailroom Date	Attorney Docket No.
14035806	N572	02/05/2015	SMARB19.004C1
	M327	02/05/2015	SMARB19.004C1

To view your correspondence online or update your email addresses, please visit us anytime at https://sportal.uspto.gov/secure/myportal/privatepair.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

To: jayna.cartee@knobbe.com,efiling@knobbe.com,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 20995

Feb 05, 2015 05:33:31 AM

Dear PAIR Customer:

KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614
UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 20995 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

Disclaimer:
The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

Application	Document	Mailroom Date	Attorney Docket No.
14035806	N572	02/05/2015	SMARB19.004C1
	M327	02/05/2015	SMARB19.004C1

To view your correspondence online or update your email addresses, please visit us anytime at https://sportal.uspto.gov/secure/myportal/privatepair.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2411
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 1 OF 1	Attorney Docket No.	DIGIF.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	5,917,899	06-29-1999	Moss et al.	
	2	6,005,870	12-21-1999	Leung et al.	
	3	6,597,783 B1	07-22-2003	Tada et al.	
	4	6,873,599 B1	03-29-2005	Han, Yihwu	
	5	7,010,727 B1	03-07-2006	Stucker, Brian	
	6	2007/0217354 A1	09-20-2007	Buckley, Adrian	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T^1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T^1

20479964
042015

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T^1 - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

Electronic Acknowledgement Receipt

EFS ID:	22128497
Application Number:	14035806
International Application Number:	
Confirmation Number:	5562
Title of Invention:	MOBILE GATEWAY
First Named Inventor/Applicant Name:	Johan Emil Viktor Björsell
Customer Number:	20995
Filer:	John M Carson/Norman Green
Filer Authorized By:	John M Carson
Attorney Docket Number:	DIGIF.004C1
Receipt Date:	21-APR-2015
Filing Date:	24-SEP-2013
Time Stamp:	18:24:48
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		IDS_DIGIF_004C1_04_21_2015.pdf	88880 70880603f42021776eb154696b8c7b14c41f8629	yes	3

T-Mobile Exhibit 1002

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Transmittal Letter	1	2
	Information Disclosure Statement (IDS) Form (SB08)	3	3
Warnings:			
Information:			
	Total Files Size (in bytes):	88880	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

INFORMATION DISCLOSURE STATEMENT

Inventor	:	Johan Emil Viktor Björsell, et al.
App. No.	:	14/035,806
Filed	:	September 24, 2013
For	:	MOBILE GATEWAY
Examiner	:	Rahman, M. Mostazir
Art Unit	:	2411
Conf. No.	:	5562

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

References and Listing

Pursuant to 37 CFR 1.56, an Information Disclosure Statement listing references is provided herewith. Copies of any listed foreign and non-patent literature references are being submitted.

No Disclaimers

To the extent that anything in the Information Disclosure Statement or the listed references could be construed as a disclaimer of any subject matter supported by the present application, Applicant hereby rescinds and retracts such disclaimer.

Timing of Disclosure

This Information Disclosure Statement is being filed before the receipt of a First Office Action on the merits, and presumably no fee is required. If a First Office Action on the merits

T-Mobile Exhibit 1002

was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 CFR 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 4/21/15

By: _____

John M. Carson
Registration No. 34,303
Attorney of Record
Customer No. 20995
(858) 707-4000

IDS
20479983
042015

Docket No.: DIGIF.004C1

Please Direct All Correspondence to Customer Number 20995

REQUEST TO CORRECT APPLICANT FOR PATENT

Inventor	:	Johan Emil Viktor Björsell
App. No	:	14/035,806
Filed	:	September 24, 2013
For	:	MOBILE GATEWAY
Examiner	:	M Mostazir Rahman
Art Unit	:	2413
Conf. No.	:	5562

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

This request to correct the name of the Applicant is being made **after** a Non-Inventor Applicant has been named under 37 CFR 1.46. Accordingly pursuant to 37 CFR 1.46(c), this Request is accompanied by:

1. An Application Data Sheet outlining changes being made to the designation of Applicant; and
2. Statement Under 3.73 identifying the complete chain of title to the current Non-Inventor Applicant.

T-Mobile Exhibit 1002

Docket No.: DIGIF.004C1

Please Direct All Correspondence to Customer Number 20995

No fee is believed to be due, however, the Commissioner is hereby authorized to charge any fee associated with this request, or credit overpayment to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE MARTENS OLSON & BEAR LLP

Dated: 4/24/15

By: _____

John M. Carson
Registration No. 34,303
Attorney of Record
Customer No. 20995
(858) 707-4000

19919509 // 020615

CORRECTED APPLICATION DATA SHEET

Application Information

Application Number: 14/035,806

Filing Date: September 24, 2013

Correspondence Information

Correspondence Customer Number: 20995

Phone Number: (949) 760-0404

Fax Number: (949) 760-9502

E-Mail Address: efiling@knobbe.com

Representative Information

Representative Customer Number: 20995

Inventor Information

Given Name: Johan

Middle Name: Emil Viktor

Family Name: Björsell

City of Residence: Vancouver

Country of Residence: CANADA

Given Name: Maksym

Family Name: Sobolyev

City of Residence: Westminster

Country of Residence: ~~CA~~ CANADA

Given Name:	Pentti
Middle Name:	Kalevi
Family Name:	Huttunen
City of Residence:	Vancouver
Country of Residence:	CANADA

Given Name:	Emil
Family Name:	Malak
City of Residence:	Vancouver
Country of Residence:	CANADA

Applicant Information

Applicant Name:	~~Johan Emil Viktor Björsell~~
City:	~~Vancouver~~
Country:	~~CANADA~~

Applicant Name:	~~Maksym Sobolyev~~
City:	~~New Westminster~~
Country:	~~CA~~

Applicant Name:	~~Pentti Kalevi Huttunen~~
City:	~~Vancouver~~
Country:	~~CANADA~~

Applicant Name:	~~Emil Malak~~
City:	~~Vancouver~~
Country:	~~CANADA~~

Applicant Name: DIGIFONICA (INTERNATIONAL) LIMITED
City: Vancouver
Country: CANADA

Dated: 4/24/15

By: _____
John M. Carson
Registration No. 34,303
Attorney of Record
Customer No. 20995
(858) 707-4000

19912356
020515

PTO/AIA/96 (08-12)
Approved for use through 01/31/2013. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: DIGIFONICA (INTERNATIONAL) LIMITED

Application No./Patent No.: 14/035,806 Filed/Issue Date: September 24, 2013

Titled: MOBILE GATEWAY

DIGIFONICA (INTERNATIONAL) LIMITED, a Corporation

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☑ The assignee of the entire right, title, and interest.

2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):

   ☐ The extent (by percentage) of its ownership interest is _____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.

   ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (*e.g.*, bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

A. ☑ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 034731, Frame 0118, or for which a copy thereof is attached.

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

   1. From: _____ To: _____

      The document was recorded in the United States Patent and Trademark Office at

      Reel _____, Frame _____, or for which a copy thereof is attached.

   2. From: _____ To: _____

      The document was recorded in the United States Patent and Trademark Office at

      Reel _____, Frame _____, or for which a copy thereof is attached.

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

T-Mobile Exhibit 1002

PTO/AIA/96 (08-12)
Approved for use through 01/31/2013. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

4. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☐ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Signature	Date: 4/24/15
John M. Carson	34,303
Printed or Typed Name	Title or Registration Number

T-Mobile Exhibit 1002

Electronic Acknowledgement Receipt

EFS ID:	22166083
Application Number:	14035806
International Application Number:	
Confirmation Number:	5562
Title of Invention:	MOBILE GATEWAY
First Named Inventor/Applicant Name:	Johan Emil Viktor Björsell
Customer Number:	20995
Filer:	John M Carson/Anthony Bonilla
Filer Authorized By:	John M Carson
Attorney Docket Number:	DIGIF.004C1
Receipt Date:	24-APR-2015
Filing Date:	24-SEP-2013
Time Stamp:	18:11:19
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		DIGIF_004C1_CorrectApplicant.pdf	192113 3003f1af5f9f756f0a713f072fe06f723e410ef0	yes	7

T-Mobile Exhibit 1002

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Transmittal Letter	1	2
	Application Data Sheet	3	5
	Assignee showing of ownership per 37 CFR 3.73	6	7
Warnings:			
Information:			
	Total Files Size (in bytes):	192113	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

T-Mobile Exhibit 1002

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
14/035,806	09/24/2013	2411	6140	DIGIF.004C1	129	8

CONFIRMATION NO. 5562

CORRECTED FILING RECEIPT

20995
KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

OC000000074875566

Date Mailed: 04/30/2015

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

Johan Emil Viktor Björsell, Vancouver, CANADA;
Maksym Sobolyev, New Westminster, CANADA;
Pentti Kalevi Huttunen, Vancouver, CANADA;
Emil Malak, Vancouver, CANADA;

Applicant(s)

DIGIFONICA (INTERNATIONAL) LIMITED, Vancouver, CANADA

Assignment For Published Patent Application

Digifonica (International) Limited, Vancover, CANADA

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 13/056,277 01/27/2011 PAT 8630234
which is a 371 of PCT/CA2009/001062 07/28/2009
which claims benefit of 61/129,898 07/28/2008

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

If Required, Foreign Filing License Granted: 10/08/2013
The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/035,806**
Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No
**** SMALL ENTITY ****
Title

MOBILE GATEWAY

Preliminary Class

370

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

To: jayna.cartee@knobbe.com,efiling@knobbe.com,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 20995

Apr 30, 2015 05:24:50 AM

Dear PAIR Customer:

KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614
UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 20995 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

Disclaimer:
The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

Application	Document	Mailroom Date	Attorney Docket No.
14035806	APP.FILE.REC	04/30/2015	DIGIF.004C1

To view your correspondence online or update your email addresses, please visit us anytime at https://sportal.uspto.gov/secure/myportal/privatepair.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82A (07-13)
Approved for use through 11/30/2014. OMB 0651-0051
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	14/035,806
Filing Date	September 24, 2013
First Named Inventor	Johan Emil Viktor Björsell
Title	MOBILE GATEWAY
Art Unit	2411
Examiner Name	M Mostazir Rahman
Attorney Docket Number	DIGIF.004C1

SIGNATURE of Applicant or Patent Practitioner

Signature		Date (Optional)	5/6/15
Name	John M. Carson	Registration Number	34,303
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.

☑ *Total of one (1) forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

T-Mobile Exhibit 1002

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82B (07-13)
Approved for use through 11/30/2014. OMB 0651-0051
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

☒ I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above: 20995

OR

☐ I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:

☒ The address associated with the above-mentioned Customer Number

OR

☐ The address associated with Customer Number:

OR

Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

Digifonica (International) Limited

☐ Inventor or Joint Inventor (title not required below)

☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)

☒ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)

☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature		Date (Optional)	Dec 12, 2013
Name			
Title			

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

☐ Total of forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

T-Mobile Exhibit 1002

Electronic Acknowledgement Receipt

EFS ID:	22268832
Application Number:	14035806
International Application Number:	
Confirmation Number:	5562
Title of Invention:	MOBILE GATEWAY
First Named Inventor/Applicant Name:	Johan Emil Viktor Björsell
Customer Number:	20995
Filer:	John M Carson/Christina Graul
Filer Authorized By:	John M Carson
Attorney Docket Number:	DIGIF.004C1
Receipt Date:	06-MAY-2015
Filing Date:	24-SEP-2013
Time Stamp:	13:55:10
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	DIGIF_004C1_PowerOA.pdf	173035 96d6241010fff1e234e8655a2131e39447375462	no	2
Warnings:					
Information:					

Total Files Size (in bytes):	173035

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

T-Mobile Exhibit 1002

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/035,806	09/24/2013	Johan Emil Viktor Björsell	DIGIF.004C1

CONFIRMATION NO. 5562

20995
KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

POA ACCEPTANCE LETTER

OC000000075064892

Date Mailed: 05/11/2015

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 05/06/2015.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/snguyen/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

To: jayna.cartee@knobbe.com,efiling@knobbe.com,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 20995

May 11, 2015 05:21:22 AM

Dear PAIR Customer:

KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614
UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 20995 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

Disclaimer:
The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

Application	Document	Mailroom Date	Attorney Docket No.
14035806	N570	05/11/2015	DIGIF.004C1

To view your correspondence online or update your email addresses, please visit us anytime at https://sportal.uspto.gov/secure/myportal/privatepair.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2411
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 1 OF 6	Attorney Docket No.	DIGIF.004C1

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	6,327,351 B1	12-04-2001	Walker et al.	
	2	7,203,478 B2	04-10-2007	Benco et al.	
	3	7,958,233 B2	06-07-2011	Gutierrez, Alvaro Fernández	
	4	8,078,164 B2	12-13-2011	Ganesan, Vasudevan	
	5	8,127,005 B2	02-28-2012	Gutierrez, Alvaro Fernández	
	6	8,166,547 B2	04-24-2012	Bevan et al.	
	7	8,190,739 B2	05-29-2012	Gutierrez, Alvaro Fernández	
	8	8,223,927 B2	07-17-2012	Di Serio et al.	
	9	8,300,632 B2	10-30-2012	Davis et al.	
	10	8,315,521 B2	11-20-2012	Leiden et al.	
	11	8,396,445 B2	03-12-2013	Crawford et al.	
	12	8,526,306 B2	09-03-2013	Jungck et al.	
	13	8,599,747 B1	12-03-2013	Saleem et al.	
	14	8,599,837 B2	12-03-2013	Kyle, Andre B.	
	15	8,634,838 B2	01-21-2014	Hellwig et al.	
	16	8,774,378 B2	07-08-2014	Björsell et al.	
	17	8,819,566 B2	08-26-2014	Mehin et al.	
	18	8,848,887 B2	09-30-2014	Willman et al.	
	19	8,862,701 B2	10-14-2014	Havriluk, George	
	20	8,885,609 B2	11-11-2014	Nix, John A.	
	21	8,903,051 B2	12-02-2014	Li et al.	
	22	8,903,360 B2	12-02-2014	Celi, Jr. et al.	
	23	8,909,556 B2	12-09-2014	Huxham, Horatio Nelson	
	24	8,938,209 B2	01-20-2015	Crawford et al.	
	25	8,938,534 B2	01-20-2015	Le et al.	
	26	8,948,061 B2	02-03-2015	Sridhar, Sriram	
	27	8,972,612 B2	03-03-2015	Le et al.	
	28	8,982,719 B2	03-17-2015	Seetharaman et al.	
	29	8,995,428 B2	03-31-2015	Haster, Lars-Olof	

Examiner Signature	Date Considered

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2411
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 2 OF 6	Attorney Docket No.	DIGIF.004C1

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	30	9,003,306 B2	04-07-2015	Mehin et al.	
	31	2007/0053382 A1	03-08-2007	Bevan et al.	
	32	2009/0213839 A1	08-27-2009	Davis et al.	
	33	2010/0083364 A1	04-01-2010	Gutierrez, Alvaro Fernández	
	34	2010/0114896 A1	05-06-2010	Clark et al.	
	35	2010/0115018 A1	05-06-2010	Yoon et al.	
	36	2010/0142382 A1	06-10-2010	Jungck et al.	
	37	2010/0220852 A1	09-02-2010	Willman et al.	
	38	2010/0233991 A1	09-16-2010	Crawford et al.	
	39	2010/0278534 A1	11-04-2010	Leiden et al.	
	40	2010/0316195 A1	12-16-2010	Di Serio et al.	
	41	2011/0072095 A1	03-24-2011	Havriluk, George	
	42	2011/0167164 A1	07-07-2011	Gutierrez, Alvaro Fernández	
	43	2011/0208859 A1	08-25-2011	Gutierrez, Alvaro Fernández	
	44	2011/0235543 A1	09-29-2011	Seetharaman et al.	
	45	2011/0273526 A1	11-10-2011	Mehin et al.	
	46	2011/0276903 A1	11-10-2011	Mehin et al.	
	47	2011/0276904 A1	11-10-2011	Mehin et al.	
	48	2011/0292929 A1	12-01-2011	Haster, Lars-Olof	
	49	2012/0089717 A1	04-12-2012	Chen, Yanheng	
	50	2012/0096145 A1	04-19-2012	Le et al.	
	51	2012/0155333 A1	06-21-2012	Yoon et al.	
	52	2012/0195236 A1	08-02-2012	Knight, Eric	
	53	2012/0259975 A1	10-11-2012	Le et al.	
	54	2012/0270554 A1	10-25-2012	Hellwig et al.	
	55	2013/0039226 A1	02-14-2013	Sridhar, Sriram	
	56	2013/0097308 A1	04-18-2013	Le et al.	
	57	2013/0128879 A1	05-23-2013	Kyle, Andre B.	
	58	2013/0148549 A1	06-13-2013	Crawford et al.	

Examiner Signature	Date Considered
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

INFORMATION DISCLOSURE STATEMENT BY APPLICANT		
	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2411
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 3 OF 6	Attorney Docket No.	DIGIF.004C1

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	59	2013/0173534 A1	07-04-2013	Nelakonda et al.	
	60	2013/0229950 A1	09-05-2013	Björsell et al.	
	61	2013/0287006 A1	10-31-2013	Nix, John A.	
	62	2013/0310002 A1	11-21-2013	Celi, Jr. et al.	
	63	2013/0318166 A1	11-28-2013	Jungck et al.	
	64	2013/0329722 A1	12-12-2013	Perrault et al.	
	65	2013/0329864 A1	12-12-2013	Björsell et al.	
	66	2014/0010119 A1	01-09-2014	Björsell et al.	
	67	2014/0016764 A1	01-16-2014	Björsell et al.	
	68	2014/0153477 A1	06-05-2014	Huttunen et al.	
	69	2014/0215642 A1	07-31-2014	Huxham, Horatio Nelson	
	70	2014/0307858 A1	10-16-2014	Li et al.	
	71	2014/0321333 A1	10-30-2014	Björsell et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	72	BR PI 0718312-7 A2	11-26-2013	Digifonica International Ltd	*Corresponding International Publication No. WO 2008-052340 A1 previously disclosed*	Abstract
	73	BR PI 0719682-2 A2	01-14-2014	Digifonica International Ltd	*Corresponding International Publication No. WO 2008/064481 A1 previously disclosed*	Abstract
	74	CA 2,598,200 A1	02-21-2008	Connexon Telecom Inc.		
	75	CA 2,668,025 A1	05-08-2008	Digifonica International Ltd	*Corresponding International Publication No. WO 2008-052340 A1; previously disclosed*	Abstract
	76	CA 2,670,510 A1	06-05-2008	Digifonica International Ltd	*Corresponding International Publication No. WO 2008-064481 A1; previously disclosed*	Abstract

Examiner Signature	Date Considered

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2411
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 4 OF 6	Attorney Docket No.	DIGIF.004C1

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	77	CA 2,681,984 A1	10-02-2008	Digifonica International Ltd	*Corresponding International Publication No. WO 2008/116296 A1; previously disclosed*	Abstract
	78	CA 2,732,148 A1	02-04-2010	Digifonica International Ltd	*Corresponding International Publication No. WO 2010/012090 A2; previously disclosed*	Abstract
	79	CA 2,812,174 A1	03-24-2011	Digifonica International Ltd	*Corresponding International Publication No. WO 2011/032256 A1; previously disclosed*	Abstract
	80	CN 101584150 A	11-18-2009	Digifonica International Ltd	*Corresponding International Publication No. WO 2008/064481 A1 previously disclosed*	Abstract
	81	CN 101584166 A	11-18-2009	Digifonica International Ltd	*Corresponding International Publication No. WO 2008-052340 A1 previously disclosed*	Abstract
	82	CN 101605342 A	12-16-2009	ZTE Corp [CN]		Abstract
	83	CN 102457494 A	05-16-2012	China Mobile Comm Corp Sichuan Co Ltd		Abstract
	84	CN 102572123 A	07-11-2012	Chengdu 30RTOM Mobile Comm Co Ltd		Abstract
	85	CN 101605342 B	12-19-2012	ZTE Corp [CN]	*Corresponding Chinese Publication No. CN 101605342 A shown above*	Abstract
	86	CN 102457494 B	10-01-2014	China Mobile Comm Corp Sichuan Co Ltd	*Corresponding Chinese Publication No. CN 102457494 A shown above*	Abstract
	87	EP 2 084 868 A0	08-05-2009	Digifonica International Ltd	*Corresponding International Publication No. WO 2008-052340 A1 previously disclosed*	Abstract
	88	EP 2 227 048 A1	09-08-2010	France Telecom [FR]		Abstract

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.*	

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2411
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 5 OF 6	Attorney Docket No.	DIGIF.004C1

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	89	EP 2 311 292 A0	04-20-2011	Digifonica International Ltd	*Corresponding International Publication No. WO 2010/012090 A2 previously disclosed*	Abstract
	90	EP 2 478 678 A0	07-25-2012	Digifonica International Ltd	*Corresponding International Publication No. WO 2011/032256 A1 previously disclosed*	Abstract
	91	IN 24/2009	06-12-2009	Digifonica International Ltd	*Corresponding International Publication No. WO 2008-052340 A1 previously disclosed*	
	92	IN 29/2009	07-17-2009	Digifonica International Ltd	*Corresponding International Publication No. WO 2008/064481 A1 previously disclosed*	
	93	KR 10-2009-0086428 (A)	08-12-2009	Digifonica International Ltd	*Corresponding International Publication No. WO 2008-052340 A1 previously disclosed*	Abstract
	94	KR 10-2009-0095621 (A)	09-09-2009	Digifonica International Ltd	*Corresponding International Publication No. WO 2008-064481 A1 previously disclosed*	Abstract
	95	MX 2009005751 A	08-26-2009	Digifonica International Ltd	*Corresponding International Publication No. WO 2008-064481 A1 previously disclosed*	Abstract
	96	MX 2009004811 A	08-28-2009	Digifonica International Ltd	*Corresponding International Publication No. WO 2008-052340 previously disclosed*	Abstract
	97	SG151991	06-29-2009	Digifonica International Ltd	*Corresponding International Publication No. WO 2008-052340 A1 previously disclosed*	✓
	98	SG152752	06-29-2009	Digifonica International Ltd	*Corresponding International Publication No. WO 2008/064481 A1 previously disclosed*	✓

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2411
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 6 OF 6	Attorney Docket No.	DIGIF.004C1

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	99	SG155474	10-29-2009	Digifonica International Ltd	*Corresponding International Publication No. WO 2008/116296 A1 previously disclosed*	Abstract
	100	WO 2013/013189 A2	01-24-2013	VISA Int Service ASS [US]		
	101	W00200902627 (Indonesia)	09-17-2009	Digifonica International Ltd	*Corresponding International Publication No. WO 2008/116296 A1 previously disclosed*	Abstract Only

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	102	Chinese Office Action dated March 24, 2011 for Chinese Patent Application No. CN 200780049791.5	✓
	103	Chinese Office Action dated June 23, 2011 for Chinese Patent Application No. CN 200780049136.X.	✓
	104	Indonesian Examination Report dated July 5, 2012 for Indonesian Patent Application No. W-00200901414.	✓
	105	Indonesian Examination Report dated February 8, 2013 for Indonesian Patent Application No. W-00200901165.	✓
	106	Mexican Exam Report dated July 11, 2011 for Mexican Patent Application No. MX/a/2009/004811.	✓
	107	Mexican Notice of Allowance dated September 2, 2011 for Mexican Patent Application No. MX/a/2009/005751.	✓
	108	Canadian Office Action dated January 27, 2015 for Canadian Patent Application No. CA 2,681,984.	

21097652
070915

Examiner Signature	Date Considered

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

Electronic Acknowledgement Receipt

EFS ID:	22905020
Application Number:	14035806
International Application Number:	
Confirmation Number:	5562
Title of Invention:	MOBILE GATEWAY
First Named Inventor/Applicant Name:	Johan Emil Viktor Björsell
Customer Number:	20995
Filer:	John M Carson/Norman Green
Filer Authorized By:	John M Carson
Attorney Docket Number:	DIGIF.004C1
Receipt Date:	13-JUL-2015
Filing Date:	24-SEP-2013
Time Stamp:	19:57:53
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		IDS_DIGIF_004C1_07_13_2015.pdf	475371 68c4ccde6aee54b93a6062872cb3c84672074271	yes	8

T-Mobile Exhibit 1002

	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Transmittal Letter		1	2	
	Information Disclosure Statement (IDS) Form (SB08)		3	8	
Warnings:					
Information:					
2	Foreign Reference	Ref72_BPRI0728312.pdf	10587766 2ddf834ffb30db2f0831013fedd92133d9480439	no	132
Warnings:					
Information:					
3	Foreign Reference	Ref73_BRPI0719682.pdf	8563315 85dae598b9976f5f3d7ce88a0b8e09d70cecce96	no	107
Warnings:					
Information:					
4	Foreign Reference	Ref74_CA2598200.pdf	1360191 af57de8cdba6de54ddb7f4b10e48dd939d78fae3	no	20
Warnings:					
Information:					
5	Foreign Reference	Ref75_CA2668025.pdf	9898083 f868c6dc663e9f2bcb9c7554ce8df4355daca2aa	no	136
Warnings:					
Information:					
6	Foreign Reference	Ref76_CA2670510.pdf	7748841 6a738a50ba254d9f86b4d744263ac9c1330a35cc	no	103
Warnings:					
Information:					
7	Foreign Reference	Ref77_CA2681984.pdf	6873015 9e9c480b5b7628f7303b82deae244cbde23ab51b	no	91
Warnings:					
Information:					
8	Foreign Reference	Ref78_CA2732148.pdf	8658833 464ae16e17c772b934273465ec26946410005d66	no	111
Warnings:					
Information:					

9	Foreign Reference	Ref79_CA2812174.pdf	3824762 eb99ec138367105475eadd40bc9d52bcad6f49bc	no	51
Warnings:					
Information:					
10	Foreign Reference	Ref80_CN101584150A.pdf	6887355 aebe01e38861a0549c9dea6b74c10647aa82e47a	no	75
Warnings:					
Information:					
11	Foreign Reference	Ref81_CN101584166A.pdf	9197185 7ecc8f6c749df448f40a7b84f47e42bf1e71571f	no	98
Warnings:					
Information:					
12	Foreign Reference	Ref82_CN101605342A.pdf	2450739 61c2e4fa7c8ed80ac740cb0cb5f112f68c1bffd2	no	29
Warnings:					
Information:					
13	Foreign Reference	Ref83_CN102457494A.pdf	984166 c01704bace68d7d2eb27c3b3051ee63b41c05d9f	no	12
Warnings:					
Information:					
14	Foreign Reference	Ref84_CN102572123A.pdf	679509 4d8ea199801314f18f6973942c385b4e83fe9212	no	7
Warnings:					
Information:					
15	Foreign Reference	Ref85_CN101605342B.pdf	94467 1becc1d77fae73b18f836015547f4d53de1bb5eb	no	1
Warnings:					
Information:					
16	Foreign Reference	Ref86_CN102457494B.pdf	77678 86d9c570f7bf9dd0df777d6c2eec724226da44d4	no	1
Warnings:					
Information:					
17	Foreign Reference	Ref87_EP2084868A0.pdf	195322 de4022aec73dd6ca1c5cebf3b4ceb8baa5d02e4e	no	3
Warnings:					
Information:					

18	Foreign Reference	Ref88_EP2227048A1.pdf	1516205 ac7d9f3cd437650a7c12b6fc8cd251a75d6bbccd	no	16
Warnings:					
Information:					
19	Foreign Reference	Ref89_EP2311292A0.pdf	7874320 f79ff2726a36084601dd7440bf5f3002bc367881	no	101
Warnings:					
Information:					
20	Foreign Reference	Ref90_EP2478678A0.pdf	3797263 57c1da083e7e6c591179112 3969e53f0ab5e7f27	no	51
Warnings:					
Information:					
21	Foreign Reference	Ref91_IN_24_2009.pdf	1103891 40d8a0992d759c4f2569bd987a6c9cce499c518d	no	17
Warnings:					
Information:					
22	Foreign Reference	Ref92_IN_1227MUMNP2009A.pdf	1939525 f8775ab91d9328df3641585646d89fc6de8b61e0	no	31
Warnings:					
Information:					
23	Foreign Reference	Ref93_KR1020090086428.pdf	219273 2cbeea4e099b007bc07a22947ab1ce94970d4b5d	no	3
Warnings:					
Information:					
24	Foreign Reference	Ref94_KR1020090095621.pdf	4476378 1f4d982b224d76afd52f7110b061421df103da36	no	55
Warnings:					
Information:					
25	Foreign Reference	Ref95_MX2009005751.pdf	11506464 0df7ccea1f7ac540216ba2b4c23bb65b7488c1b7	no	149
Warnings:					
Information:					
26	Foreign Reference	Ref96_MX2009004811.pdf	12380320 9849c92f9993a505d1036b7f72b1eb0530242f4b	no	192
Warnings:					
Information:					

27	Foreign Reference	Ref97_SG151991_Full_Trans.pdf	12232700 c960041e75c6f056db7b9624dbae052d2e5f9580	no	138
Warnings:					
Information:					
28	Foreign Reference	Ref98_SG152752_Full_Trans.pdf	9304036 c29ff052a03261eb8661b97b03063bf2b140e243	no	101
Warnings:					
Information:					
29	Foreign Reference	Ref99_SG155474_Abst.pdf	851694 cb9b542eb3ba64ab703aab6535b2d0010c9c9969	no	69
Warnings:					
Information:					
30	Foreign Reference	Ref101_W00200902627.pdf	324443 00aa4f6a017baab01c1c0a3c3344b968c9740947	no	3
Warnings:					
Information:					
31	Foreign Reference	Ref102_CN_First_OA_CN200780049791_5_03_24_2011.pdf	1133474 b480ace607a90e9d8ea8ea1d3a70734c80a78d65	no	11
Warnings:					
Information:					
32	Non Patent Literature	Ref103_CN_First_OA_CN200780049136_X_06_23_2011.pdf	922066 c2267b042a38fdc97a4e37a3f894bf2f1decff2f	no	8
Warnings:					
Information:					
33	Non Patent Literature	Ref104_IN_Exam_Report_7_5_2012_W-00200901414.pdf	196694 f6cbabf78c1eb03e2e05d38c05fbb7b20d802ff0	no	2
Warnings:					
Information:					
34	Non Patent Literature	Ref105_IN_Exam_Report_2_8_2013_W-00200901165.pdf	100609 ada54ac139d65a31dd4d0e6662fc2aef61a63574	no	2
Warnings:					
Information:					
35	Non Patent Literature	Ref106_MX_OA_MXa2009004811.pdf	417661 7edb8842a712a3dc31bdce6fa353415291c84eca	no	4
Warnings:					
Information:					

36	Non Patent Literature	Ref107_MX_NOA_MXa2009005751.pdf	332934 67c89c7f57e87920f63c8ce00f6f409b9e50dbc2	no	4
Warnings:					
Information:					
37	Non Patent Literature	Ref108_CA_OA_CA2681984.pdf	358492 3428281b43b6b4ee05e9734f16ceef9ab6d83333	no	8
Warnings:					
Information:					
38	Foreign Reference	Ref100_WO2013013189A2.pdf	4852562 bd296b7327505f9d7f10b2bccb4ae63b5cab0b43	no	55
Warnings:					
Information:					
		Total Files Size (in bytes):	154397602		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

<u>New Applications Under 35 U.S.C. 111</u>
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

<u>National Stage of an International Application under 35 U.S.C. 371</u>
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

<u>New International Application Filed with the USPTO as a Receiving Office</u>
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

INFORMATION DISCLOSURE STATEMENT

Inventor	:	Johan Emil Viktor Björsell, et al.
App. No.	:	14/035,806
Filed	:	September 24, 2013
For	:	MOBILE GATEWAY
Examiner	:	Rahman, M. Mostazir
Art Unit	:	2411
Conf. No.	:	5562

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

References and Listing

Pursuant to 37 CFR 1.56, an Information Disclosure Statement listing references is provided herewith. Copies of any listed foreign and non-patent literature references are being submitted.

No Disclaimers

To the extent that anything in the Information Disclosure Statement or the listed references could be construed as a disclaimer of any subject matter supported by the present application, Applicant hereby rescinds and retracts such disclaimer.

Timing of Disclosure

This Information Disclosure Statement is being filed before the receipt of a First Office Action on the merits, and presumably no fee is required. If a First Office Action on the merits

was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 CFR 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 7/13/15

By: _____

John M. Carson
Registration No. 34,303
Attorney of Record
Customer No. 20995
(858) 707-4000

IDS
21097916
070915

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2411
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 1 OF 2	Attorney Docket No.	DIGIF.004C1

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	5,677,955 A1	10-14-1995	Doggett et al.	
	2	5,883,810 A1	03-16-1999	Franklin et al.	
	3	6,173,272 B1	01-09-2001	Thomas et al.	
	4	6,243,689 B1	06-05-2001	Norton, Robert G.	
	5	6,636,833 B1	10-21-2003	Fitcroft et al.	
	6	6,772,188 B1	08-03-2004	Cheng-Sheng et al.	
	7	6,892,184 B1	05-10-2005	Komen et al.	
	8	7,051,072 B2	05-23-2006	Stewart et al.	
	9	7,330,835 B2	02-12-2008	Deggendorf, Theresa M.	
	10	7,426,492 B2	09-16-2008	Bishop et al.	
	11	7,437,665 B2	10-14-2008	Perham, Michael	
	12	7,447,707 B2	11-04-2008	Gaurav et al.	
	13	7,580,886 B1	08-25-2009	Schulz, Larry	
	14	7,593,884 B2	09-22-2009	Rothman et al.	
	15	7,599,944 B2	10-06-2009	Gaurav et al.	
	16	7,644,037 B1	01-05-2010	Ostrovsky, Vladimir	
	17	7,647,500 B2	01-12-2010	Machiraju et al.	
	18	7,676,431 B2	03-09-2010	O'Leary et al.	
	19	7,680,737 B2	03-16-2010	Smith et al.	
	20	7,734,544 B2	06-08-2010	Schleicher, Joerg	
	21	7,765,261 B2	07-27-2010	Kropivny, Alexander	
	22	7,765,266 B2	07-27-2010	Kropivny, Alexander	
	23	7,882,011 B2	02-01-2011	Sandhu et al.	
	24	7,899,742 B2	03-11-2011	Berkert et al.	
	25	8,060,887 B2	11-15-2011	Kropivny, Alexander	
	26	8,161,078 B2	04-17-2012	Gaurav et al.	
	27	8,200,575 B2	06-12-2012	Torres et al.	
	28	8,543,477 B2	09-24-2013	Love et al.	
	29	8,627,211 B2	01-07-2014	Kropivny, Alexander	

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2411
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 2 OF 2	Attorney Docket No.	DIGIF.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	30	8,702,505 B2	04-22-2014	Kropivny, Alexander	
	31	2005/0131813 A1	06-16-2005	Gallagher et al.	
	32	2005/0171898 A1	08-04-2005	Bishop et al.	
	33	2005/0192897 A1	09-01-2005	Rogers et al.	
	34	2005/0192901 A1	09-01-2005	McCoy et al.	
	35	2005/0222952 A1	10-06-2005	Garrett et al.	
	36	2005/0267842 A1	12-01-2005	Weichert et al.	
	37	2006/0006224 A1	01-12-2006	Modi, Vikram	
	38	2006/0036522 A1	02-15-2006	Perham, Michael	
	39	2006/0095320 A1	05-04-2006	Jones, Lisa	
	40	2006/0116892 A1	06-01-2006	Grimes et al.	
	41	2006/0195398 A1	08-31-2006	Dheer et al.	
	42	2007/0016524 A1	01-18-2007	Diveley et al.	
	43	2014/0141884 A1	05-22-2014	Kropivny, Alexander	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	44	Ketchpel *et al.* "U-PAI: A universal payment application interface" *Second USENIX Workshop on Electronic Commerce Proceedings*, 1996-8, pages 1-17.	
	45	Moberg & Drummond, "MIME-Based Secure Peer-to-Peer Business Data Interchange Using HTTP, Applicability Statement 2 (AS2)," *Network Working Group, Request for Comments: 4130, Category: Standards Track*, Copyright © The Internet Society July 2005, pages 1-47.	
	46	Abrazhevich, Dennis. "Electronic Payment Systems: a User-Centered Perspective and Interaction Design," *Thesis under the auspices of the J.F. Schouten School for User-System Interaction Research*, Technische Universiteit Eindhoven, Netherlands, 2004, pages Cover page - page 189.	

21400308
081915

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

Electronic Acknowledgement Receipt

EFS ID:	23269781
Application Number:	14035806
International Application Number:	
Confirmation Number:	5562
Title of Invention:	MOBILE GATEWAY
First Named Inventor/Applicant Name:	Johan Emil Viktor Björsell
Customer Number:	20995
Filer:	John M Carson/Norman Green
Filer Authorized By:	John M Carson
Attorney Docket Number:	DIGIF.004C1
Receipt Date:	20-AUG-2015
Filing Date:	24-SEP-2013
Time Stamp:	18:08:23
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		IDS_DIGIF_004C1_08_20_2015.pdf	227493 19ff28ba55b72d1fa6b857c74376e9460e35fcc7	yes	4

T-Mobile Exhibit 1002

	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Transmittal Letter		1	2	
	Information Disclosure Statement (IDS) Form (SB08)		3	4	
Warnings:					
Information:					
2	Non Patent Literature	Ref44_Ketchpel_U_PAI_1996.pdf	1651947 4b63607eda118f5a951c977ab8f89fc2867fa601	no	17
Warnings:					
Information:					
3	Non Patent Literature	Ref45_Moberg_MIME_Based_July_2005.pdf	3541379 076126a8cc567e0a04610824d48a06aad446f5ca	no	47
Warnings:					
Information:					
4	Non Patent Literature	Ref46_Abrazhevich_Elec_Pay_Sys_2004.pdf	15745553 1297206b1690e9c4399031d7d4378c7554750e34	no	202
Warnings:					
Information:					
		Total Files Size (in bytes):	21166372		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

INFORMATION DISCLOSURE STATEMENT

Inventor	:	Johan Emil Viktor Björsell, et al.
App. No.	:	14/035,806
Filed	:	September 24, 2013
For	:	MOBILE GATEWAY
Examiner	:	Rahman, M. Mostazir
Art Unit	:	2411
Conf. No.	:	5562

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

References and Listing

Pursuant to 37 CFR 1.56, an Information Disclosure Statement listing references is provided herewith. Copies of any listed foreign and non-patent literature references are being submitted.

No Disclaimers

To the extent that anything in the Information Disclosure Statement or the listed references could be construed as a disclaimer of any subject matter supported by the present application, Applicant hereby rescinds and retracts such disclaimer.

Timing of Disclosure

This Information Disclosure Statement is being filed before the receipt of a First Office Action on the merits, and presumably no fee is required. If a First Office Action on the merits

was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 CFR 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 8/26/15

By: _____

John M. Carson
Registration No. 34,303
Attorney of Record
Customer No. 20995
(858) 707-4000

IDS
21400455
081915

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/035,806	09/24/2013	Johan Emil Viktor Björsell	DIGIF.004C1	5562

20995 7590 01/14/2016

KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

EXAMINER	
RAHMAN, M MOSTAZIR	

ART UNIT	PAPER NUMBER
2411	

NOTIFICATION DATE	DELIVERY MODE
01/14/2016	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

jayna.cartee@knobbe.com
efiling@knobbe.com

Office Action Summary	Application No. 14/035,806	Applicant(s) BJÖRSELL ET AL.	
	Examiner M MOSTAZIR RAHMAN	Art Unit 2411	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *09/24/2013*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-129* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-129* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

DETAILED ACTION

Notice of Pre-AIA or AIA Status

The present application is being examined under the pre-AIA first to invent provisions.

Information Disclosure Statement

The information disclosure statements (IDS) submitted on 12/23/2013, 03/19/2014, 04/30/2014, 12/01/2014, 01/07/2015, 04/21/2015, 07/13/2015 and 08/20/2015 have been placed in record and considered by the examiner.

Claim Interpretation

The following is a quotation of 35 U.S.C. 112(f):

> (f) Element in Claim for a Combination. – An element in a claim for a combination may be expressed as a means or step for performing a specified function without the recital of structure, material, or acts in support thereof, and such claim shall be construed to cover the corresponding structure, material, or acts described in the specification and equivalents thereof.

The following is a quotation of pre-AIA 35 U.S.C. 112, sixth paragraph:

> An element in a claim for a combination may be expressed as a means or step for performing a specified function without the recital of structure, material, or acts in support thereof, and such claim shall be construed to cover the corresponding structure, material, or acts described in the specification and equivalents thereof.

Use of the word “means” (or “step for”) in a claim with functional language creates a rebuttable presumption that the claim element is to be treated in accordance with 35 U.S.C. 112(f) (pre-AIA 35 U.S.C. 112, sixth paragraph). The presumption that 35 U.S.C. 112(f) (pre-AIA 35 U.S.C. 112, sixth paragraph) is invoked is rebutted when the function is recited with sufficient structure, material, or acts within the claim itself to entirely perform the recited function.

Absence of the word "means" (or "step for") in a claim creates a rebuttable presumption that the claim element **is not** to be treated in accordance with 35 U.S.C. 112(f) (pre-AIA 35 U.S.C. 112, sixth paragraph). The presumption that 35 U.S.C. 112(f) (pre-AIA 35 U.S.C. 112, sixth paragraph) is not invoked is rebutted when the claim element recites function but fails to recite sufficiently definite structure, material or acts to perform that function.

Claim elements in this application that use the word "means" (or "step for") are presumed to invoke 35 U.S.C. 112(f) except as otherwise indicated in an Office action. Similarly, claim elements that do not use the word "means" (or "step for") are presumed not to invoke 35 U.S.C. 112(f) except as otherwise indicated in an Office action.

Claim limitation

"Means for receiving" in claim 20, 28, 29, 30, 31, 34;

"Means for transmitting" in claim 20, 22, 23, 24,35, 36, 37;

"Means for establishing" in claim 20, 33;

"Means for communicating" in claim 34;

has/have been interpreted under 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph, because it uses/they use a generic placeholder "**means"** coupled with functional language **"for"** without reciting sufficient structure to achieve the function. Furthermore, the generic placeholder is not preceded by a structural modifier.

Since the claim limitation(s) invokes 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph, **claim(s) 20-37,77-102** has/have been interpreted to cover the corresponding structure described in the specification that achieves the claimed function, and equivalents thereof.

A review of the specification shows that the following appears to be the corresponding structure described in the specification for the 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph limitation:

"Means for receiving" ->"fig. 2: an input/output (I/O) port 56";
"Means for transmitting" ->"fig. 2: an input/output (I/O) port 56";
"Means for establishing" ->"fig. 2: telephone network interface 72, 70";
"Means for communicating" ->"fig. 2: telephone network interface 72, 70";

If applicant wishes to provide further explanation or dispute the examiner's interpretation of the corresponding structure, applicant must identify the corresponding structure with reference to the specification by page and line number, and to the drawing, if any, by reference characters in response to this Office action.

If applicant does **not** intend to have the claim limitation(s) treated under 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112 , sixth paragraph, applicant may amend the claim(s) so that it/they will clearly not invoke 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph, or present a sufficient showing that the claim recites/recite sufficient

structure, material, or acts for performing the claimed function to preclude application of 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph.

For more information, see MPEP § 2173 *et seq.* and *Supplementary Examination Guidelines for Determining Compliance With 35 U.S.C. 112 and for Treatment of Related Issues in Patent Applications*, 76 FR 7162, 7167 (Feb. 9, 2011).

Claim Rejections - 35 USC § 112

The following is a quotation of 35 U.S.C. 112(b):
(b) CONCLUSION.—The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the inventor or a joint inventor regards as the invention.

The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph:
The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 20-37, 77-102 are rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor, or for pre-AIA the applicant regards as the invention.

Claim element “means for” is a limitation that invokes 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph. However, the written description fails to disclose the corresponding structure, material, or acts for the claimed function.

Applicant may:

(a) Amend the claim so that the claim limitation will no longer be interpreted as a limitation under 35 U.S.C. 112(f) or pre-AIA 35 U.S.C. 112, sixth paragraph; or

(b) Amend the written description of the specification such that it expressly recites what structure, material, or acts perform the claimed function, without introducing any new matter (35 U.S.C. 132(a)).

If applicant is of the opinion that the written description of the specification already implicitly or inherently discloses the corresponding structure, material, or acts so that one of ordinary skill in the art would recognize what structure, material, or acts perform the claimed function applicant should clarify the record by either:

(a) Amending the written description of the specification such that it expressly recites the corresponding structure, material, or acts for performing the claimed function and clearly links or associates the structure, material, or acts to the claimed function, without introducing any new matter (35 U.S.C. 132(a)); or

(b) Stating on the record what the corresponding structure, material, or acts, which are implicitly or inherently set forth in the written description of the specification, perform the claimed function. For more information, see 37 CFR 1.75(d) and MPEP §§ 608.01(o) and 2181.

Claim Rejections - 35 USC § 103

The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been

obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-129 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over **Albina** et al. (US **20080056235** A1; hereinafter as "**Albina**") in view of **Mia** et al. (US **20080160953** A1; hereinafter as "**Mia**").

Albina discloses "Cellular-to-VoIP call establishment systems, methods, devices, and computer software" **(Title; see Fig. 1-3).**

Regarding claim 1, **Albina** teaches **a** method **(aforesaid "method" details in fig. 1 where mobile communication device 102 communicate with VoIP destination device 104 using wireless network 116)** of establishing communications between a wireless device **(aforesaid mobile device 102)** and a destination node **(aforesaid VoIP Destination Device 104)** of a communications network **(aforesaid Wireless Service Provider 116; a communication system 100 for enabling a mobile communication device 102 (e.g., a cellular telephone or other wireless device) to initiate and establish communication with a VoIP destination device 104. Communication system 100 provides the communication infrastructure for implementing unique cellular-to-VoIP call establishment processes. The call establishment process is from the cellular or wireless end (mobile communication device 102) to the VoIP end (VoIP destination device 104). In other words, the cellular-to-VoIP call establishment processes enable the user of a cellular or wireless telephone (or**

other mobile communication device) to place a call to a VoIP destination device: [0027]), the method comprising:

receiving from a user of the wireless device a destination node identifier associated with the destination node **(mobile communication device 102 receives contact information to contact VoIP Destination device 104 from a user of mobile communication device 102; Fig. 3: element 302; also fig 7 element 702);**

transmitting an access code request message to an access server the access code request message including the destination node identifier **(see fig. element 304: At block 304, the client application (aforesaid "mobile communication device 102") determines that the "name" represents a VoIP subscriber, and then sends a data message to application server 110. The data message identifies the VoIP destination with whom the user wants to establish a session: [0037]),**

receiving an access code reply message from the access server in response to the access code request message **(mobile communication device 102 receives access code reply message from server; Fig. 3 element 306: the client application receives the TDN and initiates a PSTN call to the TDN: [0038]),** the access code reply message including an access code identifying a communications channel on a gateway **(see Fig. 11: SIP Gateway 1112)** through which communications between the wireless device **(Fig. 1: element 102: Mobile communication Device 102, Element 1102 in Fig. 11)** and the destination node **(Fig. 1: element 104: VoIP Destination Device 104, element 1116 in Fig. 11)** can be conducted **(see fig. 4 element 706, 708: At block 706, module 600 receives a reply message from application server 110,**

which contains a TDN. At block 708, module 600 triggers a PSTN call to the TDN. If the VoIP destination is available, at block 710, the PSTN call may be answered and bridged to a connection with VoIP destination device 104: [0046]; The wireless operator's IP network element routes the response to mobile station 1102 (aforesaid Mobile Communication Device 102 in Fig. 1). The client application (which is installed in Mobile Communication Device 102) retrieves the VoIP network provider E.164 number and places a traditional wireless telephony call to the E.164 number. The voice channel is assigned to mobile station 1102: [0087-[0090]; the access code being distinct from the destination node identifier **(TDN number is different that initial contact number; the media gateway sends a request to application server 110. The media gateway may provide information associated with the TDN to application server 110. Application server 110 receives the TDN, matches it to the corresponding identifier associated with the VoIP destination, and returns the identifier to the media gateway (block 314): [0038]);** and establishing communications between the wireless device and the destination node through the channel identified by the access code **(See Fig. 3: element 316: the media gateway establishes a session between mobile communication device 102 and VoIP destination device 104: [0038] last two lines).**

Albina, when teaching "*transmitting an access code request message to an access server the access code request message including the destination node identifier*", **Albina** appears silent on *"transmitting an access code request message to an access*

server the access code request message including the destination node identifier and a location identifier identifying a geographical location of the wireless device," which however had been known in the art at the time of instant application such as shown by **MIA** in "Emergency wireless location system including a wireless transceiver" **(Title).**

MIA, in the same field of endeavor, discloses: *transmitting an access code request message to an access server the access code request message including the destination node identifier and a location identifier identifying a geographical location of the wireless device* ***(see fig. 5 element 440 where location information of a caller send to server; (abstract); MPC/GMLC server 145 may be connected to an Automatic Location Identifier (ALI) database 150. The location information received at the MPC/GMLC server 145 via data network 135 may be transferred to ALI database 150. ALI database 150 may map the location information received from MPC/GMLC server 145 to an address indexed therein. The address may then be transmitted from ALI database 150 to call terminal 140 where it may be dispatched to the appropriate emergency service providers [0041], [0057]).***

Therefore, it would have been obvious to one of the ordinary skill in the art at the time the invention was made to provide the technique of **Mia** to the system of **MARSICO** in order to provide geolocation techniques locate wireless devices **(Mia, [0007]).** The motivation would be to improve and enhance emergency service based on wireless device **(Mia, [0007]-[0008]).**

Regarding claim 2, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein transmitting comprises transmitting the access code request message to the access server on a non-voice network **(sensing request using mobile data network 106; mobile communication device 102 providing a data message to mobile data network 106, which is delivered to application server 110: [0033]).**

Regarding claim 3, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein transmitting comprises transmitting the access code request message as a Short Messaging Service (SMS) message **(sensing request using mobile data network 106; mobile communication device 102 providing a data message to mobile data network 106, which is delivered to application server 110: [0033]; A. Originating cellular phone 1002 sends a data message using, for example, 1XRTT, WAP, SMS, etc. to an SIP application service (application server 1006): [0058]).**

Regarding claim 4, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein transmitting comprises transmitting the access code request message on a voice network **(fig. 2 where Mobile communication sent request using PSTN 108 network; mobile communication device 102 initiates a voice call (via PSTN 108) to the TDN which terminates at PSTN-to-VoIP gateway 112: [0033]).**

Regarding claim 5, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein transmitting the access code request message on a voice network comprises transmitting the access code request message as a Short Messaging Service (SMS) message **(sensing request using mobile data network 106; mobile communication device 102 providing a data message to mobile data network 106, which is delivered to application server 110: [0033]; A. Originating cellular phone 1002 sends a data message using, for example, 1XRTT, WAP, SMS, etc. to an SIP application service (application server 1006): [0058]).**

Regarding claim 6, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein the location identifier comprises an Internet Protocol (IP) address of the wireless device in a wireless Internet Protocol (IP) network **(The application is configured such that requests arrive at the IP address of internetworking function (IWF) 1208. The user@domain (or realm) passed by mobile station 1202 to identify itself as registered is a domain that the Registrar is authoritative for or which it can proxy:[0104]).**

Regarding claim 7, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein the location identifier comprises an identifier of a wireless voice signal station in wireless communication with the wireless device **(The cellular-to-VoIP call establishment process establishes a voice session from originating cellular**

telephone 1002 to a SIP-based VoIP destination client 1014 using a temporary directory number (TDN: [0057]).

Regarding claim 8, the combination of **Albina and Mia,** specifically**, MIA** teaches, wherein the location identifier comprises a user- configured identifier of a location associated with the wireless device **(VoIP adapter 105 may be automatically located and the location conveyed to the Emergency Services operator: [0024).**

Regarding claim 9, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein receiving the access code reply message comprises receiving the access code reply message from the access server on a non-voice network **(received over data network; mobile data network 106 in fig. 2).**

Regarding claim 10, the combination of **Albina and Mia,** specifically**, MIA** teaches, wherein receiving the access code reply message comprises receiving the access code reply message as a Short Messaging Service (SMS) message **(the location information of telephone 100 may be calculated and delivered to VoIP adaptor 105 either via wireless link 113 that may include a radio link such as GPRS or SMS or via a connection 137 from the GMLC/MPC server 145: [0051]).**

Regarding claim 11, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein receiving comprises receiving the access code reply message on a voice network **(over PSTN network; fig. 2).**

Regarding claim 12, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein receiving the access code reply message on a voice network comprises receiving the access code reply message as a Short Messaging Service (SMS) message **(the location information of telephone 100 may be calculated and delivered to VoIP adaptor 105 either via wireless link 113 that may include a radio link such as GPRS or SMS or via a connection 137 from the GMLC/MPC server 145: [0051]).**

Regarding claim 13, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein receiving the access code reply message comprises receiving, in the access code reply message, an access code temporarily associated with the destination node identifier **(see fig. 3: a temporary directory number (TDN); element 306; application server 110 receives the data message from the client application and associates the identifier with a temporary directory number (TDN): [0038]).**

Regarding claim 14, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein receiving the access code reply message comprises receiving, in the access code reply message, a telephone number or an Internet Protocol (IP) address **(see fig.**

3: a temporary directory number (TDN); element 306; application server 110 receives the data message from the client application and associates the identifier with a temporary directory number (TDN): [0038]).

Regarding claim 15, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein establishing communications between the wireless device and the destination node comprises engaging a routing controller to route the call on a public switched telephone network (PSTN) or an IP network to the destination node **(fig. 3 : Media gateway element 310; At block 310, the media gateway receives or detects the incoming call from mobile communication device 102. At block 312, the media gateway sends a request to application server 110: [0038]).**

Regarding claim 16, the combination of **Albina and Mia,** specifically**, Albina** teaches, further comprising: receiving at the access server, the access code request message from the wireless device **(see fig. 1: application server 110 received request from mobile communication device 102 in fig. 1: also fig. 3 element 202, 304);** causing the access server to communicate with a routing controller to obtain from the routing controller the access code **(see fig. 3: element 310 where application server communicate with a media gateway),** wherein the access code identifies a communications channel associated with the location identifier **(A. Mobile station 1202 registers with registrar /location server 1210 through PDSN/SGSN (e.g., PDSN 1204). This occurs on application start and reoccurs every "Expires" (see c.**

below) seconds: [0105]) and wherein the access code is useable by the wireless device in a subsequent communication to cause the routing controller to establish a call to the destination node using the communications channel **(A. Mobile station 1202 registers with registrar /location server 1210 through PDSN/SGSN (e.g., PDSN 1204). This occurs on application start and reoccurs every "Expires" (see c. below) seconds: [0105]);** and

causing the access server to transmit the access code reply message to the wireless device **(The partner network media gateway returns the ISUP Answer message (ANM) to the originating MSC. [0162] Y. MSC 1206 brings mobile station 1202 up on voice channel. : [0161]).**

Regarding claim 17, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein transmitting the access code reply message comprises transmitting the access code reply message as a Short Messaging Service (SMS) message **(sensing request using mobile data network 106; mobile communication device 102 providing a data message to mobile data network 106, which is delivered to application server 110: [0033]; A. Originating cellular phone 1002 sends a data message using, for example, 1XRTT, WAP, SMS, etc. to an SIP application service (application server 1006): [0058]).**

Regarding claim 18, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein transmitting the access code reply message comprises transmitting the access

code reply message on a voice network **(fig. 2 where Mobile communication sent request using PSTN 108 network; mobile communication device 102 initiates a voice call (via PSTN 108) to the TDN which terminates at PSTN-to-VoIP gateway 112: [0033]).**

Regarding claim 19, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein transmitting the access code reply message on a voice network comprises transmitting the access code request message as a Short Messaging Service (SMS) message **(sensing request using mobile data network 106; mobile communication device 102 providing a data message to mobile data network 106, which is delivered to application server 110: [0033]; A. Originating cellular phone 1002 sends a data message using, for example, 1XRTT, WAP, SMS, etc. to an SIP application service (application server 1006): [0058]).**

Regarding claim 20, **Albina** teaches **a** wireless apparatus **(aforesaid "wireless apparatus" detail in fig. 1 where mobile communication device 102 (aforesaid "wireless apparatus") communication with VoIP destination device 104; see Fig. 6: mobile communication device 102; (aforesaid Wireless Service Provider 116; a communication system 100 for enabling a mobile communication device 102 (e.g., a cellular telephone or other wireless device) to initiate and establish communication with a VoIP destination device 104. Communication system 100 provides the communication infrastructure for implementing unique cellular-to-**

VoIP call establishment processes. The call establishment process is from the cellular or wireless end (mobile communication device 102) to the VoIP end (VoIP destination device 104). In other words, the cellular-to-VoIP call establishment processes enable the user of a cellular or wireless telephone (or other mobile communication device) to place a call to a VoIP destination device: [0027])) comprising: means for receiving from a user of the wireless apparatus a destination node identifier associated with a destination node with which the user wishes to communicate **(mobile communication device 102 receives contact information to contact VoIP Destination device 104 from a user of mobile communication device 102; Fig. 3: element 302; also fig 7 element 702);**

means for transmitting an access code request message to an access server, the access code request message including the destination node identifier **(see fig. element 304: At block 304, the client application (aforesaid "mobile communication device 102") determines that the "name" represents a VoIP subscriber, and then sends a data message to application server 110. The data message identifies the VoIP destination with whom the user wants to establish a session: [0037]),** and means for receiving an access code reply message from the access server in response to the access code request message **(mobile communication device 102 receives access code reply message from server; Fig. 3 element 306: the client application receives the TDN and initiates a PSTN call to the TDN: [0038]),**

the access code reply message including an access code identifying a communications channel on a gateway **(see Fig. 11: SIP Gateway 1112)** through which communications between the wireless apparatus **(Fig. 1: element 102: Mobile communication Device 102, Element 1102 in Fig. 11)** and the destination node **(Fig. 1: element 104: VoIP Destination Device 104, element 1116 in Fig. 11)** can be conducted **(see fig. 4 element 706, 708: At block 706, module 600 receives a reply message from application server 110, which contains a TDN. At block 708, module 600 triggers a PSTN call to the TDN. If the VoIP destination is available, at block 710, the PSTN call may be answered and bridged to a connection with VoIP destination device 104: [0046]; The wireless operator's IP network element routes the response to mobile station 1102 (aforesaid Mobile Communication Device 102 in Fig. 1). The client application (which is installed in Mobile Communication Device 102) retrieves the VoIP network provider E.164 number and places a traditional wireless telephony call to the E.164 number. The voice channel is assigned to mobile station 1102: [0087-[0090],**

the access code being distinct from the destination node identifier**(TDN number is different that initial contact number; the media gateway sends a request to application server 110. The media gateway may provide information associated with the TDN to application server 110. Application server 110 receives the TDN, matches it to the corresponding identifier associated with the VoIP destination, and returns the identifier to the media gateway (block 314): [0038])**; and

means for establishing communications between the wireless device and the destination node through the communications channel identified by the access code **(See Fig. 3: element 316: the media gateway establishes a session between mobile communication device 102 and VoIP destination device 104: [0038] last two lines).**

Albina, when teaching "*transmitting an access code request message to an access server the access code request message including the destination node identifier*", **Albina** appears silent on *"transmitting an access code request message to an access server the access code request message including the destination node identifier and a location identifier identifying a geographical location of the wireless device,"* which however had been known in the art at the time of instant application such as shown by **MIA** in "Emergency wireless location system including a wireless transceiver" **(Title).**

MIA, in the same field of endeavor, discloses: *transmitting an access code request message to an access server the access code request message including the destination node identifier and a location identifier identifying a geographical location of the wireless device* ***(see fig. 5 element 440 where location information of a caller send to server; (abstract); MPC/GMLC server 145 may be connected to an Automatic Location Identifier (ALI) database 150. The location information received at the MPC/GMLC server 145 via data network 135 may be transferred to ALI database 150. ALI database 150 may map the location information received***

from MPC/GMLC server 145 to an address indexed therein. The address may then be transmitted from ALI database 150 to call terminal 140 where it may be dispatched to the appropriate emergency service providers [0041], [0057]).

Therefore, it would have been obvious to one of the ordinary skill in the art at the time the invention was made to provide the technique of **Mia** to the system of **MARSICO** in order to provide geolocation techniques locate wireless devices **(Mia, [0007]).** The motivation would be to improve and enhance emergency service based on wireless device **(Mia, [0007]-[0008]).**

Regarding claim 21, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein the transmitting means comprises a non- voice network interface for transmitting the access code request message to the access server on a non-voice network **(sensing request using mobile data network 106; mobile communication device 102 providing a data message to mobile data network 106, which is delivered to application server 110: [0033]).**

Regarding claim 22, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein the means for transmitting includes means for transmitting the access code request message as a Short Messaging Service (SMS) message **(sensing request using mobile data network 106; mobile communication device 102 providing a data message to mobile data network 106, which is delivered to application server**

110: [0033]; A. Originating cellular phone 1002 sends a data message using, for example, 1XRTT, WAP, SMS, etc. to an SIP application service (application server 1006): [0058]).

Regarding claim 23, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein the means for transmitting comprises means for transmitting the access code request message on a voice network **(fig. 2 where Mobile communication sent request using PSTN 108 network; mobile communication device 102 initiates a voice call (via PSTN 108) to the TDN which terminates at PSTN-to-VoIP gateway 112: [0033]).**

Regarding claim 24, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein the means for transmitting the access code request message on a voice network comprises means for transmitting the access code request message as a Short Messaging Service (SMS) message **(sensing request using mobile data network 106; mobile communication device 102 providing a data message to mobile data network 106, which is delivered to application server 110: [0033]; A. Originating cellular phone 1002 sends a data message using, for example, 1XRTT, WAP, SMS, etc. to an SIP application service (application server 1006): [0058]).**

Regarding claim 25, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein the location identifier comprises an Internet Protocol (IP) address of the

wireless apparatus in a wireless IP network **(The application is configured such that requests arrive at the IP address of internetworking function (IWF) 1208. The user@domain (or realm) passed by mobile station 1202 to identify itself as registered is a domain that the Registrar is authoritative for or which it can proxy:[0104]).**

Regarding claim 26, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein the location identifier comprises an identifier of a wireless voice signal station in wireless communication with the wireless apparatus **(The cellular-to-VoIP call establishment process establishes a voice session from originating cellular telephone 1002 to a SIP-based VoIP destination client 1014 using a temporary directory number (TDN: [0057]).**

Regarding claim 27, the combination of **Albina and Mia,** specifically**, MIA** teaches, wherein the location identifier comprises a user- configured identifier of a location associated with the wireless apparatus **(VoIP adapter 105 may be automatically located and the location conveyed to the Emergency Services operator: [0024).**

Regarding claim 28, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein the means for receiving an access code reply message comprises a non-voice network interface for receiving the access code reply message on a non-voice network **(received over data network; mobile data network 106 in fig. 2).**

Regarding claim 10, the combination of **Albina and Mia,** specifically**, MIA** teaches, wherein the means for receiving the access code request message comprises means for receiving the access code request message as a Short Messaging Service (SMS) message **(the location information of telephone 100 may be calculated and delivered to VoIP adaptor 105 either via wireless link 113 that may include a radio link such as GPRS or SMS or via a connection 137 from the GMLC/MPC server 145: [0051]).**

Regarding claim 30, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein the means for receiving comprises means for receiving the access code request message on a voice network **(over PSTN network; fig. 2).**

Regarding claim 31, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein the means for receiving the access code request message on a voice network comprises means for receiving the access code request message as a Short Messaging Service (SMS) message **(the location information of telephone 100 may be calculated and delivered to VoIP adaptor 105 either via wireless link 113 that may include a radio link such as GPRS or SMS or via a connection 137 from the GMLC/MPC server 145: [0051]).**

Regarding claim 32, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein the access code includes a telephone number or an IP address **(see fig. 3: a temporary directory number (TDN); element 306; application server 110 receives the data message from the client application and associates the identifier with a temporary directory number (TDN): [0038]).**

Regarding claim 33, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein the means for establishing communications comprises a mobile telephone network interface **(mobile communication device 102 has a wireless interface to communicate with mobile network in fig. 1).**

Regarding claim 34, the combination of **Albina and Mia,** specifically**, Albina** teaches, a routing controller **(gateway has a routing controller);** and
an access server comprising:
means for receiving from the wireless apparatus the access code request message **(see fig. 1: application server 110 received request from mobile communication device 102 in fig. 1: also fig. 3 element 202, 304);**
means for communicating with the routing controller to obtain from the routing controller the access code **(see fig. 3: element 310 where application server communicate with a media gateway)** wherein the access code identifies a communications channel associated with the location identifier **(A. Mobile station 1202 registers with registrar /location server 1210 through PDSN/SGSN (e.g., PDSN 1204). This occurs on**

application start and reoccurs every "Expires" (see c. below) seconds: [0105]) and wherein the access code is useable by the wireless apparatus to cause the routing controller to establish a call to the destination node using the communications channel **(A. Mobile station 1202 registers with registrar /location server 1210 through PDSN/SGSN (e.g., PDSN 1204). This occurs on application start and reoccurs every "Expires" (see c. below) seconds: [0105]);** and means for transmitting the access code reply message including the access code to the wireless apparatus **(The partner network media gateway returns the ISUP Answer message (ANM) to the originating MSC. [0162] Y. MSC 1206 brings mobile station 1202 up on voice channel. : [0161]).**

Regarding claim 35, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein the means for transmitting the access code reply message comprises means for transmitting the access code reply message as a Short Messaging Service (SMS) message **(sensing request using mobile data network 106; mobile communication device 102 providing a data message to mobile data network 106, which is delivered to application server 110: [0033]; A. Originating cellular phone 1002 sends a data message using, for example, 1XRTT, WAP, SMS, etc. to an SIP application service (application server 1006): [0058]).**

Regarding claim 36, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein the means for transmitting the access code reply message comprises means

for transmitting the access code reply message on a voice network **(fig. 2 where Mobile communication sent request using PSTN 108 network; mobile communication device 102 initiates a voice call (via PSTN 108) to the TDN which terminates at PSTN-to-VoIP gateway 112: [0033]).**

Regarding claim 37, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein the means for transmitting the access code reply message on a voice network comprises means for transmitting the access code request message as a Short Messaging Service (SMS) message **(sensing request using mobile data network 106; mobile communication device 102 providing a data message to mobile data network 106, which is delivered to application server 110: [0033]; A. Originating cellular phone 1002 sends a data message using, for example, 1XRTT, WAP, SMS, etc. to an SIP application service (application server 1006): [0058]).**

Regarding claim 38, **Albina** teaches A wireless apparatus **(aforesaid "wireless apparatus" detail in fig. 1 where mobile communication device 102 (aforesaid "wireless apparatus") communication with VoIP destination device 104; see Fig. 6: mobile communication device 102; (aforesaid Wireless Service Provider 116; a communication system 100 for enabling a mobile communication device 102 (e.g., a cellular telephone or other wireless device) to initiate and establish communication with a VoIP destination device 104. Communication system 100 provides the communication infrastructure for implementing unique cellular-to-**

VoIP call establishment processes. The call establishment process is from the cellular or wireless end (mobile communication device 102) to the VoIP end (VoIP destination device 104). In other words, the cellular-to-VoIP call establishment processes enable the user of a cellular or wireless telephone (or other mobile communication device) to place a call to a VoIP destination device: [0027])) comprising:

a processor circuit comprising at least one processor **(see Fig. 6: processor 614);**

a network interface in communication with the processor circuit **(see Fig. 6: wireless transceiver 616 which communicate with processor 614);** and

a non-transitory computer readable medium **(see Fig. 6: memory 618)** having computer executable codes stored thereon for directing the processor circuit to cooperate with the network interface to **(memory instruct processor to communicate with wireless transceiver 616: memory 618 comprises specially-configured logic (i.e., cellular-to-VoIP call establishment module 600) and a list 620 of contacts. Module 600 comprises the logic for implementing the cellular-to-VoIP call establishment process on mobile communication device 102: [0042]):**

receive from a user of the wireless apparatus a destination node identifier associated with a destination node with which the user wishes to communicate **(mobile communication device 102 receives contact information to contact VoIP Destination device 104 from a user of mobile communication device 102; Fig. 3: element 302; also fig 7 element 702);** transmit an access code request message to an access server, the access code request message including the destination node

identifier **(see fig. element 304: At block 304, the client application (aforesaid "mobile communication device 102") determines that the "name" represents a VoIP subscriber, and then sends a data message to application server 110. The data message identifies the VoIP destination with whom the user wants to establish a session: [0037])**;

receive an access code reply message from the access server in response to the access code request message **(mobile communication device 102 receives access code reply message from server; Fig. 3 element 306: the client application receives the TDN and initiates a PSTN call to the TDN: [0038]),**

the access code reply message including an access code identifying a communications channel on a gateway **(see Fig. 11: SIP Gateway 1112)** through which communications between the wireless apparatus **(Fig. 1: element 102: Mobile communication Device 102, Element 1102 in Fig. 11)** and the destination node **(Fig. 1: element 104: VoIP Destination Device 104, element 1116 in Fig. 11)** can be conducted **(see fig. 4 element 706, 708: At block 706, module 600 receives a reply message from application server 110, which contains a TDN. At block 708, module 600 triggers a PSTN call to the TDN. If the VoIP destination is available, at block 710, the PSTN call may be answered and bridged to a connection with VoIP destination device 104: [0046]; The wireless operator's IP network element routes the response to mobile station 1102 (aforesaid Mobile Communication Device 102 in Fig. 1). The client application (which is installed in Mobile Communication Device 102) retrieves the VoIP network provider E.164 number and places a traditional**

wireless telephony call to the E.164 number. The voice channel is assigned to mobile station 1102: [0087-[0090],

the access code being distinct from the destination node identifier**(TDN number is different that initial contact number; the media gateway sends a request to application server 110. The media gateway may provide information associated with the TDN to application server 110. Application server 110 receives the TDN, matches it to the corresponding identifier associated with the VoIP destination, and returns the identifier to the media gateway (block 314): [0038])**; and establish communications between the wireless device and the destination node through the communications channel identified by the access code **(See Fig. 3: element 316: the media gateway establishes a session between mobile communication device 102 and VoIP destination device 104: [0038] last two lines).**

Albina, when teaching "*transmitting an access code request message to an access server the access code request message including the destination node identifier*", **Albina** appears silent on *"transmitting an access code request message to an access server the access code request message including the destination node identifier and a location identifier identifying a geographical location of the wireless device,*" which however had been known in the art at the time of instant application such as shown by **MIA** in "Emergency wireless location system including a wireless transceiver" **(Title).**

MIA, in the same field of endeavor, discloses: *transmitting an access code request message to an access server the access code request message including the destination node identifier and a location identifier identifying a geographical location of the wireless device* ***(see fig. 5 element 440 where location information of a caller send to server; (abstract); MPC/GMLC server 145 may be connected to an Automatic Location Identifier (ALI) database 150. The location information received at the MPC/GMLC server 145 via data network 135 may be transferred to ALI database 150. ALI database 150 may map the location information received from MPC/GMLC server 145 to an address indexed therein. The address may then be transmitted from ALI database 150 to call terminal 140 where it may be dispatched to the appropriate emergency service providers [0041], [0057]).***

Therefore, it would have been obvious to one of the ordinary skill in the art at the time the invention was made to provide the technique of **Mia** to the system of **MARSICO** in order to provide geolocation techniques locate wireless devices **(Mia, [0007]).** The motivation would be to improve and enhance emergency service based on wireless device **(Mia, [0007]-[0008]).**

Regarding claim 39, the claim is interpreted and rejected for the same reason as set forth in **claim 2.**

Regarding claim 40, the claim is interpreted and rejected for the same reason as set forth in **claim 3.**

Regarding claim 41, the claim is interpreted and rejected for the same reason as set forth in **claim 4.**

Regarding claim 42, the claim is interpreted and rejected for the same reason as set forth in **claim 5.**

Regarding claim 43, the claim is interpreted and rejected for the same reason as set forth in **claim 6.**

Regarding claim 44, the claim is interpreted and rejected for the same reason as set forth in **claim 7.**

Regarding claim 45, the claim is interpreted and rejected for the same reason as set forth in **claim 8.**

Regarding claim 46, the claim is interpreted and rejected for the same reason as set forth in **claim 9.**

Regarding claim 47, the claim is interpreted and rejected for the same reason as set forth in **claim 6.**

Regarding claim 48, the combination of **Albina and Mia,** specifically**, MIA** teaches, wherein the network interface comprises a mobile telephone network interface, and wherein the codes for directing the processor circuit to establish communications between the wireless device and the destination node to include codes for directing the processor circuit to cause a call to be initiated using the mobile telephone network interface on a mobile telephone network **(see fig. 1 where mobile communicate device 102 make a call to mobile network 116).**

Regarding claim 49, the combination of **Albina and Mia,** specifically**, Albina** teaches, further comprising: a routing controller **(gateway has a routing controller**; and an access server comprising a processor circuit and a computer readable medium in communication with the processor circuit , the computer readable medium encoded with codes for directing the processor circuit of the access server to: receive the access code request message from the wireless apparatus **(see fig. 1: application server 110 received request from mobile communication device 102 in fig. 1: also fig. 3 element 202, 304);** communicate with the routing controller to obtain from the routing controller the access code wherein the access code identifies a communications channel associated with the location identifier and wherein the access code is useable by the wireless apparatus to cause the routing controller to establish a call to the destination node using the communications channel **A. Mobile station 1202 registers with registrar /location server 1210 through PDSN/SGSN (e.g., PDSN 1204). This occurs on application start and reoccurs every "Expires" (see c. below) seconds: [0105]);** and transmit the access code reply message to the wireless apparatus **(The partner network media gateway returns the ISUP Answer message (ANM) to the originating MSC. [0162] Y. MSC 1206 brings mobile station 1202 up on voice channel. : [0161]).**

Regarding claim 50, **Albina** teaches a non-transitory computer readable medium having stored thereon computer executable codes for directing a processor circuit of a

wireless device to establish communications with a destination node on a network **(aforesaid Wireless Service Provider 116; a communication system 100 for enabling a mobile communication device 102 (e.g., a cellular telephone or other wireless device) to initiate and establish communication with a VoIP destination device 104. Communication system 100 provides the communication infrastructure for implementing unique cellular-to-VoIP call establishment processes. The call establishment process is from the cellular or wireless end (mobile communication device 102) to the VoIP end (VoIP destination device 104). In other words, the cellular-to-VoIP call establishment processes enable the user of a cellular or wireless telephone (or other mobile communication device) to place a call to a VoIP destination device: [0027])**, the codes comprising codes for directing the processor circuit to :

cause the wireless device to receive from a user of the wireless device a destination node identifier associated with the destination node **(mobile communication device 102 receives contact information to contact VoIP Destination device 104 from a user of mobile communication device 102; Fig. 3: element 302; also fig 7 element 702);** cause the wireless device to transmit an access code request message to an access server, the access code request message including the destination node identifier **(see fig. element 304: At block 304, the client application (aforesaid "mobile communication device 102") determines that the "name" represents a VoIP subscriber, and then sends a data message to application server 110. The data message identifies the VoIP destination with whom the user wants to**

establish a session: [0037])*;* cause the wireless device to receive an access code reply message from the access server in response to the access code request message **(mobile communication device 102 receives access code reply message from server; Fig. 3 element 306: the client application receives the TDN and initiates a PSTN call to the TDN: [0038]),**

the access code reply message including an access code identifying a communications channel on a gateway **(see Fig. 11: SIP Gateway 1112)** through which communications between the wireless device **(Fig. 1: element 102: Mobile communication Device 102, Element 1102 in Fig. 11)** and the destination node **(Fig. 1: element 104: VoIP Destination Device 104, element 1116 in Fig. 11)** can be conducted **(see fig. 4 element 706, 708: At block 706, module 600 receives a reply message from application server 110, which contains a TDN. At block 708, module 600 triggers a PSTN call to the TDN. If the VoIP destination is available, at block 710, the PSTN call may be answered and bridged to a connection with VoIP destination device 104: [0046]; The wireless operator's IP network element routes the response to mobile station 1102 (aforesaid Mobile Communication Device 102 in Fig. 1). The client application (which is installed in Mobile Communication Device 102) retrieves the VoIP network provider E.164 number and places a traditional wireless telephony call to the E.164 number. The voice channel is assigned to mobile station 1102: [0087-[0090],**

the access code being distinct from the destination node identifier **(TDN number is different that initial contact number; the media gateway sends a request to**

application server 110. The media gateway may provide information associated with the TDN to application server 110. Application server 110 receives the TDN, matches it to the corresponding identifier associated with the VoIP destination, and returns the identifier to the media gateway (block 314): [0038]);
and cause the wireless device to establish communications between the wireless device and the destination node through the communications channel identified by the access code **(See Fig. 3: element 316: the media gateway establishes a session between mobile communication device 102 and VoIP destination device 104: [0038] last two lines).**

Albina, when teaching "*transmitting an access code request message to an access server the access code request message including the destination node identifier*", **Albina** appears silent on *"transmitting an access code request message to an access server the access code request message including the destination node identifier and a location identifier identifying a geographical location of the wireless device,"* which however had been known in the art at the time of instant application such as shown by **MIA** in "Emergency wireless location system including a wireless transceiver" **(Title).**

MIA, in the same field of endeavor, discloses: *transmitting an access code request message to an access server the access code request message including the destination node identifier and a location identifier identifying a geographical location of the wireless device* ***(see fig. 5 element 440 where location information of a caller***

send to server; (abstract); MPC/GMLC server 145 may be connected to an Automatic Location Identifier (ALI) database 150. The location information received at the MPC/GMLC server 145 via data network 135 may be transferred to ALI database 150. ALI database 150 may map the location information received from MPC/GMLC server 145 to an address indexed therein. The address may then be transmitted from ALI database 150 to call terminal 140 where it may be dispatched to the appropriate emergency service providers [0041], [0057]).

Therefore, it would have been obvious to one of the ordinary skill in the art at the time the invention was made to provide the technique of **Mia** to the system of **MARSICO** in order to provide geolocation techniques locate wireless devices **(Mia, [0007]).** The motivation would be to improve and enhance emergency service based on wireless device **(Mia, [0007]-[0008]).**

Regarding claim 51, **Albina** teaches a method **(aforesaid "method" details in fig. 1 where mobile communication device 102 communicate with VoIP destination device 104 using wireless network 116)** for enabling a wireless device **(aforesaid mobile device 102)** to establish communications with a destination node **(aforesaid VoIP Destination Device 104) (aforesaid Wireless Service Provider 116; a communication system 100 for enabling a mobile communication device 102 (e.g., a cellular telephone or other wireless device) to initiate and establish communication with a VoIP destination device 104. Communication system 100**

provides the communication infrastructure for implementing unique cellular-to-VoIP call establishment processes. The call establishment process is from the cellular or wireless end (mobile communication device 102) to the VoIP end (VoIP destination device 104). In other words, the cellular-to-VoIP call establishment processes enable the user of a cellular or wireless telephone (or other mobile communication device) to place a call to a VoIP destination device: [0027]) , the method comprising:

receiving from the wireless device an access code request message including a destination node identifier associated with the destination node **(mobile communication device 102 receives contact information to contact VoIP Destination device 104 from a user of mobile communication device 102; Fig. 3: element 302; also fig 7 element 702);**

in response to receiving the access code request message, causing a routing controller to produce an access code identifying a communications channel on a gateway **(see Fig. 11: SIP Gateway 1112)** through which communications between the wireless device **(Fig. 1: element 102: Mobile communication Device 102, Element 1102 in Fig. 11)** and the destination node **(Fig. 1: element 104: VoIP Destination Device 104, element 1116 in Fig. 11)** can be conducted **(see fig. 4 element 706, 708: At block 706, module 600 receives a reply message from application server 110, which contains a TDN. At block 708, module 600 triggers a PSTN call to the TDN. If the VoIP destination is available, at block 710, the PSTN call may be answered and bridged to a connection with VoIP destination device 104: [0046]; The wireless**

operator's IP network element routes the response to mobile station 1102 (aforesaid Mobile Communication Device 102 in Fig. 1). The client application (which is installed in Mobile Communication Device 102) retrieves the VoIP network provider E.164 number and places a traditional wireless telephony call to the E.164 number. The voice channel is assigned to mobile station 1102: [0087-[0090];

wherein the access code is produced based on an area code associated with the wireless device and wherein the access code is useable by the wireless device to initiate communications with the destination node through the communications channel **(see fig. 3 element 310, 312, 314: The media gateway may provide information associated with the TDN to application server 110. Application server 110 receives the TDN, matches it to the corresponding identifier associated with the VoIP destination, and returns the identifier to the media gateway (block 314).: [0038]);** and transmitting an access code reply message including the access code to the wireless device **(See Fig. 3: element 316: the media gateway establishes a session between mobile communication device 102 and VoIP destination device 104: [0038] last two lines).**

Albina, when teaching "*transmitting an access code request message to an access server the access code request message including the destination node identifier*", **Albina** appears silent on *"transmitting an access code request message to an access server the access code request message including the destination node identifier and a*

location identifier identifying a geographical location of the wireless device," which however had been known in the art at the time of instant application such as shown by **MIA** in "Emergency wireless location system including a wireless transceiver" **(Title).**

MIA, in the same field of endeavor, discloses: *transmitting an access code request message to an access server the access code request message including the destination node identifier and a location identifier identifying a geographical location of the wireless device* ***(see fig. 5 element 440 where location information of a caller send to server; (abstract); MPC/GMLC server 145 may be connected to an Automatic Location Identifier (ALI) database 150. The location information received at the MPC/GMLC server 145 via data network 135 may be transferred to ALI database 150. ALI database 150 may map the location information received from MPC/GMLC server 145 to an address indexed therein. The address may then be transmitted from ALI database 150 to call terminal 140 where it may be dispatched to the appropriate emergency service providers [0041], [0057]).***

Therefore, it would have been obvious to one of the ordinary skill in the art at the time the invention was made to provide the technique of **Mia** to the system of **MARSICO** in order to provide geolocation techniques locate wireless devices **(Mia, [0007]).** The motivation would be to improve and enhance emergency service based on wireless device **(Mia, [0007]-[0008]).**

Regarding claim 52, the claim is interpreted and rejected for the same reason as set forth in **claim 2.**

Regarding claim 53, the claim is interpreted and rejected for the same reason as set forth in **claim 3.**

Regarding claim 54, the claim is interpreted and rejected for the same reason as set forth in **claim 4.**

Regarding claim 55, the claim is interpreted and rejected for the same reason as set forth in **claim 5.**

Regarding claim 56, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein the routing controller is operably configured to route a call between the wireless device and the destination node when the wireless device uses the access code to establish communications between the wireless device and the destination node **(see fig. 2 where PSTN-TO-VoIP Gateway 112 router the call from mobile communication device 102 to VoIP destination device 104: PSTN-to-VoIP gateway 112 detects the incoming call to the TDN and, in response, sends a query to application server 110 requesting the unique identifier associated with the TDN.**

T-Mobile Exhibit 1002

At reference E, application server 110 sends an invite message to VoIP destination device 104: [0033]).

Regarding claim 57, the combination of **Albina and Mia,** specifically**, MIA** teaches, wherein causing the routing controller to produce the access code comprises causing the access code to be selected from a pool of access codes **(see fig. 1 where mobile communicate device 102 make a call to mobile network 116; G. MSC 1104 launches an IAM based on its routing tables to the VoIP network provider softswitch (e.g., IP service provider softswitch 1110): [0091])**.

Regarding claim 58, the combination of **Albina and Mia,** specifically**, MIA** teaches, further comprising determining from the location identifier a local calling area associated with the wireless device and causing the access server to select an access code associated with a calling area matching the local calling area associated with the wireless device **(Multiple individual numbers may be used dependent on the country of operation with police, fire, ambulance, civil defense, and public utilities known as common examples of these alternate emergency services numbers: [0013]).**

Regarding claim 59, the combination of **Albina and Mia,** specifically**, MIA** teaches, further comprising accessing a location field of a dialing profile associated with the wireless device when a local calling area cannot be determined from the location identifier and determining a local calling area associated with the wireless device from

the contents of the location field and selecting an access code associated with a calling area matching the local calling area associated with the wireless device **(local call: [0024]).**

Regarding claim 60, the claim is interpreted and rejected for the same reason as set forth in **claim 6.**

Regarding claim 61, the claim is interpreted and rejected for the same reason as set forth in **claim 7.**

Regarding claim 62, the claim is interpreted and rejected for the same reason as set forth in **claim 8.**

Regarding claim 63, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein at least one of the access codes in the pool of access codes identifies an IP network address as a possible communications channel through which the communications can be conducted **(see fig. 1 where mobile communicate device 102 make a call to mobile network 116; G. MSC 1104 launches an IAM based on its routing tables to the VoIP network provider softswitch (e.g., IP service provider softswitch 1110): [0091])**.

Regarding claim 64, the combination of **Albina and Mia,** specifically**, Albina** teaches, further comprising enabling communications between the wireless device and the destination node to be established through an IP network in response to a call received at the IP network address from the wireless device using the access code identifying the IP network address **(Mobile Data network 116).**

Regarding claim 65, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein at least one of the access codes identifies a telephone number as a possible communications channel through which the communications can be conducted **(telephone number; abstract).**

Regarding claim 66, the combination of **Albina and Mia,** specifically**, Albina** teaches, further comprising enabling communications between the wireless device and the destination node to be established through a public switched telephone network (PSTN) in response to a call received at the telephone number from the wireless device using the access code identifying the telephone number **(see Fig. 2: PSTN network 108).**

Regarding claim 67, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein the access code request message includes a caller identifier and wherein the method further comprises associating the caller identifier included in the access code request message with the access code produced by the routing controller **(identifying a temporary directory number (TDN): [abstract]).**

Regarding claim 68, the combination of **Albina and Mia,** specifically**, Albina** teaches, further comprising enabling the routing controller to facilitate communications in response to use of the access code by the wireless device only if the caller identifier associated with the access code used by the wireless device to establish communications with the destination node identifies the wireless device **(see fig. 4: SEND TDN to the Mobile phone: application server 110 sends the TDN to mobile communication device 102: [0039]).**

Regarding claim 69, the combination of **Albina and Mia,** specifically**, Albina** teaches, further comprising associating the destination node identifier included in the access code request message with the access code produced by the routing controller **(see fig. 7: element 708: module 600 triggers a PSTN call to the TDN. If the VoIP destination is available, at block 710, the PSTN call may be answered and bridged to a connection with VoIP destination device 104: [0046]).**

Regarding claim 70, the combination of **Albina and Mia,** specifically**, Albina** teaches, wherein the associating the caller identifier and the destination node identifier with the selected access code occurs only when: a) the access code is not already associated with a destination node identifier; or b) the access code is already associated with another destination node identifier, and a timeout value associated with the another destination node identifier has expired **(A business-rule-defined timer may be set**

and the client application (on originating cellular phone 1002) configured to await a call to the TDN. : [0060]).

Regarding claim 71, the combination of **Albina and Mia,** specifically**, Albina** teaches, further comprising causing a timestamp to be associated with the access code, for use in determining when the usability of the access code to initiate a call to the destination node will expire, and causing the timestamp to be included in the access code reply message transmitted to the wireless device **(A business-rule-defined timer may be set and the client application (on originating cellular phone 1002) configured to await a call to the TDN. : [0060]).**

Regarding claim 72, the combination of **Albina and Mia,** specifically**, Albina** teaches, further comprising causing communications to be permitted between the wireless device and the destination node when the wireless device seeks to establish a call to the destination node using the access code transmitted in the access code reply message when the timestamp associated with the access code indicates the usability of the access code has not expired, and causing the communications to be prevented when the timestamp indicates the usability of the access code has expired **(A business-rule-defined timer may be set and the client application (on originating cellular phone 1002) configured to await a call to the TDN. : [0060]).**

Regarding claim 73, the claim is interpreted and rejected for the same reason as set forth in **claim 2.**

Regarding claim 74, the claim is interpreted and rejected for the same reason as set forth in **claim 3.**

Regarding claim 75, the claim is interpreted and rejected for the same reason as set forth in **claim 4.**

Regarding claim 76, the claim is interpreted and rejected for the same reason as set forth in **claim 5.**

Regarding claim 77, **Albina teaches a**n apparatus **(see fig. 2: Application server 110)** for enabling a wireless device **(see fig. mobile communication device 102)** to establish communications with a destination node, the apparatus comprising:

means for receiving from the wireless device an access code request message including a destination node identifier associated with the destination node identifier **(see fig. element 304: At block 304, the client application (aforesaid "mobile communication device 102") determines that the "name" represents a VoIP subscriber, and then sends a data message to application server 110. The data message identifies the VoIP destination with whom the user wants to establish a session: [0037]),**

means for causing a routing controller to produce an access code identifying a communications channel on a gateway **(see Fig. 11: SIP Gateway 1112)** through which communications between the wireless device **(Fig. 1: element 102: Mobile communication Device 102, Element 1102 in Fig. 11)** and the destination node **(Fig. 1: element 104: VoIP Destination Device 104, element 1116 in Fig. 11)** can be conducted **((see fig. 4 element 706, 708: At block 706, module 600 receives a reply message from application server 110, which contains a TDN. At block 708, module 600 triggers a PSTN call to the TDN. If the VoIP destination is available, at block 710, the PSTN call may be answered and bridged to a connection with VoIP destination device 104: [0046]; The wireless operator's IP network element routes the response to mobile station 1102 (aforesaid Mobile Communication Device 102 in Fig. 1). The client application (which is installed in Mobile Communication Device 102) retrieves the VoIP network provider E.164 number and places a traditional wireless telephony call to the E.164 number. The voice channel is assigned to mobile station 1102: [0087-[0090];**

in response to receiving the access code request message, such that the access code server produces the access code based on an area code associated with the wireless device and such that the access code is useable by the wireless device to initiate communications with the destination node through the communications channel **(TDN number is different that initial contact number; the media gateway sends a request to application server 110. The media gateway may provide information associated with the TDN to application server 110. Application server 110**

receives the TDN, matches it to the corresponding identifier associated with the VoIP destination, and returns the identifier to the media gateway (block 314): [0038]); and

means for transmitting an access code reply message including the access code to the wireless device **(See Fig. 3: element 316: the media gateway establishes a session between mobile communication device 102 and VoIP destination device 104: [0038] last two lines).**

Albina, when teaching "*transmitting an access code request message to an access server the access code request message including the destination node identifier*", **Albina** appears silent on *"transmitting an access code request message to an access server the access code request message including the destination node identifier and a location identifier identifying a geographical location of the wireless device,"* which however had been known in the art at the time of instant application such as shown by **MIA** in "Emergency wireless location system including a wireless transceiver" **(Title).**

MIA, in the same field of endeavor, discloses: *transmitting an access code request message to an access server the access code request message including the destination node identifier and a location identifier identifying a geographical location of the wireless device* ***(see fig. 5 element 440 where location information of a caller send to server; (abstract); MPC/GMLC server 145 may be connected to an Automatic Location Identifier (ALI) database 150. The location information***

received at the MPC/GMLC server 145 via data network 135 may be transferred to ALI database 150. ALI database 150 may map the location information received from MPC/GMLC server 145 to an address indexed therein. The address may then be transmitted from ALI database 150 to call terminal 140 where it may be dispatched to the appropriate emergency service providers [0041], [0057]).

Therefore, it would have been obvious to one of the ordinary skill in the art at the time the invention was made to provide the technique of **Mia** to the system of **MARSICO** in order to provide geolocation techniques locate wireless devices **(Mia, [0007]).** The motivation would be to improve and enhance emergency service based on wireless device **(Mia, [0007]-[0008]).**

Regarding claim 74-81, the claim is interpreted and rejected for the same reason as set forth in **claim 2-5** respectively

Regarding claim 82, the combination of **Albina and Mia,** specifically**, MIA** teaches, further comprising the routing controller and wherein routing controller is operably configured to route a call between the wireless device and the destination node **(See Fig. 11: IP Service Provider Soft switch element 1110: [0083]; The voice channel is assigned to mobile station 1102. G. MSC 1104 launches an IAM based on its routing tables to the VoIP network provider soft switch (e.g., IP service provider soft switch 1110). H. the VoIP network provider soft switch has the E.164 number**

associated with SIP application server 1108 and routes the signaling to the EPS for SIP INVITE delivery: [0090]-[0091]).

Regarding claim 83, the combination of **Albina and Mia,** specifically**, MIA** teaches, wherein the routing controller is operably configured to select the access code from a pool of access codes **(see fig. 1 where mobile communicate device 102 make a call to mobile network 116; G. MSC 1104 launches an IAM based on its routing tables to the VoIP network provider softswitch (e.g., IP service provider softswitch 1110): [0091])**.

Regarding claim 84, the claim is interpreted and rejected for the same reason as set forth in **claim 59.**

Regarding claim 85, the combination of **Albina and Mia,** specifically**, MIA** teaches, a dialing profile associated with the wireless device, the dialing profile including a location field **(BTS 115 may include a location component 120 implemented thereon. Location component 120 may include network based location technologies that may provide the location of a wireless transceiver 320 implemented in VoIP adapter 105: [0028]);** and wherein the routing controller is operably configured to determine a local calling area associated with the wireless device from the contents of the location field and to select an access code associated with a calling area matching the local calling area associated with the wireless device, when a local calling area

associated with the wireless device cannot be determined from the location identifier **(sensing request using mobile data network 106; mobile communication device 102 providing a data message to mobile data network 106, which is delivered to application server 110: [0033]; A. Originating cellular phone 1002 sends a data message using, for example, 1XRTT, WAP, SMS, etc. to an SIP application service (application server 1006): [0058]).**

Regarding claim 86-88, the claim is interpreted and rejected for the same reason as set forth in **claim 25-27.**

Regarding claim 89-102, the claim is interpreted and rejected for the same reason as set forth in **claim 63-76.**

Regarding claim 103, **Albina** teaches an apparatus **(see Fig.1: Application Server 110)** for enabling a wireless device **(aforesaid mobile device 102)** to establish communications with a destination node **(aforesaid VoIP Destination Device 104) (aforesaid Wireless Service Provider 116; a communication system 100 for enabling a mobile communication device 102 (e.g., a cellular telephone or other wireless device) to initiate and establish communication with a VoIP destination device 104. Communication system 100 provides the communication infrastructure for implementing unique cellular-to-VoIP call establishment processes. The call establishment process is from the cellular or wireless end**

(mobile communication device 102) to the VoIP end (VoIP destination device 104). In other words, the cellular-to-VoIP call establishment processes enable the user of a cellular or wireless telephone (or other mobile communication device) to place a call to a VoIP destination device: [0027]), the apparatus comprising:

a processor circuit including at least one processor **(Application server must have a processor);** a network interface in communication with the processor circuit **(must have network interface, See ARROW in both direction in Fig. 1 and Fig. 2);** and a non-transitory computer readable medium having stored thereon computer executable codes for directing the at least one processor to:

receive from the wireless device **(mobile communication device 102)** an access code request message including a destination node identifier associated with the destination node **(see fig. element 304: At block 304, the client application (aforesaid "mobile communication device 102") determines that the "name" represents a VoIP subscriber, and then sends a data message to application server 110. The data message identifies the VoIP destination with whom the user wants to establish a session: [0037])**;

cause a routing controller **(see Fig. 11: SIP Gateway 1112)** to produce an access code identifying a communications channel on a gateway through which communications between the wireless device **(Fig. 1: element 102: Mobile communication Device 102, Element 1102 in Fig. 11)** and the destination node **(Fig. 1: element 104: VoIP Destination Device 104, element 1116 in Fig. 11)** can be conducted **(see fig. 4 element 706, 708: At block 706, module 600 receives a reply**

message from application server 110, which contains a TDN. At block 708, module 600 triggers a PSTN call to the TDN. If the VoIP destination is available, at block 710, the PSTN call may be answered and bridged to a connection with VoIP destination device 104: [0046]; The wireless operator's IP network element routes the response to mobile station 1102 (aforesaid Mobile Communication Device 102 in Fig. 1). The client application (which is installed in Mobile Communication Device 102) retrieves the VoIP network provider E.164 number and places a traditional wireless telephony call to the E.164 number. The voice channel is assigned to mobile station 1102: [0087-[0090],

in response to receiving the access code request message, such that the access code server produces the access code based on an area code associated with the wireless device and such that the access code is useable by the wireless device to initiate communications with the destination node through the communications channel **(see fig. 3 element 310, 312, 314: The media gateway may provide information associated with the TDN to application server 110. Application server 110 receives the TDN, matches it to the corresponding identifier associated with the VoIP destination, and returns the identifier to the media gateway (block 314).: [0038]);** and transmit an access code reply message including the access code to the wireless device **(See Fig. 3: element 316: the media gateway establishes a session between mobile communication device 102 and VoIP destination device 104: [0038] last two lines).**

Albina, when teaching "*transmitting an access code request message to an access server the access code request message including the destination node identifier*", **Albina** appears silent on *"transmitting an access code request message to an access server the access code request message including the destination node identifier and a location identifier identifying a geographical location of the wireless device,"* which however had been known in the art at the time of instant application such as shown by **MIA** in "Emergency wireless location system including a wireless transceiver" **(Title).**

MIA, in the same field of endeavor, discloses: *transmitting an access code request message to an access server the access code request message including the destination node identifier and a location identifier identifying a geographical location of the wireless device* ***(see fig. 5 element 440 where location information of a caller send to server; (abstract); MPC/GMLC server 145 may be connected to an Automatic Location Identifier (ALI) database 150. The location information received at the MPC/GMLC server 145 via data network 135 may be transferred to ALI database 150. ALI database 150 may map the location information received from MPC/GMLC server 145 to an address indexed therein. The address may then be transmitted from ALI database 150 to call terminal 140 where it may be dispatched to the appropriate emergency service providers [0041], [0057]).***

Therefore, it would have been obvious to one of the ordinary skill in the art at the time the invention was made to provide the technique of **Mia** to the system of **MARSICO** in

order to provide geolocation techniques locate wireless devices **(Mia, [0007]).** The motivation would be to improve and enhance emergency service based on wireless device **(Mia, [0007]-[0008]).**

Regarding claim 104-116, the claim is interpreted and rejected for the same reason as set forth in **claim 2-10.**

Regarding claim 117-124, the claim is interpreted and rejected for the same reason as set forth in **claim 65-72.**

Regarding claim 125-128, the claim is interpreted and rejected for the same reason as set forth in **claim 2-5.**

Regarding claim 129, the claim is interpreted and rejected for the same reason as set forth in **claim 103.**

Conclusion

Examiner's Note: Examiner has cited particular columns/paragraph and line numbers in the references applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing

responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner.

In the case of amending the Claimed invention, Applicant is respectfully requested to indicate the portion(s) of the specification which dictate(s) the structure relied on for proper interpretation and also to verify and ascertain the metes and bounds of the claimed invention. This will assist in expediting compact prosecution. MPEP 714.02 recites: "Applicant should also specifically point out the support for any amendments made to the disclosure. See MPEP § 2163.06. An amendment which does not comply with the provisions of 37 CFR 1.121(b), (c), (d), and (h) may be held not fully responsive. See MPEP § 714." **Amendments not pointing to specific support in the disclosure may be deemed as not complying with provisions of 37 C.F.R. 1.131(b), (c), (d), and (h) and therefore held not fully responsive. Generic statements such as "Applicants believe no new matter has been introduced" may be deemed insufficient**.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to M MOSTAZIR RAHMAN whose telephone number is (571)272-4717. The examiner can normally be reached on 08:00 to 16:30 PST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Lai can be reached on 571-272-9741. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/M MOSTAZIR RAHMAN/
Examiner, Art Unit 2411

/Andrew Lai/
Supervisory Patent Examiner, Art Unit 2411

Notice of References Cited	Application/Control No. 14/035,806	Applicant(s)/Patent Under Reexamination BJÖRSELL ET AL.	
	Examiner M MOSTAZIR RAHMAN	Art Unit 2411	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-2008/0056235 A1	03-2008	Albina; Troy J.	H04M7/123	370/352
*	B	US-2008/0160953 A1	07-2008	Mia; Rashidus S.	H04M7/0057	455/404.2
	C	US-				
	D	US-				
	E	US-				
	F	US-				
	G	US-				
	H	US-				
	I	US-				
	J	US-				
	K	US-				
	L	US-				
	M	US-				

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 1 OF 3	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	6,937,713 B1	08-30-2005	Kung et al.	
	2	8,111,690 B2	02-07-2012	Hussain et al.	
	3	8,219,115 B1	07-10-2012	Nelissen, Marco	
	4	8,228,837 B2	07-24-2012	Sheriff et al.	
	5	8,243,730 B1	08-14-2012	Wong et al.	
	6	8,275,404 B2	09-25-2012	Berger et al.	
	7	8,364,172 B2	01-29-2013	Guanfeng et al.	
	8	8,410,907 B2	04-02-2013	Twitchell, Jr., Robert W.	
	9	8,417,791 B1	04-09-2013	Peretz et al.	
	10	8,423,791 B1	04-16-2013	Yu et al.	
	11	8,468,196 B1	06-18-2013	Roskind et al.	
	12	8,493,931 B1	07-23-2013	Nix, John A.	
	13	8,532,075 B2	09-10-2013	Rassool et al.	
	14	8,682,919 B1	03-25-2014	Golliher, Geoffrey	
	15	8,713,098 B1	04-29-2014	Adya et al.	
	16	8,749,610 B1	06-10-2014	Gossweiler et al.	
	17	8,767,717 B2	07-01-2014	Siegel et al.	
	18	8,774,721 B2	07-08-2014	Hertel et al.	
	19	8,780,703 B1	07-15-2014	Eidelson et al.	
	20	8,792,374 B1	07-29-2014	Jain et al.	
	21	8,792,905 B1	07-29-2014	Li et al.	
	22	8,805,345 B2	08-12-2014	Ling et al.	
	23	8,810,392 B1	08-19-2014	Teller et al.	
	24	8,837,360 B1	09-16-2014	Mishra et al.	
	25	8,838,539 B1	09-16-2014	Ashcraft et al.	
	26	2001/0027478 A1	10-04-2001	Meier et al.	
	27	2011/0255553 A1	10-20-2011	Bobba et al.	
	28	2011/0261717 A1	10-27-2011	Akuzuwa et al.	

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 2 OF 3	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	29	2013/0223276 A1	08-29-2013	Padgett, Steven	
	30	2013/0237198 A1	09-12-2013	Vashi et al.	
	31	2013/0254301 A1	09-26-2013	Lin et al.	
	32	2013/0272297 A1	10-17-2013	Breen et al.	
	33	2013/0281147 A1	10-24-2013	Denman et al.	
	34	2014/0220944 A1	08-07-2014	Balasubramanian, Sanjeevi	
	35	2014/0244393 A1	08-28-2014	Rimmer et al.	
	36	2014/0247730 A1	09-04-2014	Thota et al.	
	37	2014/0269624 A1	09-18-2014	Khay-Ibbat et al.	
	38	2014/0324969 A1	10-30-2014	Riddle, Guy	
	39	2014/0337962 A1	11-13-2014	Brandstatter, Klaus	
	40	2014/0337961 A1	11-13-2014	Chien et al.	
	41	2014/0349602 A1	11-27-2014	Majumdar et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	42	CA 2 659 007 A1	09-27-2009	Google Inc		Abstract
	43	CA 2 778 905 A1	08-26-2010	Google Inc		Abstract
	44	CN 102137024 A	07-27-2011	Fujian Star Net Comm Co Ltd		Abstract
	45	JP 2011-199384 (A)	10-06-2011	Ricoh Co Ltd		Abstract
	46	WO 01/50693 A1	07-12-2001	WWW.Internet Solutions Limited		
	47	WO 03/027801 A2	04-03-2003	Bell-South Intellectual Property Corporation		
	48	WO 2013/120069 A1	08-15-2013	Connectify		
	49	WO 2014/066155 A2	05-01-2014	Google Inc.		
	50	WO 2014/117599 A1	08-07-2014	Huawei Tech Co Ltd		Abstract
	51	WO 2014-166258 A1	10-16-2014	ZTE Corp		Abstract

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 3 OF 3	Attorney Docket No.	SMARB19.004C1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	52	ETSI TS 122 173 V12.7.0 (2014-10) Digital cellular telecommunications system (Phase 2+); TECHNICAL SPECIFICATION 8.2.2.3- Interoperability with PSTN/ISDN and mobile CS Networks, Contents and Forward, pages 1-9; Sec. 8, pages 14-17.	
	53	Huitema *et al.*, "Architecture for Internet Telephony Service for Residential Customers," Academic Paper for *Bellcore*, March 2, 1999, pages 1-14.	
	54	Stallings, William, "The Session Initiation Protocol," *The Internet Protocol Journal*, Vol. 6, No. 1, March 2003, pages 20-30.	

19659169
010615

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2411
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 1 OF 1	Attorney Docket No.	DIGIF.004C1

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	5,917,899	06-29-1999	Moss et al.	
	2	6,005,870	12-21-1999	Leung et al.	
	3	6,597,783 B1	07-22-2003	Tada et al.	
	4	6,873,599 B1	03-29-2005	Han, Yihwu	
	5	7,010,727 B1	03-07-2006	Stucker, Brian	
	6	2007/0217354 A1	09-20-2007	Buckley, Adrian	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T^1

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T^1

20479964
042015

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T^1 - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2411
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 1 OF 6	Attorney Docket No.	DIGIF.004C1

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	6,327,351 B1	12-04-2001	Walker et al.	
	2	7,203,478 B2	04-10-2007	Benco et al.	
	3	7,958,233 B2	06-07-2011	Gutierrez, Alvaro Fernández	
	4	8,078,164 B2	12-13-2011	Ganesan, Vasudevan	
	5	8,127,005 B2	02-28-2012	Gutierrez, Alvaro Fernández	
	6	8,166,547 B2	04-24-2012	Bevan et al.	
	7	8,190,739 B2	05-29-2012	Gutierrez, Alvaro Fernández	
	8	8,223,927 B2	07-17-2012	Di Serio et al.	
	9	8,300,632 B2	10-30-2012	Davis et al.	
	10	8,315,521 B2	11-20-2012	Leiden et al.	
	11	8,396,445 B2	03-12-2013	Crawford et al.	
	12	8,526,306 B2	09-03-2013	Jungck et al.	
	13	8,599,747 B1	12-03-2013	Saleem et al.	
	14	8,599,837 B2	12-03-2013	Kyle, Andre B.	
	15	8,634,838 B2	01-21-2014	Hellwig et al.	
	16	8,774,378 B2	07-08-2014	Björsell et al.	
	17	8,819,566 B2	08-26-2014	Mehin et al.	
	18	8,848,887 B2	09-30-2014	Willman et al.	
	19	8,862,701 B2	10-14-2014	Havriluk, George	
	20	8,885,609 B2	11-11-2014	Nix, John A.	
	21	8,903,051 B2	12-02-2014	Li et al.	
	22	8,903,360 B2	12-02-2014	Celi, Jr. et al.	
	23	8,909,556 B2	12-09-2014	Huxham, Horatio Nelson	
	24	8,938,209 B2	01-20-2015	Crawford et al.	
	25	8,938,534 B2	01-20-2015	Le et al.	
	26	8,948,061 B2	02-03-2015	Sridhar, Sriram	
	27	8,972,612 B2	03-03-2015	Le et al.	
	28	8,982,719 B2	03-17-2015	Seetharaman et al.	
	29	8,995,428 B2	03-31-2015	Haster, Lars-Olof	

Examiner Signature	11/09/2015	Date Considered	11/09/2015

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2411
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 2 OF 6	Attorney Docket No.	DIGIF.004C1

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	30	9,003,306 B2	04-07-2015	Mehin et al.	
	31	2007/0053382 A1	03-08-2007	Bevan et al.	
	32	2009/0213839 A1	08-27-2009	Davis et al.	
	33	2010/0083364 A1	04-01-2010	Gutierrez, Alvaro Fernández	
	34	2010/0114896 A1	05-06-2010	Clark et al.	
	35	2010/0115018 A1	05-06-2010	Yoon et al.	
	36	2010/0142382 A1	06-10-2010	Jungck et al.	
	37	2010/0220852 A1	09-02-2010	Willman et al.	
	38	2010/0233991 A1	09-16-2010	Crawford et al.	
	39	2010/0278534 A1	11-04-2010	Leiden et al.	
	40	2010/0316195 A1	12-16-2010	Di Serio et al.	
	41	2011/0072095 A1	03-24-2011	Havriluk, George	
	42	2011/0167164 A1	07-07-2011	Gutierrez, Alvaro Fernández	
	43	2011/0208859 A1	08-25-2011	Gutierrez, Alvaro Fernández	
	44	2011/0235543 A1	09-29-2011	Seetharaman et al.	
	45	2011/0273526 A1	11-10-2011	Mehin et al.	
	46	2011/0276903 A1	11-10-2011	Mehin et al.	
	47	2011/0276904 A1	11-10-2011	Mehin et al.	
	48	2011/0292929 A1	12-01-2011	Haster, Lars-Olof	
	49	2012/0089717 A1	04-12-2012	Chen, Yanheng	
	50	2012/0096145 A1	04-19-2012	Le et al.	
	51	2012/0155333 A1	06-21-2012	Yoon et al.	
	52	2012/0195236 A1	08-02-2012	Knight, Eric	
	53	2012/0259975 A1	10-11-2012	Le et al.	
	54	2012/0270554 A1	10-25-2012	Hellwig et al.	
	55	2013/0039226 A1	02-14-2013	Sridhar, Sriram	
	56	2013/0097308 A1	04-18-2013	Le et al.	
	57	2013/0128879 A1	05-23-2013	Kyle, Andre B.	
	58	2013/0148549 A1	06-13-2013	Crawford et al.	

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2411
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 3 OF 6	Attorney Docket No.	DIGIF.004C1

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	59	2013/0173534 A1	07-04-2013	Nelakonda et al.	
	60	2013/0229950 A1	09-05-2013	Björsell et al.	
	61	2013/0287006 A1	10-31-2013	Nix, John A.	
	62	2013/0310002 A1	11-21-2013	Celi, Jr. et al.	
	63	2013/0318166 A1	11-28-2013	Jungck et al.	
	64	2013/0329722 A1	12-12-2013	Perrault et al.	
	65	2013/0329864 A1	12-12-2013	Björsell et al.	
	66	2014/0010119 A1	01-09-2014	Björsell et al.	
	67	2014/0016764 A1	01-16-2014	Björsell et al.	
	68	2014/0153477 A1	06-05-2014	Huttunen et al.	
	69	2014/0215642 A1	07-31-2014	Huxham, Horatio Nelson	
	70	2014/0307858 A1	10-16-2014	Li et al.	
	71	2014/0321333 A1	10-30-2014	Björsell et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	72	BR PI 0718312-7 A2	11-26-2013	Digifonica International Ltd	*Corresponding International Publication No. WO 2008-052340 A1 previously disclosed*	Abstract
	73	BR PI 0719682-2 A2	01-14-2014	Digifonica International Ltd	*Corresponding International Publication No. WO 2008/064481 A1 previously disclosed*	Abstract
	74	CA 2,598,200 A1	02-21-2008	Connexon Telecom Inc.		
	75	CA 2,668,025 A1	05-08-2008	Digifonica International Ltd	*Corresponding International Publication No. WO 2008-052340 A1; previously disclosed*	Abstract
	76	CA 2,670,510 A1	06-05-2008	Digifonica International Ltd	*Corresponding International Publication No. WO 2008-064481 A1; previously disclosed*	Abstract

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2411
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 4 OF 6	Attorney Docket No.	DIGIF.004C1

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	77	CA 2,681,984 A1	10-02-2008	Digifonica International Ltd	*Corresponding International Publication No. WO 2008/116296 A1; previously disclosed*	Abstract
	78	CA 2,732,148 A1	02-04-2010	Digifonica International Ltd	*Corresponding International Publication No. WO 2010/012090 A2; previously disclosed*	Abstract
	79	CA 2,812,174 A1	03-24-2011	Digifonica International Ltd	*Corresponding International Publication No. WO 2011/032256 A1; previously disclosed*	Abstract
	80	CN 101584150 A	11-18-2009	Digifonica International Ltd	*Corresponding International Publication No. WO 2008/064481 A1 previously disclosed*	Abstract
	81	CN 101584166 A	11-18-2009	Digifonica International Ltd	*Corresponding International Publication No. WO 2008-052340 A1 previously disclosed*	Abstract
	82	CN 101605342 A	12-16-2009	ZTE Corp [CN]		Abstract
	83	CN 102457494 A	05-16-2012	China Mobile Comm Corp Sichuan Co Ltd		Abstract
	84	CN 102572123 A	07-11-2012	Chengdu 30RTOM Mobile Comm Co Ltd		Abstract
	85	CN 101605342 B	12-19-2012	ZTE Corp [CN]	*Corresponding Chinese Publication No. CN 101605342 A shown above*	Abstract
	86	CN 102457494 B	10-01-2014	China Mobile Comm Corp Sichuan Co Ltd	*Corresponding Chinese Publication No. CN 102457494 A shown above*	Abstract
	87	EP 2 084 868 A0	08-05-2009	Digifonica International Ltd	*Corresponding International Publication No. WO 2008-052340 A1 previously disclosed*	Abstract
	88	EP 2 227 048 A1	09-08-2010	France Telecom [FR]		Abstract

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2411
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 5 OF 6	Attorney Docket No.	DIGIF.004C1

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	89	EP 2 311 292 A0	04-20-2011	Digifonica International Ltd	*Corresponding International Publication No. WO 2010/012090 A2 previously disclosed*	Abstract
	90	EP 2 478 678 A0	07-25-2012	Digifonica International Ltd	*Corresponding International Publication No. WO 2011/032256 A1 previously disclosed*	Abstract
	91	IN 24/2009	06-12-2009	Digifonica International Ltd	*Corresponding International Publication No. WO 2008-052340 A1 previously disclosed*	
	92	IN 29/2009	07-17-2009	Digifonica International Ltd	*Corresponding International Publication No. WO 2008/064481 A1 previously disclosed*	
	93	KR 10-2009-0086428 (A)	08-12-2009	Digifonica International Ltd	*Corresponding International Publication No. WO 2008-052340 A1 previously disclosed*	Abstract
	94	KR 10-2009-0095621 (A)	09-09-2009	Digifonica International Ltd	*Corresponding International Publication No. WO 2008-064481 A1 previously disclosed*	Abstract
	95	MX 2009005751 A	08-26-2009	Digifonica International Ltd	*Corresponding International Publication No. WO 2008-064481 A1 previously disclosed*	Abstract
	96	MX 2009004811 A	08-28-2009	Digifonica International Ltd	*Corresponding International Publication No. WO 2008-052340 previously disclosed*	Abstract
	97	SG151991	06-29-2009	Digifonica International Ltd	*Corresponding International Publication No. WO 2008-052340 A1 previously disclosed*	✓
	98	SG152752	06-29-2009	Digifonica International Ltd	*Corresponding International Publication No. WO 2008/064481 A1 previously disclosed*	✓

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2411
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 6 OF 6	Attorney Docket No.	DIGIF.004C1

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	99	SG155474	10-29-2009	Digifonica International Ltd	*Corresponding International Publication No. WO 2008/116296 A1 previously disclosed*	Abstract
	100	WO 2013/013189 A2	01-24-2013	VISA Int Service ASS [US]		
	101	W00200902627 (Indonesia)	09-17-2009	Digifonica International Ltd	*Corresponding International Publication No. WO 2008/116296 A1 previously disclosed*	Abstract Only

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	102	Chinese Office Action dated March 24, 2011 for Chinese Patent Application No. CN 200780049791.5	✓
	103	Chinese Office Action dated June 23, 2011 for Chinese Patent Application No. CN 200780049136.X.	✓
	104	Indonesian Examination Report dated July 5, 2012 for Indonesian Patent Application No. W-00200901414.	✓
	105	Indonesian Examination Report dated February 8, 2013 for Indonesian Patent Application No. W-00200901165.	✓
	106	Mexican Exam Report dated July 11, 2011 for Mexican Patent Application No. MX/a/2009/004811.	✓
	107	Mexican Notice of Allowance dated September 2, 2011 for Mexican Patent Application No. MX/a/2009/005751.	✓
	108	Canadian Office Action dated January 27, 2015 for Canadian Patent Application No. CA 2,681,984.	

21097652
070915

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14035806	BJÖRSELL ET AL.
	Examiner	Art Unit
	M MOSTAZIR RAHMAN	2411

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	11/25/2015								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
	8	✓								
	9	✓								
	10	✓								
	11	✓								
	12	✓								
	13	✓								
	14	✓								
	15	✓								
	16	✓								
	17	✓								
	18	✓								
	19	✓								
	20	✓								
	21	✓								
	22	✓								
	23	✓								
	24	✓								
	25	✓								
	26	✓								
	27	✓								
	28	✓								
	29	✓								
	30	✓								
	31	✓								
	32	✓								
	33	✓								
	34	✓								
	35	✓								
	36	✓								

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14035806	BJÖRSELL ET AL.
	Examiner	Art Unit
	M MOSTAZIR RAHMAN	2411

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	11/25/2015								
	37	✓								
	38	✓								
	39	✓								
	40	✓								
	41	✓								
	42	✓								
	43	✓								
	44	✓								
	45	✓								
	46	✓								
	47	✓								
	48	✓								
	49	✓								
	50	✓								
	51	✓								
	52	✓								
	53	✓								
	54	✓								
	55	✓								
	56	✓								
	57	✓								
	58	✓								
	59	✓								
	60	✓								
	61	✓								
	62	✓								
	63	✓								
	64	✓								
	65	✓								
	66	✓								
	67	✓								
	68	✓								
	69	✓								
	70	✓								
	71	✓								
	72	✓								

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14035806	BJÖRSELL ET AL.
	Examiner	Art Unit
	M MOSTAZIR RAHMAN	2411

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	11/25/2015								
	73	✓								
	74	✓								
	75	✓								
	76	✓								
	77	✓								
	78	✓								
	79	✓								
	80	✓								
	81	✓								
	82	✓								
	83	✓								
	84	✓								
	85	✓								
	86	✓								
	87	✓								
	88	✓								
	89	✓								
	90	✓								
	91	✓								
	92	✓								
	93	✓								
	94	✓								
	95	✓								
	96	✓								
	97	✓								
	98	✓								
	99	✓								
	100	✓								
	101	✓								
	102	✓								
	103	✓								
	104	✓								
	105	✓								
	106	✓								
	107	✓								
	108	✓								

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14035806	BJÖRSELL ET AL.
	Examiner	**Art Unit**
	M MOSTAZIR RAHMAN	2411

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	11/25/2015								
	109	✓								
	110	✓								
	111	✓								
	112	✓								
	113	✓								
	114	✓								
	115	✓								
	116	✓								
	117	✓								
	118	✓								
	119	✓								
	120	✓								
	121	✓								
	122	✓								
	123	✓								
	124	✓								
	125	✓								
	126	✓								
	127	✓								
	128	✓								
	129	✓								

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

BIB DATA SHEET

CONFIRMATION NO. 5562

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
14/035,806	09/24/2013 RULE	370	2411	DIGIF.004C1

APPLICANTS

DIGIFONICA (INTERNATIONAL) LIMITED, Vancouver, CANADA;

INVENTORS

Johan Emil Viktor Björsell, Vancouver, CANADA;
Maksym Sobolyev, New Westminster, CANADA;
Pentti Kalevi Huttunen, Vancouver, CANADA;
Emil Malak, Vancouver, CANADA;

**** CONTINUING DATA ***************************

This application is a CON of 13/056,277 01/27/2011 PAT 8630234
which is a 371 of PCT/CA2009/001062 07/28/2009
which claims benefit of 61/129,898 07/28/2008

**** FOREIGN APPLICATIONS ***************************

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED **** ** SMALL ENTITY **
10/08/2013

Foreign Priority claimed	35 USC 119(a-d) conditions met	Verified and Acknowledged	Met after Allowance	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
☐ Yes ☑ No	☐ Yes ☑ No	/M MOSTAZIR RAHMAN/ Examiner's Signature	☐ Initials	CANADA	17	129	8

ADDRESS

KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614
UNITED STATES

TITLE

MOBILE GATEWAY

FILING FEE RECEIVED		
6140	FEES: Authority has been given in Paper No._____ to charge/credit DEPOSIT ACCOUNT No._____ for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit

BIB (Rev. 05/07).

T-Mobile Exhibit 1002

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	~~2472~~
(Multiple sheets used when necessary)	Examiner	~~Kizou, Hassan~~ Rahman, M Mostazir
SHEET 1 OF 1	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	1	WO 2007/056158 A2	05-18-2007	Roamware, Inc.		
	2	WO 2008/027065 A1	03-06-2008	Syniverse Technologies, Inc.		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	3	Extended European Search Report dated April 16, 2014 for European Patent Application No. EP 09 802 316.1 which shares priority of U.S. Provisional Application No. 61/129,898, filed July 28, 2008 with captioned U.S. Continuation Application No. 14/035,806.	

17876459
042814

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

T-Mobile Exhibit 1002

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	~~2413~~
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 1 OF 11	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	5,325,421	06-28-1994	Hou et al.	
	2	6,553,025 B1	04-22-2003	Kung et al.	
	3	6,560,224 B1	05-06-2003	Kung et al.	
	4	6,650,641 B1	11-18-2003	Albert et al.	
	5	6,775,534 B2	08-10-2004	Lindgren et al.	
	6	6,934,279 B1	08-23-2005	Sollee et al.	
	7	6,963,739 B2	11-08-2005	Dorenbosch et al.	
	8	6,985,440 B1	01-10-2006	Albert et al.	
	9	6,993,015 B2	01-31-2006	Kobayashi, Toshihiko	
	10	7,006,508 B2	02-28-2006	Bondy et al.	
	11	7,027,564 B2	04-11-2006	James, Anthony W.	
	12	7,068,668 B2	06-27-2006	Feuer, Donald S.	
	13	7,151,772 B1	12-19-2006	Kalmanek, Jr. et al.	
	14	7,177,399 B2	02-13-2007	Dawson et al.	
	15	7,277,528 B2	10-02-2007	Rao et al.	
	16	7,400,881 B2	07-15-2008	Kallio, Juha	
	17	7,436,835 B2	10-14-2008	Castleberry et al.	
	18	7,440,442 B2	10-21-2008	Grabelsky et al.	
	19	7,486,667 B2	02-03-2009	Feuer, Donald S.	
	20	7,567,131 B2	07-21-2009	Rollender et al.	
	21	7,573,982 B2	08-11-2009	Breen et al.	
	22	7,593,390 B2	09-22-2009	Lebizay, Gerald	
	23	7,639,792 B2	12-29-2009	Qiu et al.	
	24	7,657,011 B1	02-02-2010	Zielinski et al.	
	25	7,664,495 B1	02-16-2010	Bonner et al.	
	26	7,676,215 B2	03-09-2010	Chin et al.	
	27	7,680,114 B2	03-16-2010	Yazaki et al.	
	28	7,702,308 B2	04-20-2010	Rollender, Douglas Harold	

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	~~2413~~
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 2 OF 11	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	29	7,715,821 B2	05-11-2010	Rollender, Douglas Harold	
	30	7,738,384 B2	06-15-2010	Pelletier, Jeffrey P.	
	31	7,764,944 B2	07-27-2010	Rollender, Douglas Harold	
	32	7,797,459 B1	09-14-2010	Roy et al.	
	33	7,894,441 B2	02-22-2011	Yazaki et al.	
	34	7,907,551 B2	03-15-2011	Croy et al.	
	35	7,929,955 B1	04-19-2011	Bonner, Thomas W.	
	36	7,944,909 B2	05-17-2011	James, Anthony W.	
	37	7,965,645 B2	06-21-2011	Pelletier, Jeffrey P.	
	38	7,979,529 B2	07-12-2011	Kreusch et al.	
	39	7,995,589 B2	08-09-2011	Sollee et al.	
	40	8,024,785 B2	09-20-2011	Andress et al.	
	41	8,027,333 B2	09-27-2011	Grabelsky et al.	
	42	8,041,022 B1	10-18-2011	Andreasen et al.	
	43	8,050,273 B2	11-01-2011	Gass, Raymond	
	44	8,125,982 B2	02-28-2012	Feuer, Donald S.	
	45	8,145,182 B2	03-27-2012	Rudolf et al.	
	46	8,166,533 B2	04-24-2012	Yuan, Wei	
	47	8,189,568 B2	05-29-2012	Qiu et al.	
	48	8,204,044 B2	06-19-2012	Lebizay, Gerald	
	49	8,228,897 B2	07-24-2012	Mitchell, Don	
	50	8,244,204 B1	08-14-2012	Chen et al.	
	51	8,306,063 B2	11-06-2012	Erdal et al.	
	52	8,363,647 B2	01-29-2013	Fangman et al.	
	53	8,427,981 B2	04-23-2013	Wyss et al.	
	54	8,437,340 B2	05-07-2013	James, Anthony W.	
	55	8,462,915 B2	06-11-2013	Breen et al.	
	56	8,509,225 B2	08-13-2013	Grabelsky et al.	
	57	8,605,714 B2	12-10-2013	Lebizay, Gerald	

Examiner Signature	11/09/2015	Date Considered	11/09/2015

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	~~2413~~
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 3 OF 11	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	58	8,605,869 B1	12-10-2013	Mobarak et al.	
	59	8,607,323 B2	12-10-2013	Yuan, Wei	
	60	8,611,354 B2	12-17-2013	Keränen et al.	
	61	8,625,578 B2	01-07-2014	Roy et al.	
	62	8,724,643 B2	05-13-2014	Feuer, Donald S.	
	63	8,750,290 B2	06-10-2014	Vance et al.	
	64	8,763,081 B2	06-24-2014	Bogdanovic et al.	
	65	8,768,951 B2	07-01-2014	Crago, William Barry	
	66	8,774,171 B2	07-08-2014	Mitchell, Don	
	67	8,804,705 B2	08-12-2014	Voxpath Networks, Inc.	
	68	2001/0052081 A1	12-13-2001	McKibben et al.	
	69	2002/0002041 A1	01-03-2002	Lindgren et al.	
	70	2002/0018445 A1	02-14-2002	Kobayashi, Toshihiko	
	71	2002/0141352 A1	10-03-2002	Fangman et al.	
	72	2003/0012196 A1	01-16-2003	Ramakrishnan, Kadangode K.	
	73	2003/0095539 A1	05-22-2003	Feuer, Donald S.	
	74	2003/0179747 A1	09-25-2003	Pyke et al.	
	75	2003/0219103 A1	11-27-2003	Rao et al.	
	76	2004/0034793 A1	02-19-2004	Yuan, Wei	
	77	2004/0203582 A1	10-14-2004	Dorenbosch et al.	
	78	2004/0203565 A1	10-14-2004	Chin et al.	
	79	2005/0063519 A1	03-24-2005	James, Anthony W.	
	80	2005/0188081 A1	08-25-2005	Gibson et al.	
	81	2005/0190892 A1	09-01-2005	Dawson et al.	
	82	2005/0202799 A1	09-15-2005	Rollender, Douglas Harold	
	83	2005/0287979 A1	12-29-2005	Rollender, Douglas Harold	
	84	2006/0007940 A1	01-12-2006	Sollee et al.	
	85	2006/0013266 A1	01-19-2006	Vega-Garcia et al.	
	86	2006/0030290 A1	02-09-2006	Rudolf et al.	

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	~~2413~~
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 4 OF 11	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	87	2006/0078094 A1	04-13-2006	Breen et al.	
	88	2006/0142011 A1	06-29-2006	Kallio, Juha	
	89	2006/0146797 A1	07-06-2006	Lebizay, Gerald	
	90	2006/0189303 A1	08-24-2006	Rollender, Douglas Harold	
	91	2006/0205383 A1	09-14-2006	Rollender et al.	
	92	2006/0248186 A1	11-02-2006	Smith, Richard James	
	93	2006/0251056 A1	11-09-2006	Feuer, Donald S.	
	94	2006/0268921 A1	11-30-2006	Ekstrom et al.	
	95	2006/0281437 A1	12-14-2006	Cook, Charles I.	
	96	2007/0047548 A1	03-01-2007	Yazaki et al.	
	97	2007/0092070 A1	04-26-2007	Croy et al.	
	98	2007/0115935 A1	05-24-2007	Qiu et al.	
	99	2007/0121593 A1	05-31-2007	Vance et al.	
	100	2007/0174469 A1	07-26-2007	Andress et al.	
	101	2007/0220038 A1	09-20-2007	Crago, William Barry	
	102	2007/0253429 A1	11-01-2007	James, Anthony W.	
	103	2007/0263609 A1	11-15-2007	Mitchell, Don	
	104	2007/0297376 A1	12-27-2007	Gass, Raymond	
	105	2008/0013523 A1	01-17-2008	Nambakkam, Sampath	
	106	2008/0056243 A1	03-06-2008	Roy et al.	
	107	2008/0167039 A1	07-10-2008	Guedalia et al.	
	108	2008/0167020 A1	07-10-2008	Guedalia et al.	
	109	2008/0167019 A1	07-10-2008	Guedalia et al.	
	110	2008/0166999 A1	07-10-2008	Guedalia et al.	
	111	2008/0188227 A1	08-07-2008	Guedalia et al.	
	112	2008/0188198 A1	08-07-2008	Patel et al.	
	113	2008/0187122 A1	08-07-2008	Baker, Colin Lawrence Melvin	
	114	2008/0205378 A1	08-28-2008	Wyss et al.	
	115	2008/0310599 A1	12-18-2008	Purnadi et al.	

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	~~2413~~
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 5 OF 11	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	116	2009/0003535 A1	01-01-2009	Grabelsky et al.	
	117	2009/0129566 A1	05-21-2009	Feuer, Donald S.	
	118	2009/0135724 A1	05-28-2009	Zhang et al.	
	119	2009/0214000 A1	08-27-2009	Patel et al.	
	120	2009/0268615 A1	10-29-2009	Pelletier, Jeffrey P.	
	121	2009/0296900 A1	12-03-2009	Breen et al.	
	122	2010/0008345 A1	01-14-2010	Lebizay, Gerald	
	123	2010/0039946 A1	02-18-2010	Imbimbo et al.	
	124	2010/0105379 A1	04-29-2010	Bonner et al.	
	125	2010/0177671 A1	07-15-2010	Qiu et al.	
	126	2010/0246589 A1	09-30-2010	Pelletier, Jeffrey P.	
	127	2010/0272242 A1	10-28-2010	Croy et al.	
	128	2011/0013541 A1	01-20-2011	Croy et al.	
	129	2011/0153809 A1	06-23-2011	Ghanem et al.	
	130	2011/0176541 A1	07-21-2011	James, Anthony W.	
	131	2011/0201321 A1	08-18-2011	Bonner, Thomas W.	
	132	2011/0267986 A1	11-03-2011	Grabelsky et al.	
	133	2012/0014383 A1	01-19-2012	Geromel et al.	
	134	2012/0113981 A1	05-10-2012	Feuer, Donald S.	
	135	2012/0195415 A1	08-02-2012	Wyss et al.	
	136	2012/0250624 A1	10-04-2012	Lebizay, Gerald	
	137	2012/0282881 A1	11-08-2012	Mitchell, Don	
	138	2012/0314699 A1	12-13-2012	Qiu et al.	
	139	2013/0272297 A1	10-17-2013	AT&T Intellectual Property I, L.P.	
	140	2014/0101749 A1	04-10-2014	Rockstar Consortium US LP	
	141	2014/0211789 A1	07-31-2014	Centre One	

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	~~2413~~ 2411
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 6 OF 11	Attorney Docket No.	SMARB19.004C1

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	142	CA 2 218 218 A1	10-14-1997	AT&T Corp.		
	143	CA 2 299 037 A1	08-22-2000	Selex Communications, LLC		Abstract
	144	CA 2 437 275 A1	10-17-2002	Nortel Networks Limited		Abstract
	145	CA 2 690 236 A1	12-18-2008	Research In Motion Ltd		Abstract
	146	CN 1498029 A	05-19-2004	Lucent Technologies Inc		Abstract
	147	CN 1498482 A	05-19-2004	Siemens AG		Abstract
	148	CN 1668137 A	09-14-2005	Lucent Technologies Inc		Abstract
	149	CN 1274114 C	09-06-2006	Siemens AG		Abstract
	150	CN 101005503 A	07-25-2007	IBM		Abstract
	151	CN 101069390 A	11-07-2007	Nokia Corp		Abstract
	152	CN 101095329 A	12-26-2007	Intel Corp		Abstract
	153	CN 1498029 B	05-12-2010	Lucent Technologies Inc		Abstract
	154	CN 101772929 A	07-07-2010	Research In Motion Ltd		Abstract
	155	CN 101069390 B	12-22-2010	Nokia Corp		Abstract
	156	CN 102484656 A	05-30-2012	Telefonaktiebolaget LM Ericsson		Abstract
	157	CN 101095329 B	10-10-2012	Intel Corp		Abstract
	158	CN 102833232 A	12-19-2012	Intel Corp		Abstract
	159	CN 101005503 B	01-16-2013	IBM		Abstract
	160	CN 101772929 B	07-02-2014	Research In Motion Ltd		Abstract
	161	DE 602 01 827 T2	11-10-2005	Alcatel SA		Abstract
	162	DE 11 2005 003 306 T5	01-24-2008	Intel Corp	*Corresponding Abstract: International Publication No. WO 2006/072099 A1 published 07-06-2006; is supplied with this document*	Abstract
	163	DE 601 33 316 T2	07-10-2008	Nortel Networks Ltd.		Abstract
	164	DE 603 17 751 T2	11-06-2008	Lucent Technologies Inc		Abstract
	165	EP 0 841 832 A2	05-13-1998	AT&T Corp.		
	166	EP 0 841 832 A3	05-19-1999	AT&T Corp.		

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	~~2413~~
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 7 OF 11	Attorney Docket No.	SMARB19.004C1

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	167	EP 1 032 224 A2	08-30-2000	Selex Communications, LLC		
	168	EP 1 032 224 A3	08-30-2000	Selex Communications, LLC		
	169	EP 1 244 250 A1	09-25-2002	Siemens AG		Abstract
	170	EP 1 266 516 A2	12-18-2002	Nortel Networks Ltd	*Published by WIPO under: International Publication No. WO 01/069899 A2 published 12-18-2002; Abstract of which is supplied with this document*	Abstract
	171	EP 1 362 456 A2	11-19-2003	Nortel Networks Ltd	*Published by WIPO under: International Publication No. WO 02/082782 A2 published 10-17-2002; Abstract of which is supplied with this document*	Abstract
	172	EP 1 371 173 A1	12-17-2003	Siemens AG	*Published by WIPO under: International Publication No. WO 02/082728 A1 published 10-17-2002; Abstract of which is supplied with this document*	Abstract
	173	EP 1 411 743 A1	04-21-2004	Lucent Technologies Inc.		
	174	EP 1 526 697 A2	04-27-2005	3COM Corporation		
	175	EP 1 362 456 A4	05-25-2005	Nortel Networks Ltd		Abstract
	176	EP 1 575 327 A1	09-14-2005	Lucent Technologies Inc.		
	177	EP 1 610 583 A1	12-28-2005	Lucent Technologies Inc.		
	178	EP 1 526 697 A3	03-22-2006	3COM Corporation		
	179	EP 1 721 446 A1	11-15-2006	Nortel Networks Ltd	*Published by WIPO under: International Publication No. WO 2005/084002 A1 published 10-09-2005; Abstract of which is supplied with this document*	Abstract

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 8 OF 11	Attorney Docket No.	SMARB19.004C1

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	180	EP 1 829 300 A1	09-05-2007	Nokia Corp	Published by WIPO under: International Publication No. WO 2006/067269 A1 published 06-29-2006; Abstract of which is supplied with this document	Abstract
	181	EP 1 371 173 B1	11-28-2007	Siemens AG		Abstract
	182	EP 1 411 743 B1	11-28-2007	Lucent Technologies Inc.		
	183	EP 1 362 456 B1	03-19-2008	Nortel Networks Ltd		
	184	EP 1 974 304 A2	10-01-2008	Medical Envelope LLC	*Published by WIPO under: International Publication No. WO 2007/087077 A2 published 08-02-2007; Abstract of which is supplied with this document*	Abstract
	185	EP 1 974 304 A4	10-01-2008	Medical Envelope LLC		Abstract
	186	EP 1 610 583 B1	08-26-2009	Lucent Technologies Inc.		
	187	EP 2 127 232 A1	12-02-2009	Interactive Intelligence Inc	*Published by WIPO under: International Publication No. WO 2008/103652 A1 published 08-28-2008; Abstract of which is supplied with this document*	Abstract
	188	EP 2 165 489 A1	03-24-2010	Research In Motion Ltd	*Published by WIPO under: International Publication No. WO 2008/103652 A1 published 08-28-2008; Abstract of which is supplied with this document*	Abstract
	189	EP 2 215 755 A1	08-11-2010	Broadsoft Inc	*Published by WIPO under: International Publication No. WO 2009/070278 A1 published 06-04-2009; Abstract of which is supplied with this document*	Abstract
	190	EP 2 165 489 A4	03-02-2011	Research In Motion Ltd		Abstract
	191	EP 2 127 232 A4	03-16-2011	Interactive Intelligence Inc		Abstract

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 9 OF 11	Attorney Docket No.	SMARB19.004C1

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	192	EP 1 829 300 A4	05-02-2012	Nokia Corp	Corresponding Abstract: International Publication No. WO 2006/067269 A1 published 06-29-2006; is supplied with this document	Abstract
	193	EP 2 449 749 A1	05-09-2012	Telefonaktiebolaget LM Ericsson	*Published by WIPO under: International Publication No. WO 2011/000405 A1 published 01-06-2011; Abstract of which is supplied with this document*	Abstract
	194	EP 2 215 755 A4	10-24-2012	Broadsoft Inc		Abstract
	195	EP 1 829 300 B1	11-21-2012	Nokia Corp	*Corresponding Abstract: International Publication No. WO 2006/067269 A1 published 06-29-2006; is supplied with this document*	Abstract
	196	EP 2 449 749 B1	03-12-2014	Telefonaktiebolaget LM Ericsson		
	197	EP 1 266 516 B1	05-07-2014	Genband US LLC		
	198	WO 01/69899 A2	09-20-2001	Nortel Networks Ltd.		
	199	WO 01/69899 A3	09-20-2001	Nortel Networks Ltd.		
	200	WO 01/80587 A1	10-25-2001	Telefonaktiebolaget LM Ericsson		
	201	WO 02/082728 A1	10-17-2002	Siemens AG		Abstract
	202	WO 02/082782 A2	10-17-2002	Nortel Networks Limited		
	203	WO 02/082782 A3	10-17-2002	Nortel Networks Limited		
	204	WO 2005/084002 A1	09-09-2005	Nortel Networks Limited		
	205	WO 2006/067269 A1	06-29-2006	Nokia Corporation		
	206	WO 2006/072099 A1	07-06-2006	Intel Corporation		
	207	WO 2006/078175 A2	07-27-2006	Baker, Colin et al.		
	208	WO 2006/078175 A3	07-27-2006	Baker, Colin et al.		
	209	WO 2007/044454 A2	04-19-2007	Telecommunication Systems, Inc.		
	210	WO 2007/087077 A2	08-02-2007	Medical Envelope LLC		

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 10 OF 11	Attorney Docket No.	SMARB19.004C1

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	211	WO 2007/087077 A3	08-02-2007	Medical Envelope LLC		
	212	WO 2008/085614 A2	07-17-2008	ISKOOT, Inc.		
	213	WO 2008/085614 A3	07-17-2008	ISKOOT, Inc.		
	214	WO 2008/086350 A2	07-17-2008	ISKOOT, Inc.		
	215	WO 2008/086350 A3	07-17-2008	ISKOOT, Inc.		
	216	WO 2008/103652 A1	08-28-2008	Interactive Intelligence, Inc.		
	217	WO 2008/085614 A8	12-11-2008	ISKOOT, Inc.		
	218	WO 2008/151406 A1	12-18-2008	Research In Motion Ltd		
	219	WO 2008/151406 A8	12-18-2008	Research In Motion Ltd		
	220	WO 2009/070202 A1	06-04-2009	Tellabs Operations, Inc.		
	221	WO 2009/070278 A1	06-04-2009	Broadsoft, Inc.		
	222	WO 2011/000405 A1	01-06-2011	Telefonaktiebolaget LM Ericsson		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	223	Baker *et al.*, "Cisco Support for Lawful Intercept In IP Networks," Internet Draft - working document of the Internet Engineering Task Force (IETF), accessible at http://www.ietf.org/ietf/lid-abstracts.txt, April 2003, expires September 30, 2003, pages 1-15.	
	224	Bhushan *et al.*, "Federated Accounting: Service Charging and Billing in a Business-to-Business Environment," 0-7803-6719-7/01, © 2001 IEEE, pages 107-121.	
	225	Jajszczyk *et al.*, "Emergency Calls in Flow-Aware Networks," *IEEE Communications Letters*, Vol. 11, No. 9, September 2007, pages 753-755.	
	226	Kim *et al.*, "An Enhanced VoIP Emergency Services Prototype," *Proceedings of the 3rd International ISCRAM Conference (B. Van de Walle and M. Turoff, eds.), Newark, NJ (USA)*, May 2006, pages 1-8.	
	227	Kornfeld *et al.*, "DVB-H and IP Datacast—Broadcast to Handheld Devices," *IEEE Transactions On Broadcasting*, Vol. 53, No. 1, March 2007, pages 161-170.	
	228	Kortebi *et al.*, "SINR-Based Routing in Multi-Hop Wireless Networks to Improve VoIP Applications Support," 1-4244-0667-6/07, © 2007 IEEE, pages 491-496.	
	229	Lee *et al.*, "VoIP Interoperation with KT-NGN," in *The 6th International Conference on Advanced Communication Technology*, Technical Proceedings, 2004, pages 126-128, accompanied by Title and Contents - 4 pages.	

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

T-Mobile Exhibit 1002

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	~~2413~~
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 11 OF 11	Attorney Docket No.	SMARB19.004C1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	230	Lin *et al.*, "Effective VoIP Call Routing in WLAN and Cellular Integration," *IEEE Communications Letters*, Vol. 9, No. 10, October 2005, pages 874-876.	
	231	Ma *et al.*, "Realizing MPEG4 Video Transmission Based on Mobile Station over GPRS," *0-7803-9335-X/05,* © 2005 IEEE, pages 1241-1244.	
	232	Mintz-Habib *et al.*, "A VoIP Emergency Services Architecture and Prototype," *{mm2571,asr,hgs,xiaotaow}@cs.columbia.edu, 0-7803-9428-3/05,* © 2005 IEEE, pages 523-528.	
	233	Munir, Muhammad Farukh, "Study of an Adaptive Scheme for Voice Transmission on IP in a Wireless Networking Environment 802.11e," *Dept. of Networks and Distributed Computing, Ecole Supérieure En Sciences Informatiques (ESSI), Université De Nice*, June 2005, (pages 1-35), BEST AVAILABLE COPY - pages 1-11.	
	234	Sripanidkulchai *et al.*, "Call Routing Management in Enterprise VoIP Networks," *Copyright 2007 ACM* 978-1-59593-788-9/07/0008, 6 pages.	
	235	Thernelius, Fredrik, "SIP, NAT, and Firewalls," Master's Thesis, *ERICSSON, Department of Teleinformatics*, May 2000, pages 1-69.	
	236	Trad *et al.*, "Adaptive VoIP Transmission over Heterogeneous Wired/Wireless Networks," *V. Roca and F. Rousscau (Eds.): MIPS 2004, LNCS 3311*, pp. 25-36, 2004, © Springer-Verlag Berlin Heidelberg 2004.	
	237	Yu et al., "Service-Oriented Issues: Mobility, Security, Charging and Billing Management in Mobile Next Generation Networks," *IEEE BcN2006, 1-4244-0146-1/06,* © 2006 IEEE, pages 1-10.	

19430900
120114

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2411
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 1 OF 2	Attorney Docket No.	DIGIF.004C1

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	5,677,955 A1	10-14-1995	Doggett et al.	
	2	5,883,810 A1	03-16-1999	Franklin et al.	
	3	6,173,272 B1	01-09-2001	Thomas et al.	
	4	6,243,689 B1	06-05-2001	Norton, Robert G.	
	5	6,636,833 B1	10-21-2003	Fitcroft et al.	
	6	6,772,188 B1	08-03-2004	Cheng-Sheng et al.	
	7	6,892,184 B1	05-10-2005	Komen et al.	
	8	7,051,072 B2	05-23-2006	Stewart et al.	
	9	7,330,835 B2	02-12-2008	Deggendorf, Theresa M.	
	10	7,426,492 B2	09-16-2008	Bishop et al.	
	11	7,437,665 B2	10-14-2008	Perham, Michael	
	12	7,447,707 B2	11-04-2008	Gaurav et al.	
	13	7,580,886 B1	08-25-2009	Schulz, Larry	
	14	7,593,884 B2	09-22-2009	Rothman et al.	
	15	7,599,944 B2	10-06-2009	Gaurav et al.	
	16	7,644,037 B1	01-05-2010	Ostrovsky, Vladimir	
	17	7,647,500 B2	01-12-2010	Machiraju et al.	
	18	7,676,431 B2	03-09-2010	O'Leary et al.	
	19	7,680,737 B2	03-16-2010	Smith et al.	
	20	7,734,544 B2	06-08-2010	Schleicher, Joerg	
	21	7,765,261 B2	07-27-2010	Kropivny, Alexander	
	22	7,765,266 B2	07-27-2010	Kropivny, Alexander	
	23	7,882,011 B2	02-01-2011	Sandhu et al.	
	24	7,899,742 B2	03-11-2011	Berkert et al.	
	25	8,060,887 B2	11-15-2011	Kropivny, Alexander	
	26	8,161,078 B2	04-17-2012	Gaurav et al.	
	27	8,200,575 B2	06-12-2012	Torres et al.	
	28	8,543,477 B2	09-24-2013	Love et al.	
	29	8,627,211 B2	01-07-2014	Kropivny, Alexander	

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Place a check mark in this area when an English Language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2411
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 2 OF 2	Attorney Docket No.	DIGIF.004C1

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	30	8,702,505 B2	04-22-2014	Kropivny, Alexander	
	31	2005/0131813 A1	06-16-2005	Gallagher et al.	
	32	2005/0171898 A1	08-04-2005	Bishop et al.	
	33	2005/0192897 A1	09-01-2005	Rogers et al.	
	34	2005/0192901 A1	09-01-2005	McCoy et al.	
	35	2005/0222952 A1	10-06-2005	Garrett et al.	
	36	2005/0267842 A1	12-01-2005	Weichert et al.	
	37	2006/0006224 A1	01-12-2006	Modi, Vikram	
	38	2006/0036522 A1	02-15-2006	Perham, Michael	
	39	2006/0095320 A1	05-04-2006	Jones, Lisa	
	40	2006/0116892 A1	06-01-2006	Grimes et al.	
	41	2006/0195398 A1	08-31-2006	Dheer et al.	
	42	2007/0016524 A1	01-18-2007	Diveley et al.	
	43	2014/0141884 A1	05-22-2014	Kropivny, Alexander	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	44	Ketchpel *et al.* "U-PAI: A universal payment application interface" *Second USENIX Workshop on Electronic Commerce Proceedings*, 1996-8, pages 1-17.	
	45	Moberg & Drummond, "MIME-Based Secure Peer-to-Peer Business Data Interchange Using HTTP, Applicability Statement 2 (AS2)," *Network Working Group, Request for Comments: 4130, Category: Standards Track*, Copyright © The Internet Society July 2005, pages 1-47.	
	46	Abrazhevich, Dennis. "Electronic Payment Systems: a User-Centered Perspective and Interaction Design," *Thesis under the auspices of the J.F. Schouten School for User-System Interaction Research*, Technische Universiteit Eindhoven, Netherlands, 2004, pages Cover page - page 189.	

21400308
081915

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Place a check mark in this area when an English Language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	25	(US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2015/11/30 09:34
L2	12	L1 and (SMS same server$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/30 09:34
L3	5	L1 and (SMS same server$3 SAME (location GPS))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/30 09:38
L4	5	"20080101370"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/30 09:42
L5	26	(US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2015/11/30 09:47

L6	6	5 and (SMS SAME server SAME (location GPS))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/30 09:47
L7	8	5 and (SMS SAME server SAME3 (location GPS))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/30 10:08
L8	17	5 and ((ID identification key flag address) SAME (location GPS))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/30 11:00
L9	15	5 and ((ID identification key flag address) SAME (location GPS) SAME server)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/30 11:01
L10	11	5 and ((transmit$4 send$4) SAME (ID identification key flag address) SAME (location GPS) SAME server)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/30 11:03
L11	3	5 and ((transmit$4 send$4) SAME (ID identification key flag address) WITH (location GPS) WITH server)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/30 11:11
L12	2	(US-20080160953-$ or US-20080056235-$).did.	US-PGPUB	OR	OFF	2015/11/30 12:07
L13	2	12 and (SMS SAME server)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/30 12:07
L14	2	12 and (location SAME channel)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/30 12:25
L15	1	"14035806"	US-PGPUB; USPAT; DERWENT	OR	OFF	2015/11/30 12:59
S1	2	"13056277"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/02/25 16:48
S2	34	("20060093135" | "20040022237" |	US-PGPUB;	OR	ON	2013/02/25

		"7055174" | "20060153342" | "20060258328" | "6724860" | "20070112964" | "7046658" | "20030200311" | "8116307" | "6151385" | "6597686" | "6744858" | "20060072550" | "20050025043" | "6963557" | "20040240439").PN.	USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB			18:09
S3	2	"13056277"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/13 16:03
S4	34	("20060093135" | "20040022237" | "7055174" | "20060153342" | "20060258328" | "6724860" | "20070112964" | "7046658" | "20030200311" | "8116307" | "6151385" | "6597686" | "6744858" | "20060072550" | "20050025043" | "6963557" | "20040240439").PN.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/13 16:03
S5	34	("20060093135" | "20040022237" | "7055174" | "20060153342" | "20060258328" | "6724860" | "20070112964" | "7046658" | "20030200311" | "8116307" | "6151385" | "6597686" | "6744858" | "20060072550" | "20050025043" | "6963557" | "20040240439").PN.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/13 16:03
S6	4	((JOHAN) near2 (BJORSELL)).INV.	US-PGPUB; USPAT	OR	ON	2013/03/13 16:16
S7	3	((MAKSYM) near2 (SOBOLYEV)).INV.	US-PGPUB; USPAT	OR	ON	2013/03/13 16:16
S8	2	((PENTTI) near2 (HUTTUNEN)).INV.	US-PGPUB; USPAT	OR	ON	2013/03/13 16:17
S10	5	(digifonica).as.	US-PGPUB; USPAT	OR	ON	2013/03/13 16:21
S11	5	S6 or S7 or S8 or S10	US-PGPUB; USPAT	OR	ON	2013/03/13 16:21
S12	288340	(370/310-338,395.$.ccls. "379".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728")	US-PGPUB; USPAT	OR	ON	2013/03/13 16:29
S13	1195	((caller 'calling party')same (callee 'called party') same access same code same request same call$4)	US-PGPUB; USPAT	OR	ON	2013/03/13 16:33
S14	701	S12 and ((caller 'calling party')same (callee 'called party') same access same code same request same call$4)	US-PGPUB; USPAT	OR	ON	2013/03/13 16:33
S15	40	S12 and ((caller 'calling party')same (callee 'called party') same access same code same request same call$4 same server same rout$5)	US-PGPUB; USPAT	OR	ON	2013/03/13 16:34
S16	23	S12 and ((caller 'calling party')same (callee 'called party') same access same code same request same call$4 same server same rout$5 same (channel or (ID identifier identificat$5)))	US-PGPUB; USPAT	OR	ON	2013/03/13 16:36

S18	2	us-20070112964-$.did. us-20040022237-$.did.	US-PGPUB; USPAT	OR	ON	2013/03/13 16:49
S19	4	us-20070112964-$.did. us-20040022237-$.did.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/13 16:49
S20	245256	(370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728")	US-PGPUB; USPAT	OR	ON	2013/03/13 16:52
S21	1	S20 and ((access adj code) same (channel adj (identifier ID identification) same request))	US-PGPUB; USPAT	OR	ON	2013/03/13 16:53
S22	366030	("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728")	US-PGPUB; USPAT	OR	ON	2013/03/13 16:54
S24	354	S22 and ((access adj code) same (channel ID identification) same request)	US-PGPUB; USPAT	OR	ON	2013/03/13 16:55
S25	8	S22 and ((access adj code) same (channel with (ID identification)) same request)	US-PGPUB; USPAT	OR	ON	2013/03/13 16:56
S26	10	S22 and ((access adj2 code) same caller same callee)	US-PGPUB; USPAT	OR	ON	2013/03/13 16:59
S27	58	S22 and ((phone caller callee 'calling party') same server same router same (initiat$4 or setup or sett$4)same channel)	US-PGPUB; USPAT	OR	ON	2013/03/13 17:05
S28	10	S22 and ((phone caller callee "calling party" "called party" "called terminal" "calling party") same server same rout$5 same (call near5 (initiat$4 or setup)) same channel same request same (ID identif$7))	US-PGPUB; USPAT	OR	ON	2013/03/13 17:19
S29	257	S22 and (caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5)	US-PGPUB; USPAT	OR	ON	2013/03/13 17:27
S30	72	S22 and (caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) same access$5	US-PGPUB; USPAT	OR	ON	2013/03/13 17:28
S31	11	(US-20070281705-$ or US-20130028251-$ or US-20090252159-$ or US-20080049732-$ or US-20070121590-$ or US-20040042607-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$).did. or (US-7068684-$ or US-6963635-$).did.	US-PGPUB; USPAT	OR	ON	2013/03/13 19:13
S32	9	S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5))	US-PGPUB; USPAT	OR	ON	2013/03/13 19:13
S33	3	S31 and ((caller callee "calling party" "called party" "called terminal" "calling	US-PGPUB; USPAT	OR	ON	2013/03/13 19:16

		party") same (call$3 near server) same (router gateway rout$3 adj control$5) and processor and interface and identification)				
S34	7	S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) and channel and (initiat$5 setup) and (identi$7 ID))	US-PGPUB; USPAT	OR	ON	2013/03/13 19:18
S35	7	S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) and channel and (initiat$5 setup) and (identi$7 ID) and voice and (location local$3 geograph$5 area) and number)	US-PGPUB; USPAT	OR	ON	2013/03/13 19:21
S36	2	S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) and channel and (initiat$5 setup) and (identi$7 ID) and voice and (location local$3 geograph$5 area) and number and expir$5)	US-PGPUB; USPAT	OR	ON	2013/03/13 19:22
S37	2	S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) and channel and (initiat$5 setup) and (identi$7 ID) and voice and (location local$3 geograph$5 area) and number and expir$5 and (access adj code))	US-PGPUB; USPAT	OR	ON	2013/03/13 19:54
S39	3	"7079526".pn. us-20030114145-$.did. "6016319".pn.	US-PGPUB; USPAT	OR	ON	2013/03/14 11:27
S40	409041	("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 11:17
S43	21100	S40 and (initiat$4 adj3 call)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 11:21
S44	128	S40 and ((initiat$4 adj2 call) same (access adj2 code))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 11:22
S45	101	S40 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 11:23

S46	38	S40 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) and ((voice data) adj2 network))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 11:23
S47	33	S40 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) and ((non$voice data) adj2 network$5))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 11:25
S48	11	S40 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) and ((non$voice data) adj2 network$5) and (indentifier ID indentification))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 11:26
S49	35	("2006/0189337").URPN.	USPAT	OR	ON	2013/03/15 11:34
S50	5	S46 not S47	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 11:46
S51	63	S45 not S46	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 11:47
S52	409041	("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 11:52
S53	0	S52 and ((initiat$4 adj2 call) same (access adj2 code) same (data adj2 network$5))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 11:52
S54	213	S52 and ((initiat$4 with call) same (access adj5 code) and (data with network$5))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 11:53
S55	159	S52 and ((initiat$4 with call) same (access adj5 code) and (data with network$5) and (wirless mobile handfree))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 11:54
S56	22	S52 and ((initiat$4 with call) same (access adj5 code) and (data with network$5) and (wirless mobile handfree) adj5 (IP or (internet adj2	US-PGPUB; USPAT; FPRS; EPO; JPO;	OR	ON	2013/03/15 11:54

		protocol)))	DERWENT; IBM_TDB			
S57	20	S52 and ((initiat$4 with call) same (access adj5 code) and (data adj5 network$5) and (wirless mobile handfree) adj5 (IP or (internet adj2 protocol)))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 11:55
S58	17	(US-20070281705-$ or US-20130028251-$ or US-20090252159-$ or US-20080049732-$ or US-20070121590-$ or US-20040042607-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$).did. or (WO-2010012090-$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2013/03/15 12:01
S62	17	S58 and (server)	US-PGPUB; USPAT; DERWENT	OR	ON	2013/03/15 12:02
S63	11	S58 and (server and client)	US-PGPUB; USPAT; DERWENT	OR	ON	2013/03/15 12:03
S64	181	S52 and (channel same (ID indentifier indentification) same request same server same (router rout$5 gateway adj control$5))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 12:32
S65	27	S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway adj control$5))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 12:33
S67	154	S64 not S65	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 12:34
S68	32	S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 12:34
S69	2	S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) and (wireless adj2 ip adj4 network$5))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 12:35
S72	2	S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) AND (wireless adj2 ip	US-PGPUB; USPAT; FPRS; EPO; JPO;	OR	ON	2013/03/15 12:36

		adj4 network$5))	DERWENT; IBM_TDB			
S73	5	S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) AND (wireless with (ip or (internet adj2 protocol))))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 12:46
S74	12	S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) AND ((wireless mobile) with (ip or (internet adj2 protocol))))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 12:48
S76	7	S74 not S73	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 12:49
S77	432569	("370".clas. "709".clas. "455".clas. "725".clas.) and (@ad <"20080728" @rlad <"20080728")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 13:10
S79	2	S77 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) AND (wireless adj5 IP))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 13:11
S82	0	S79 and (POOL)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 15:32
S83	0	S79 and (indenfi$5)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 15:33
S84	2	S79 and (identifi$5)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 15:33
S85	2	S79 and (identifi$5 and access)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 15:33
S86	0	S79 and (identifi$5 with access)	US-PGPUB; USPAT; FPRS; EPO; JPO;	OR	ON	2013/03/15 15:33

			DERWENT; IBM_TDB			
S87	2	S79 and (identifi$5 and access and number)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 15:33
S88	2	S79 and (identifi$5 and access and number and associat$5)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 15:34
S89	2	S79 and (identifi$5 and access and number and associat$5 and select$5)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 15:34
S90	900	S52 and (pool database) with (access adj code phone adj number) with (associat$3 respective)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 15:57
S91	0	S52 and (pool database) with (access adj code) with (phone adj number) with (associat$3 respective) same (wireless IP)\	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 15:57
S92	0	S52 and (pool database) with (access adj code) with (phone adj number) with (associat$3 respective) and (wireless IP)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 15:58
S93	820	S52 and (pool database) with (access adj code phone adj number) with (associat$3 respective) and (wireless IP)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 15:58
S94	181	S52 and (pool database) with (access adj code phone adj number) with (associat$3 respective) same (wireless IP)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 15:58
S95	8	S52 and (pool database) with (access adj code phone adj number) with (associat$3 respective) same (wireless with IP)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 15:59
S98	20	(US-20070281705-$ or US-20130028251-$ or US-20090252159-$ or US-20080049732-$ or US-20070121590-$ or US-20040042607-$	US-PGPUB; USPAT; DERWENT	OR	ON	2013/03/15 16:13

		or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$).did. or (WO-2010012090-$).did.				
S99	11	S98 and (local with number)	US-PGPUB; USPAT; DERWENT	OR	ON	2013/03/15 16:17
S100	9	S98 and (local near7 number)	US-PGPUB; USPAT; DERWENT	OR	ON	2013/03/15 16:19
S101	7	S98 and (local near4 number)	US-PGPUB; USPAT; DERWENT	OR	ON	2013/03/15 16:19
S102	3	(US-20040022237-$ or US-20080056235-$).did. or (US-6674745-$).did.	US-PGPUB; USPAT	OR	ON	2013/03/15 16:49
S103	3	S102 AND (ip adj2 address)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 16:49
S104	0	S102 AND (ip adj2 address with mobile)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 16:50
S105	2	S102 AND (ip adj2 address with (receiv$5 reception))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 16:50
S106	3	S102 AND (ip adj2 address with server)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 16:52
S107	0	S102 AND (ip adj2 address with server with receiv$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 16:53
S108	1	S102 AND (ip adj2 address with receiv$3 same server)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 16:53
S109	0	S102 AND ((ip adj address) with caller)	US-PGPUB; USPAT; FPRS;	OR	ON	2013/03/15 16:54

			EPO; JPO; DERWENT; IBM_TDB			
S110	2	S102 AND ((ip adj address) with call$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 16:54
S111	1	"12116756"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 14:43
S112	3	(US-20040022237-$ or US-20080056235-$).did. or (US-6674745-$).did.	US-PGPUB; USPAT	OR	ON	2013/03/16 15:36
S115	1	S112 AND (identif$5 same wireless)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 15:37
S116	3	S112 AND (identif$5 and (mobile wireless))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 16:09
S117	1	S112 AND (identif$5 with (mobile wireless))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 16:09
S118	2	S112 AND (identif$5 same (mobile wireless))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 16:09
S119	3	S112 AND (identi$6 and (mobile wireless) and config$5)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 16:11
S122	3	S112 AND (identi$6 and (mobile wireless) and config$5 and user)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 16:11
S123	3	S112 AND (identi$6 and (mobile wireless) and config$5 and user and location)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 16:12

S124	2	S112 AND (identi$6 same (mobile wireless) and config$5 and user and location)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 16:12
S126	1	S112 AND (identi$6 same (mobile wireless) and (config$5 same location) and user)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 16:13
S127	1	S112 AND (identi$6 same (mobile wireless) same location and (config$5 same user))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 16:17
S128	2	S112 AND (location same identi$6 same user)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 16:50
S129	3	S112 AND (local same number)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 17:08
S130	2	S112 AND (local near5 number)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 17:12
S131	3	S112 AND (IP adj2 network same rout$5)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 17:19
S136	3	S112 AND (call same channel)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 17:39
S137	1	S112 AND (call same channel same establ$5)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 17:39
S141	1	S112 AND (establ$5 same call same channel)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 17:41

S142	2	S112 AND (call$5 same identif$6 same access)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 18:31
S143	1	S112 AND (call$5 same identif$6 same access same code)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 18:31
S144	3	(US-20040022237-$ or US-20080056235-$).did. or (US-6674745-$).did.	US-PGPUB; USPAT	OR	ON	2013/03/18 19:29
S145	3	S144 and (telephone same number)	US-PGPUB; USPAT	OR	ON	2013/03/18 19:30
S146	2	S144 and ((number or code) with match$4)	US-PGPUB; USPAT	OR	ON	2013/03/18 19:31
S147	3	S144 and ((number or code or ID or identifier) with called)	US-PGPUB; USPAT	OR	ON	2013/03/18 19:37
S148	2	S144 and ((number or code or ID or identifier) with channel)	US-PGPUB; USPAT	OR	ON	2013/03/18 19:45
S149	1	S144 and ((number or code) same (ID or identifier) same channel)	US-PGPUB; USPAT	OR	ON	2013/03/18 19:46
S150	2	S144 and ((number or code or ID or identifier) same channel same (called dialed))	US-PGPUB; USPAT	OR	ON	2013/03/18 19:49
S151	2	S144 and (channel same (called dialed))	US-PGPUB; USPAT	OR	ON	2013/03/18 19:51
S152	3	S144 and (TTL expir$5 timestap)	US-PGPUB; USPAT	OR	ON	2013/03/18 19:56
S153	3	S144 and (TTL expir$5 timestamp)	US-PGPUB; USPAT	OR	ON	2013/03/18 19:56
S154	2	S144 and (data non$1voice) with (reply respon$4)	US-PGPUB; USPAT	OR	ON	2013/03/18 20:09
S155	2	S144 and (data non$1voice) same (code numer ID identifier) same (reply respon$4)	US-PGPUB; USPAT	OR	ON	2013/03/18 20:10
S156	3	S144 and (data non$1voice) same (code numer ID identifier)	US-PGPUB; USPAT	OR	ON	2013/03/18 20:12
S157	3	S144 and (data non$1voice) same (code numer ID identifier) same2 (reply$3 respon$5)	US-PGPUB; USPAT	OR	ON	2013/03/18 20:14
S158	3	S144 and (data non$1voice) same (code number ID identifier) same2 (reply$3 respon$5)	US-PGPUB; USPAT	OR	ON	2013/03/18 20:14
S159	3	S144 and (data non$1voice) same (code number ID identifier) same (reply$3 respon$5)	US-PGPUB; USPAT	OR	ON	2013/03/18 20:17
S160	1	S144 and code with (reply$3 respon$5)	US-PGPUB; USPAT	OR	ON	2013/03/18 20:19
S161	3	S144 and (number ID identifier) with (reply$3 respon$5)	US-PGPUB; USPAT	OR	ON	2013/03/18 20:21
S162	2	S144 and (access adj code)	US-PGPUB; USPAT	OR	ON	2013/03/18 20:23

S163	0	S144 and (access adj code) same (reply reponse respond$3)	US-PGPUB; USPAT	OR	ON	2013/03/18 20:23
S164	1	S144 and (access adj code) same2 (reply reponse respond$3)	US-PGPUB; USPAT	OR	ON	2013/03/18 20:24
S165	1	S144 and code same query	US-PGPUB; USPAT	OR	ON	2013/03/18 20:26
S166	0	"L29" and (data with interface with access adj code with (reply response respond$3))	US-PGPUB; USPAT	OR	ON	2013/03/18 20:26
S167	366130	("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728")	US-PGPUB; USPAT	OR	ON	2013/03/18 20:27
S168	6	S167 and (data with interface with access adj code with (reply response respond$3))	US-PGPUB; USPAT	OR	ON	2013/03/18 20:27
S169	1	S167 and (access adj code) with expir$5 with (establish$4 ssetup)	US-PGPUB; USPAT	OR	ON	2013/03/18 20:41
S170	3	S167 and (access adj code) with expir$5 with (establish$4 setup)	US-PGPUB; USPAT	OR	ON	2013/03/18 20:41
S171	8	S167 and (access adj code) with expir$5 with call$3	US-PGPUB; USPAT	OR	ON	2013/03/18 20:43
S172	5	(US-20040022237-$ or US-20080056235-$ or US-20020122391-$).did. or (US-6674745-$ or US-5454030-$).did.	US-PGPUB; USPAT	OR	ON	2013/03/22 14:46
S173	3	S172 and (dial$3 with number)	US-PGPUB; USPAT	OR	ON	2013/03/22 15:52
S174	2	S172 and (called with number with request)	US-PGPUB; USPAT	OR	ON	2013/03/22 15:58
S175	1	S172 and (calling with number with request)	US-PGPUB; USPAT	OR	ON	2013/03/22 16:00
S176	1	S172 and (calling with request)	US-PGPUB; USPAT	OR	ON	2013/03/22 16:01
S178	2	S172 and (request with access)	US-PGPUB; USPAT	OR	ON	2013/03/22 16:03
S179	4	S172 and (access near code)	US-PGPUB; USPAT	OR	ON	2013/03/22 16:04
S180	1	S172 and (access with soft)	US-PGPUB; USPAT	OR	ON	2013/03/22 16:06
S181	1	S172 and (access same soft same (caller calling))	US-PGPUB; USPAT	OR	ON	2013/03/22 16:08
S182	1	S172 and (access same request$3 same (caller calling))	US-PGPUB; USPAT	OR	ON	2013/03/22 16:09
S185	1	S172 and (reply with request$3)	US-PGPUB; USPAT	OR	ON	2013/03/22 16:15
S186	5	S172 and (reply response)	US-PGPUB; USPAT	OR	ON	2013/03/22 16:16
S187	4	S172 and ((reply response) with (code id identif$8))	US-PGPUB; USPAT	OR	ON	2013/03/22 16:19
S188	4	S172 and ((calling caller) with (code id identif$8))	US-PGPUB; USPAT	OR	ON	2013/03/22 16:21
S189	3	S172 and ((calling caller) with (reply$3 respon$5))	US-PGPUB; USPAT	OR	ON	2013/03/22 16:23
S190	1	S172 and ((calling caller) same called same (initial$5 code access))	US-PGPUB; USPAT	OR	ON	2013/03/22 16:24

S191	4	S172 and ((reply response) with (code id identif$8) with (reply$3 respon$5))	US-PGPUB; USPAT	OR	ON	2013/03/22 16:38
S193	5	(US-20040022237-$ or US-20080056235-$ or US-20020122391-$).did. or (US-6674745-$ or US-5454030-$).did.	US-PGPUB; USPAT	OR	ON	2013/03/23 12:05
S194	3	S193 and (ip adj2 address)	US-PGPUB; USPAT	OR	ON	2013/03/23 12:06
S195	0	S193 and (ip adj2 address with mobile)	US-PGPUB; USPAT	OR	ON	2013/03/23 12:07
S196	1	S193 and (ip adj2 address same mobile)	US-PGPUB; USPAT	OR	ON	2013/03/23 12:07
S197	3	S193 and (ip adj2 address)	US-PGPUB; USPAT	OR	ON	2013/03/23 12:08
S198	3	S193 and (ip adj1 address)	US-PGPUB; USPAT	OR	ON	2013/03/23 12:17
S199	1	S193 and (mobile same routed)	US-PGPUB; USPAT	OR	ON	2013/03/23 13:17
S200	2	S193 and (mobile same rout$4)	US-PGPUB; USPAT	OR	ON	2013/03/23 13:18
S201	2	US-20070112964-$.did.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/25 12:44
S202	2	"5519769".pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/25 12:55
S203	5	"13056277"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/11/09 13:30
S204	1	"14035806"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/11/09 13:30
S205	68	("20020116464" | "20040255126" | "20060072547" | "20060093135" | "20060153342" | "20080056302" | "20120099599" | "20120227101" | "5469497" | "5608786" | "5712907" | "5838682" | "5905736" | "5930343" | "5991291" | "6005926" | "20120170574" | "20040203582" | "20050287979" | "20070047548" | "20080167019" | "20080167020" | "20080187122" | "20100177671" | "20110201321" | "6993015" | "7400881" | "7573982" | "7738384" | "8041022" | "8189568" | "8437340" | "8462915" | "8605714" | "8750290" |	US-PGPUB; USPAT	OR	OFF	2015/11/09 14:04

		"7587036" | "20140349602" | "8111690" | "8713098" | "20090213839" | "20100083364" | "20100115018" | "20110208859" | "20110276903" | "20110276904" | "20110292929" | "20120089717" | "20130329722" | "20140016764" | "8078164" | "8396445" | "8634838" | "8903051" | "8909556" | "8938534" | "20050222952" | "6636833" | "7447707" | "7676431" | "7765261" | "8161078" | "8627211" | "20020122391" | "20060160565" | "20060177035" | "20060209768" | "20080037715" | "5146491").pn.				
S206	7	((Pentti) near2 (Huttunen)).INV.	US-PGPUB; USPAT	OR	OFF	2015/11/09 14:08
S208	4	((Emil) near2 (Malak)).INV.	US-PGPUB; USPAT	OR	OFF	2015/11/09 14:08
S209	19	((bjorsell) near2 (johan)).INV.	US-PGPUB; USPAT	OR	OFF	2015/11/09 14:09
S210	21	(digifonica).as.	US-PGPUB; USPAT	OR	ON	2015/11/09 14:09
S211	9	((Maksym) near2 (Sobolyev)).INV.	US-PGPUB; USPAT	OR	OFF	2015/11/09 14:10
S212	25	S206 S208 S209 S210 S211	US-PGPUB; USPAT	OR	OFF	2015/11/09 14:10
S213	267985	(370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728")	US-PGPUB; USPAT	OR	ON	2015/11/09 14:12
S214	9728	S213 and ((location$4 GPS) AND (ID identificat$4)).clm.	US-PGPUB; USPAT	OR	ON	2015/11/09 14:12
S215	1	S212 and ((location$4 GPS) AND (ID identificat$4)).clm.	US-PGPUB; USPAT	OR	ON	2015/11/09 14:12
S216	3	S212 and ((location$4 GPS) AND (ID identificat$4 key flag$4 number digit)).clm.	US-PGPUB; USPAT	OR	ON	2015/11/09 14:13
S217	1	"14035806"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/11/09 14:14
S218	22	(US-20070281705-$ or US-20130028251-$ or US-20090252159-$ or US-20080049732-$ or US-20070121590-$ or US-20040042607-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2015/11/09 15:24
S219	20	(US-20070281705-$ or US-	US-PGPUB;	OR	OFF	2015/11/09

		20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did.	USPAT; DERWENT			16:15
S220	22	(US-20070281705-$ or US-20090252159-$ or US-20130028251-$ or US-20040042607-$ or US-20080049732-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2015/11/09 16:15
S221	21	S220 and (locat$4 GPS)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 16:15
S222	17	S220 and (locat$4 GPS) AND (ID identificat$4 key$4 flag$4)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 16:16
S223	13	S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 16:16
S224	13	S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4) AND (mobile wireless cellular portable)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 16:16
S225	10	S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4) SAME (mobile wireless cellular portable)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 16:16
S226	10	S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4) SAME (mobile wireless cellular portable) AND (server$4 router$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT;	OR	OFF	2015/11/09 16:17

			IBM_TDB			
S227	9	S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4) SAME (mobile wireless cellular portable) SAME (server$4 router$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 16:17
S228	1	"14035806"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 16:28
S230	4816	H04W8/02.cpc.	US-PGPUB; USPAT; FPRS; EPO; JPO	OR	OFF	2015/11/09 16:29
S231	5819	H04W76/025.cpc.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 16:31
S233	5844	H04W76/021.cpc.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 16:32
S235	27	S230 AND (plac$3 WITH VOIP same call$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 16:33
S236	56	(S230 S231 S233) AND (plac$3 WITH VOIP same call$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 17:19
S237	48	(S230 S231 S233) AND (plac$3 SAME (wireless mobile cellular) WITH VOIP same call$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 17:20
S238	63	(S230 S231 S233) AND (plac$3 SAME (wireless mobile cellular) SAME (voice adj2 over adj2 internet VOIP) same call$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 17:20
S239	2	(US-20040022237-$ or US-20080056235-$).did.	US-PGPUB	OR	OFF	2015/11/09 17:34
S240	28	(S230 S231 S233) AND (plac$3 SAME (wireless mobile cellular) SAME (voice adj2 over adj2 internet VOIP) same call$3 AND (SMS short adj2 messag$4 adj2 serv$4))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT;	OR	OFF	2015/11/09 17:35

			IBM_TDB			
S241	4816	H04W8/02.cpc.	US-PGPUB; USPAT; FPRS; EPO; JPO	OR	OFF	2015/11/09 19:23
S242	5819	H04W76/025.cpc.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 19:23
S243	5844	H04W76/021.cpc.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 19:23
S244	976	(S241 S242 S243) AND (SMS short adj2 messag$4 adj2 servic$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 19:23
S245	397	(S241 S242 S243) AND ((VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 19:24
S246	259	(S241 S242 S243) AND ((VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3) AND server and controller)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 19:25
S247	29	(S241 S242 S243) AND ((VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3) AND server and controller and (location adj2 ID location adj2 identif$5))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 19:26
S248	1	"14035806"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 19:35
S249	1	S248 and (receiv$$ SAME user SAME identifier SAME destination)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 19:36
S250	1	S248 and (receiv$$ SAME user SAME identifier)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 19:36
S251	20	(US-20070281705-$ or US-	US-PGPUB;	OR	OFF	2015/11/29

		20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did.	USPAT; DERWENT			22:07
S252	252985	((H04L29/06027 OR H04L29/06 OR H04L29/1216 OR H04L61/157 OR H04L65/1069 OR H04L12/4608 OR H04L12/66 OR H04L29/12122 OR H04L61/1547 OR H04L65/1026 OR H04L65/103 OR H04L65/1036 OR H04L65/104 OR H04L67/14 OR H04L69/329 OR H04L12/1813 OR H04L12/5695 OR H04L12/6418 OR H04L2012/5626 OR H04L2012/563 OR H04L2012/5645 OR H04L2012/5667 OR H04L2012/5668 OR H04L2012/6472 OR H04L29/12094 OR H04L29/12584 OR H04L29/12896 OR H04L29/12933 OR H04L47/724 OR H04L47/803 OR H04L47/805 OR H04L61/1529 OR H04L61/2015 OR H04L61/2596 OR H04L61/605 OR H04L61/6068 OR H04L63/061 OR H04L63/0823 OR H04L63/126 OR H04L63/164 OR H04L65/1003 OR H04L65/1006 OR H04L65/1009 OR H04L65/1013 OR H04L65/1043 OR H04L65/1046 OR H04L65/1083 OR H04L65/1096 OR H04L65/4007 OR H04L65/403 OR H04L65/604 OR H04L65/605 OR H04L67/02 OR H04L67/04 OR H04L67/24 OR H04L67/34 OR H04L67/40 OR H04L69/08 OR H04M15/00 OR H04M7/006 OR H04M7/009 OR H04M11/066 OR H04M15/06 OR H04M15/08 OR H04M15/41 OR H04M15/43 OR H04M15/48 OR H04M15/56 OR H04M15/63 OR H04M15/68 OR H04M15/745 OR H04M15/8292 OR H04M1/2473 OR H04M1/2535 OR H04M2203/2022 OR H04M2203/4536 OR H04M2207/12 OR H04M2207/18 OR H04M2207/20 OR H04M2215/0108 OR H04M2215/0156 OR H04M2215/0164 OR H04M2215/0168 OR H04M2215/0196 OR H04M2215/202 OR H04M2215/62 OR H04M2215/68 OR H04M2242/14 OR H04M3/20 OR H04M3/42 OR H04M3/42008 OR H04M3/42042 OR H04M3/42068 OR H04M3/4228 OR H04M3/42314 OR H04M3/42348 OR H04M3/42365 OR H04M3/523 OR H04M3/53325 OR H04M3/545 OR H04M3/567 OR H04M7/00 OR	US-PGPUB; USPAT; DERWENT	OR	OFF	2015/11/29 22:25

		H04M7/0021 OR H04M7/0057 OR H04M7/123 OR H04M7/1245 OR H04M7/125 OR H04M7/1255 OR H04M7/126 OR H04M7/128 OR H04M7/1285 OR H04Q3/0025 OR H04Q3/0045 OR H04Q11/0478 OR H04Q2213/13098 OR H04Q2213/1324 OR H04Q2213/13288 OR G06Q20/3674 OR H04H60/43 OR H04H60/51 OR H04H60/91 OR H04N21/2665 OR H04N21/4126 OR H04N21/42203 OR H04N21/6581 OR H04N21/6582 OR H04N7/17318 OR H04W28/16 OR H04W4/06 OR H04W4/10 OR H04W4/22 OR H04W60/04 OR H04W76/005 OR H04W76/007 OR H04W76/02 OR H04W76/021 OR H04W76/025 OR H04W80/00 OR H04W80/04 OR H04W84/005 OR H04W88/08 OR H04W8/02 OR H04W8/085 OR Y10S379/90).CPC.)				
S253	1	"14035806"	US-PGPUB; USPAT; DERWENT	OR	OFF	2015/11/29 22:26
S254	6639	((H04W76/021 OR H04W76/025 OR H04W8/02).CPC.)	US-PGPUB; USPAT; DERWENT	OR	OFF	2015/11/29 22:45
S255	268033	(370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728")	US-PGPUB; USPAT	OR	ON	2015/11/29 23:32
S256	4832	H04W8/02.cpc.	US-PGPUB; USPAT; FPRS; EPO; JPO	OR	OFF	2015/11/29 23:32
S257	5881	H04W76/025.cpc.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/29 23:32
S258	5933	H04W76/021.cpc.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/29 23:32
S259	29	(S256 S257 S258) AND ((VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3) AND server and controller and (location adj2 ID location adj2 identif$5))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/29 23:32
S260	265	(S254 S255) AND ((VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3) AND server and controller and (location adj2 ID location adj2 identif$5))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/29 23:33
S261	95	(S254 S255) AND ((VoIP vo$1IP voice adj2 over adj (IP internet)) SAME (SMS	US-PGPUB; USPAT;	OR	OFF	2015/11/29 23:33

		short adj2 messag$4 adj2 servic$3) AND server and controller and (location adj2 ID location adj2 identif$5))	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S262	25	(S254 S255) AND ((VoIP vo$1IP voice adj2 over adj (IP internet)) SAME (SMS short adj2 messag$4 adj2 servic$3) AND server SAME (location adj2 ID location adj2 identif$5))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/29 23:33
S263	4	(S254 S255) AND ((VoIP vo$1IP voice adj2 over adj (IP internet)) SAME (SMS short adj2 messag$4 adj2 servic$3) SAME server SAME (location adj2 ID location adj2 identif$5))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/29 23:34
S264	6575	(reply with mobile) and (@ad <"20080728" @rlad <"20080728")	US-PGPUB; USPAT	OR	ON	2015/11/30 00:57
S265	2208	(reply with mobile same server) and (@ad <"20080728" @rlad <"20080728")	US-PGPUB; USPAT	OR	ON	2015/11/30 00:57
S266	168	(reply with mobile same server same sms) and (@ad <"20080728" @rlad <"20080728")	US-PGPUB; USPAT	OR	ON	2015/11/30 00:57
S267	35	(reply with mobile same server same sms same gateway) and (@ad <"20080728" @rlad <"20080728")	US-PGPUB; USPAT	OR	ON	2015/11/30 00:58
S268	25	(US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2015/11/30 02:11
S269	12	S268 and SMS	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/30 02:11
S270	12	S268 and (SMS same server$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/30 02:12
S271	1	S268 and (SMS same server$3 same locat$4 NEAR5 (ID address identificat$4))	US-PGPUB; USPAT; FPRS; EPO; JPO;	OR	OFF	2015/11/30 02:12

			DERWENT; IBM_TDB			

EAST Search History (Interference)

< This search history is empty>

11/ 30/ 2015 2:04:18 PM
C:\ Users\ mrahman6\ Documents\ EAST\ Workspaces\ 14035806_10098_MOBILE GATEWAY_DigifonicaI nternational.wsp

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 1 OF 1	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	6,445,694 B1	09-03-2002	Swartz, Robert	
	2	6,574,328 B1	06-03-2003	Wood et al.	
	3	6,785,266 B2	08-31-2004	Swartz, Robert	
	4	7,486,664 B2	02-03-2009	Swartz, Robert	
	5	7,512,117 B2	03-31-2009	Swartz, Robert	
	6	7,587,036 B2	09-08-2009	Wood et al.	
	7	7,764,777 B2	07-27-2010	Wood et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]

19562117
121614

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	"13056277"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/02/25 16:48
S2	34	("20060093135" | "20040022237" | "7055174" | "20060153342" | "20060258328" | "6724860" | "20070112964" | "7046658" | "20030200311" | "8116307" | "6151385" | "6597686" | "6744858" | "20060072550" | "20050025043" | "6963557" | "20040240439").PN.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/02/25 18:09
S3	2	"13056277"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/13 16:03
S4	34	("20060093135" | "20040022237" | "7055174" | "20060153342" | "20060258328" | "6724860" | "20070112964" | "7046658" | "20030200311" | "8116307" | "6151385" | "6597686" | "6744858" | "20060072550" | "20050025043" | "6963557" | "20040240439").PN.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/13 16:03
S5	34	("20060093135" | "20040022237" | "7055174" | "20060153342" | "20060258328" | "6724860" | "20070112964" | "7046658" | "20030200311" | "8116307" | "6151385" | "6597686" | "6744858" | "20060072550" | "20050025043" | "6963557" | "20040240439").PN.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/13 16:03
S6	4	((JOHAN) near2 (BJORSELL)).INV.	US-PGPUB; USPAT	OR	ON	2013/03/13 16:16
S7	3	((MAKSYM) near2 (SOBOLYEV)).INV.	US-PGPUB; USPAT	OR	ON	2013/03/13 16:16
S8	2	((PENTTI) near2 (HUTTUNEN)).INV.	US-PGPUB; USPAT	OR	ON	2013/03/13 16:17
S10	5	(digifonica).as.	US-PGPUB; USPAT	OR	ON	2013/03/13 16:21
S11	5	S6 or S7 or S8 or S10	US-PGPUB; USPAT	OR	ON	2013/03/13 16:21
S12	288340	(370/310-338,395.$.ccls. "379".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728")	US-PGPUB; USPAT	OR	ON	2013/03/13 16:29

S13	1195	((caller 'calling party')same (callee 'called party') same access same code same request same call$4)	US-PGPUB; USPAT	OR	ON	2013/03/13 16:33
S14	701	S12 and ((caller 'calling party')same (callee 'called party') same access same code same request same call$4)	US-PGPUB; USPAT	OR	ON	2013/03/13 16:33
S15	40	S12 and ((caller 'calling party')same (callee 'called party') same access same code same request same call$4 same server same rout$5)	US-PGPUB; USPAT	OR	ON	2013/03/13 16:34
S16	23	S12 and ((caller 'calling party')same (callee 'called party') same access same code same request same call$4 same server same rout$5 same (channel or (ID identifier identificat$5)))	US-PGPUB; USPAT	OR	ON	2013/03/13 16:36
S18	2	us-20070112964-$.did. us-20040022237-$.did.	US-PGPUB; USPAT	OR	ON	2013/03/13 16:49
S19	4	us-20070112964-$.did. us-20040022237-$.did.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/13 16:49
S20	245256	(370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728")	US-PGPUB; USPAT	OR	ON	2013/03/13 16:52
S21	1	S20 and ((access adj code) same (channel adj (identifier ID identification) same request))	US-PGPUB; USPAT	OR	ON	2013/03/13 16:53
S22	366030	("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728")	US-PGPUB; USPAT	OR	ON	2013/03/13 16:54
S24	354	S22 and ((access adj code) same (channel ID identification) same request)	US-PGPUB; USPAT	OR	ON	2013/03/13 16:55
S25	8	S22 and ((access adj code) same (channel with (ID identification)) same request)	US-PGPUB; USPAT	OR	ON	2013/03/13 16:56
S26	10	S22 and ((access adj2 code) same caller same callee)	US-PGPUB; USPAT	OR	ON	2013/03/13 16:59
S27	58	S22 and ((phone caller callee 'calling party') same server same router same (initiat$4 or setup or sett$4)same channel)	US-PGPUB; USPAT	OR	ON	2013/03/13 17:05
S28	10	S22 and ((phone caller callee "calling party" "called party" "called terminal" "calling party") same server same rout$5 same (call near5 (initiat$4 or setup)) same channel same request same (ID identif$7))	US-PGPUB; USPAT	OR	ON	2013/03/13 17:19
S29	257	S22 and (caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5)	US-PGPUB; USPAT	OR	ON	2013/03/13 17:27
S30	72	S22 and (caller callee "calling party" "called party" "called terminal" "calling	US-PGPUB; USPAT	OR	ON	2013/03/13 17:28

		party") same (call$3 near server) same (router gateway rout$3 adj control$5) same access$5				
S31	11	(US-20070281705-$ or US-20130028251-$ or US-20090252159-$ or US-20080049732-$ or US-20070121590-$ or US-20040042607-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$).did. or (US-7068684-$ or US-6963635-$).did.	US-PGPUB; USPAT	OR	ON	2013/03/13 19:13
S32	9	S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5))	US-PGPUB; USPAT	OR	ON	2013/03/13 19:13
S33	3	S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) and processor and interface and identification)	US-PGPUB; USPAT	OR	ON	2013/03/13 19:16
S34	7	S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) and channel and (initiat$5 setup) and (identi$7 ID))	US-PGPUB; USPAT	OR	ON	2013/03/13 19:18
S35	7	S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) and channel and (initiat$5 setup) and (identi$7 ID) and voice and (location local$3 geograph$5 area) and number)	US-PGPUB; USPAT	OR	ON	2013/03/13 19:21
S36	2	S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) and channel and (initiat$5 setup) and (identi$7 ID) and voice and (location local$3 geograph$5 area) and number and expir$5)	US-PGPUB; USPAT	OR	ON	2013/03/13 19:22
S37	2	S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) and channel and (initiat$5 setup) and (identi$7 ID) and voice and (location local$3 geograph$5 area) and number and expir$5 and (access adj code))	US-PGPUB; USPAT	OR	ON	2013/03/13 19:54
S39	3	"7079526".pn. us-20030114145-$.did. "6016319".pn.	US-PGPUB; USPAT	OR	ON	2013/03/14 11:27
S40	409041	("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 11:17

S43	21100	S40 and (initiat$4 adj3 call)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 11:21
S44	128	S40 and ((initiat$4 adj2 call) same (access adj2 code))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 11:22
S45	101	S40 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 11:23
S46	38	S40 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) and ((voice data) adj2 network))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 11:23
S47	33	S40 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) and ((non$voice data) adj2 network$5))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 11:25
S48	11	S40 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) and ((non$voice data) adj2 network$5) and (indentifier ID indentification))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 11:26
S49	35	("2006/0189337").URPN.	USPAT	OR	ON	2013/03/15 11:34
S50	5	S46 not S47	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 11:46
S51	63	S45 not S46	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 11:47
S52	409041	("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 11:52
S53	0	S52 and ((initiat$4 adj2 call) same (access adj2 code) same (data adj2 network$5))	US-PGPUB; USPAT; FPRS; EPO; JPO;	OR	ON	2013/03/15 11:52

			DERWENT; IBM_TDB			
S54	213	S52 and ((initiat$4 with call) same (access adj5 code) and (data with network$5))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 11:53
S55	159	S52 and ((initiat$4 with call) same (access adj5 code) and (data with network$5) and (wirless mobile handfree))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 11:54
S56	22	S52 and ((initiat$4 with call) same (access adj5 code) and (data with network$5) and (wirless mobile handfree) adj5 (IP or (internet adj2 protocol)))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 11:54
S57	20	S52 and ((initiat$4 with call) same (access adj5 code) and (data adj5 network$5) and (wirless mobile handfree) adj5 (IP or (internet adj2 protocol)))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 11:55
S58	17	(US-20070281705-$ or US-20130028251-$ or US-20090252159-$ or US-20080049732-$ or US-20070121590-$ or US-20040042607-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$).did. or (WO-2010012090-$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2013/03/15 12:01
S62	17	S58 and (server)	US-PGPUB; USPAT; DERWENT	OR	ON	2013/03/15 12:02
S63	11	S58 and (server and client)	US-PGPUB; USPAT; DERWENT	OR	ON	2013/03/15 12:03
S64	181	S52 and (channel same (ID indentifier indentification) same request same server same (router rout$5 gateway adj control$5))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 12:32
S65	27	S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway adj control$5))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 12:33
S67	154	S64 not S65	US-PGPUB; USPAT; FPRS; EPO; JPO;	OR	ON	2013/03/15 12:34

			DERWENT; IBM_TDB			
S68	32	S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 12:34
S69	2	S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) and (wireless adj2 ip adj4 network$5))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 12:35
S72	2	S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) AND (wireless adj2 ip adj4 network$5))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 12:36
S73	5	S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) AND (wireless with (ip or (internet adj2 protocol))))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 12:46
S74	12	S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) AND ((wireless mobile) with (ip or (internet adj2 protocol))))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 12:48
S76	7	S74 not S73	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 12:49
S77	432569	("370".clas. "709".clas. "455".clas. "725".clas.) and (@ad <"20080728" @rlad <"20080728")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 13:10
S79	2	S77 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) AND (wireless adj5 IP))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 13:11
S82	0	S79 and (POOL)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 15:32
S83	0	S79 and (indenfi$5)	US-PGPUB; USPAT; FPRS; EPO; JPO;	OR	ON	2013/03/15 15:33

			DERWENT; IBM_TDB			
S84	2	S79 and (identifi$5)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 15:33
S85	2	S79 and (identifi$5 and access)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 15:33
S86	0	S79 and (identifi$5 with access)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 15:33
S87	2	S79 and (identifi$5 and access and number)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 15:33
S88	2	S79 and (identifi$5 and access and number and associat$5)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 15:34
S89	2	S79 and (identifi$5 and access and number and associat$5 and select$5)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 15:34
S90	900	S52 and (pool database) with (access adj code phone adj number) with (associat$3 respective)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 15:57
S91	0	S52 and (pool database) with (access adj code) with (phone adj number) with (associat$3 respective) same (wireless IP)\	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 15:57
S92	0	S52 and (pool database) with (access adj code) with (phone adj number) with (associat$3 respective) and (wireless IP)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 15:58
S93	820	S52 and (pool database) with (access adj code phone adj number) with (associat$3 respective) and (wireless IP)	US-PGPUB; USPAT; FPRS; EPO; JPO;	OR	ON	2013/03/15 15:58

			DERWENT; IBM_TDB			
S94	181	S52 and (pool database) with (access adj code phone adj number) with (associat$3 respective) same (wireless IP)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 15:58
S95	8	S52 and (pool database) with (access adj code phone adj number) with (associat$3 respective) same (wireless with IP)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 15:59
S98	20	(US-20070281705-$ or US-20130028251-$ or US-20090252159-$ or US-20080049732-$ or US-20070121590-$ or US-20040042607-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$).did. or (WO-2010012090-$).did.	US-PGPUB; USPAT; DERWENT	OR	ON	2013/03/15 16:13
S99	11	S98 and (local with number)	US-PGPUB; USPAT; DERWENT	OR	ON	2013/03/15 16:17
S100	9	S98 and (local near7 number)	US-PGPUB; USPAT; DERWENT	OR	ON	2013/03/15 16:19
S101	7	S98 and (local near4 number)	US-PGPUB; USPAT; DERWENT	OR	ON	2013/03/15 16:19
S102	3	(US-20040022237-$ or US-20080056235-$).did. or (US-6674745-$).did.	US-PGPUB; USPAT	OR	ON	2013/03/15 16:49
S103	3	S102 AND (ip adj2 address)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 16:49
S104	0	S102 AND (ip adj2 address with mobile)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 16:50
S105	2	S102 AND (ip adj2 address with (receiv$5 reception))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 16:50
S106	3	S102 AND (ip adj2 address with server)	US-PGPUB; USPAT; FPRS;	OR	ON	2013/03/15 16:52

			EPO; JPO; DERWENT; IBM_TDB			
S107	0	S102 AND (ip adj2 address with server with receiv$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 16:53
S108	1	S102 AND (ip adj2 address with receiv$3 same server)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 16:53
S109	0	S102 AND ((ip adj address) with caller)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 16:54
S110	2	S102 AND ((ip adj address) with call$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/15 16:54
S111	1	"12116756"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 14:43
S112	3	(US-20040022237-$ or US-20080056235-$).did. or (US-6674745-$).did.	US-PGPUB; USPAT	OR	ON	2013/03/16 15:36
S115	1	S112 AND (identif$5 same wireless)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 15:37
S116	3	S112 AND (identif$5 and (mobile wireless))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 16:09
S117	1	S112 AND (identif$5 with (mobile wireless))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 16:09
S118	2	S112 AND (identif$5 same (mobile wireless))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 16:09

S119	3	S112 AND (identi$6 and (mobile wireless) and config$5)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 16:11
S122	3	S112 AND (identi$6 and (mobile wireless) and config$5 and user)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 16:11
S123	3	S112 AND (identi$6 and (mobile wireless) and config$5 and user and location)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 16:12
S124	2	S112 AND (identi$6 same (mobile wireless) and config$5 and user and location)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 16:12
S126	1	S112 AND (identi$6 same (mobile wireless) and (config$5 same location) and user)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 16:13
S127	1	S112 AND (identi$6 same (mobile wireless) same location and (config$5 same user))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 16:17
S128	2	S112 AND (location same identi$6 same user)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 16:50
S129	3	S112 AND (local same number)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 17:08
S130	2	S112 AND (local near5 number)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 17:12
S131	3	S112 AND (IP adj2 network same rout$5)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 17:19

S136	3	S112 AND (call same channel)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 17:39
S137	1	S112 AND (call same channel same establ$5)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 17:39
S141	1	S112 AND (establ$5 same call same channel)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 17:41
S142	2	S112 AND (call$5 same identif$6 same access)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 18:31
S143	1	S112 AND (call$5 same identif$6 same access same code)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/16 18:31
S144	3	(US-20040022237-$ or US-20080056235-$).did. or (US-6674745-$).did.	US-PGPUB; USPAT	OR	ON	2013/03/18 19:29
S145	3	S144 and (telephone same number)	US-PGPUB; USPAT	OR	ON	2013/03/18 19:30
S146	2	S144 and ((number or code) with match$4)	US-PGPUB; USPAT	OR	ON	2013/03/18 19:31
S147	3	S144 and ((number or code or ID or identifier) with called)	US-PGPUB; USPAT	OR	ON	2013/03/18 19:37
S148	2	S144 and ((number or code or ID or identifier) with channel)	US-PGPUB; USPAT	OR	ON	2013/03/18 19:45
S149	1	S144 and ((number or code) same (ID or identifier) same channel)	US-PGPUB; USPAT	OR	ON	2013/03/18 19:46
S150	2	S144 and ((number or code or ID or identifier) same channel same (called dialed))	US-PGPUB; USPAT	OR	ON	2013/03/18 19:49
S151	2	S144 and (channel same (called dialed))	US-PGPUB; USPAT	OR	ON	2013/03/18 19:51
S152	3	S144 and (TTL expir$5 timestap)	US-PGPUB; USPAT	OR	ON	2013/03/18 19:56
S153	3	S144 and (TTL expir$5 timestamp)	US-PGPUB; USPAT	OR	ON	2013/03/18 19:56
S154	2	S144 and (data non$1voice) with (reply respon$4)	US-PGPUB; USPAT	OR	ON	2013/03/18 20:09
S155	2	S144 and (data non$1voice) same (code numer ID identifier) same (reply respon$4)	US-PGPUB; USPAT	OR	ON	2013/03/18 20:10
S156	3	S144 and (data non$1voice) same	US-PGPUB;	OR	ON	2013/03/18

		(code numer ID identifier)	USPAT			20:12
S157	3	S144 and (data non$1voice) same (code numer ID identifier) same2 (reply$3 respon$5)	US-PGPUB; USPAT	OR	ON	2013/03/18 20:14
S158	3	S144 and (data non$1voice) same (code number ID identifier) same2 (reply$3 respon$5)	US-PGPUB; USPAT	OR	ON	2013/03/18 20:14
S159	3	S144 and (data non$1voice) same (code number ID identifier) same (reply$3 respon$5)	US-PGPUB; USPAT	OR	ON	2013/03/18 20:17
S160	1	S144 and code with (reply$3 respon$5)	US-PGPUB; USPAT	OR	ON	2013/03/18 20:19
S161	3	S144 and (number ID identifier) with (reply$3 respon$5)	US-PGPUB; USPAT	OR	ON	2013/03/18 20:21
S162	2	S144 and (access adj code)	US-PGPUB; USPAT	OR	ON	2013/03/18 20:23
S163	0	S144 and (access adj code) same (reply reponse respond$3)	US-PGPUB; USPAT	OR	ON	2013/03/18 20:23
S164	1	S144 and (access adj code) same2 (reply reponse respond$3)	US-PGPUB; USPAT	OR	ON	2013/03/18 20:24
S165	1	S144 and code same query	US-PGPUB; USPAT	OR	ON	2013/03/18 20:26
S166	0	"L29" and (data with interface with access adj code with (reply response respond$3))	US-PGPUB; USPAT	OR	ON	2013/03/18 20:26
S167	366130	("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728")	US-PGPUB; USPAT	OR	ON	2013/03/18 20:27
S168	6	S167 and (data with interface with access adj code with (reply response respond$3))	US-PGPUB; USPAT	OR	ON	2013/03/18 20:27
S169	1	S167 and (access adj code) with expir$5 with (establish$4 ssetup)	US-PGPUB; USPAT	OR	ON	2013/03/18 20:41
S170	3	S167 and (access adj code) with expir$5 with (establish$4 setup)	US-PGPUB; USPAT	OR	ON	2013/03/18 20:41
S171	8	S167 and (access adj code) with expir$5 with call$3	US-PGPUB; USPAT	OR	ON	2013/03/18 20:43
S172	5	(US-20040022237-$ or US-20080056235-$ or US-20020122391-$).did. or (US-6674745-$ or US-5454030-$).did.	US-PGPUB; USPAT	OR	ON	2013/03/22 14:46
S173	3	S172 and (dial$3 with number)	US-PGPUB; USPAT	OR	ON	2013/03/22 15:52
S174	2	S172 and (called with number with request)	US-PGPUB; USPAT	OR	ON	2013/03/22 15:58
S175	1	S172 and (calling with number with request)	US-PGPUB; USPAT	OR	ON	2013/03/22 16:00
S176	1	S172 and (calling with request)	US-PGPUB; USPAT	OR	ON	2013/03/22 16:01
S178	2	S172 and (request with access)	US-PGPUB; USPAT	OR	ON	2013/03/22 16:03
S179	4	S172 and (access near code)	US-PGPUB; USPAT	OR	ON	2013/03/22 16:04
S180	1	S172 and (access with soft)	US-PGPUB; USPAT	OR	ON	2013/03/22 16:06

S181	1	S172 and (access same soft same (caller calling))	US-PGPUB; USPAT	OR	ON	2013/03/22 16:08
S182	1	S172 and (access same request$3 same (caller calling))	US-PGPUB; USPAT	OR	ON	2013/03/22 16:09
S185	1	S172 and (reply with request$3)	US-PGPUB; USPAT	OR	ON	2013/03/22 16:15
S186	5	S172 and (reply response)	US-PGPUB; USPAT	OR	ON	2013/03/22 16:16
S187	4	S172 and ((reply response) with (code id identif$8))	US-PGPUB; USPAT	OR	ON	2013/03/22 16:19
S188	4	S172 and ((calling caller) with (code id identif$8))	US-PGPUB; USPAT	OR	ON	2013/03/22 16:21
S189	3	S172 and ((calling caller) with (reply$3 respon$5))	US-PGPUB; USPAT	OR	ON	2013/03/22 16:23
S190	1	S172 and ((calling caller) same called same (initial$5 code access))	US-PGPUB; USPAT	OR	ON	2013/03/22 16:24
S191	4	S172 and ((reply response) with (code id identif$8) with (reply$3 respon$5))	US-PGPUB; USPAT	OR	ON	2013/03/22 16:38
S193	5	(US-20040022237-$ or US-20080056235-$ or US-20020122391-$).did. or (US-6674745-$ or US-5454030-$).did.	US-PGPUB; USPAT	OR	ON	2013/03/23 12:05
S194	3	S193 and (ip adj2 address)	US-PGPUB; USPAT	OR	ON	2013/03/23 12:06
S195	0	S193 and (ip adj2 address with mobile)	US-PGPUB; USPAT	OR	ON	2013/03/23 12:07
S196	1	S193 and (ip adj2 address same mobile)	US-PGPUB; USPAT	OR	ON	2013/03/23 12:07
S197	3	S193 and (ip adj2 address)	US-PGPUB; USPAT	OR	ON	2013/03/23 12:08
S198	3	S193 and (ip adj1 address)	US-PGPUB; USPAT	OR	ON	2013/03/23 12:17
S199	1	S193 and (mobile same routed)	US-PGPUB; USPAT	OR	ON	2013/03/23 13:17
S200	2	S193 and (mobile same rout$4)	US-PGPUB; USPAT	OR	ON	2013/03/23 13:18
S201	2	US-20070112964-$.did.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/25 12:44
S202	2	"5519769".pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/03/25 12:55
S203	5	"13056277"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/11/09 13:30
S204	1	"14035806"	US-PGPUB; USPAT;	OR	ON	2015/11/09 13:30

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S205	68	("20020116464" | "20040255126" | "20060072547" | "20060093135" | "20060153342" | "20080056302" | "20120099599" | "20120227101" | "5469497" | "5608786" | "5712907" | "5838682" | "5905736" | "5930343" | "5991291" | "6005926" | "20120170574" | "20040203582" | "20050287979" | "20070047548" | "20080167019" | "20080167020" | "20080187122" | "20100177671" | "20110201321" | "6993015" | "7400881" | "7573982" | "7738384" | "8041022" | "8189568" | "8437340" | "8462915" | "8605714" | "8750290" | "7587036" | "20140349602" | "8111690" | "8713098" | "20090213839" | "20100083364" | "20100115018" | "20110208859" | "20110276903" | "20110276904" | "20110292929" | "20120089717" | "20130329722" | "20140016764" | "8078164" | "8396445" | "8634838" | "8903051" | "8909556" | "8938534" | "20050222952" | "6636833" | "7447707" | "7676431" | "7765261" | "8161078" | "8627211" | "20020122391" | "20060160565" | "20060177035" | "20060209768" | "20080037715" | "5146491").pn.	US-PGPUB; USPAT	OR	OFF	2015/11/09 14:04
S206	7	((Pentti) near2 (Huttunen)).INV.	US-PGPUB; USPAT	OR	OFF	2015/11/09 14:08
S208	4	((Emil) near2 (Malak)).INV.	US-PGPUB; USPAT	OR	OFF	2015/11/09 14:08
S209	19	((bjorsell) near2 (johan)).INV.	US-PGPUB; USPAT	OR	OFF	2015/11/09 14:09
S210	21	(digifonica).as.	US-PGPUB; USPAT	OR	ON	2015/11/09 14:09
S211	9	((Maksym) near2 (Sobolyev)).INV.	US-PGPUB; USPAT	OR	OFF	2015/11/09 14:10
S212	25	S206 S208 S209 S210 S211	US-PGPUB; USPAT	OR	OFF	2015/11/09 14:10
S213	267985	(370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728")	US-PGPUB; USPAT	OR	ON	2015/11/09 14:12
S214	9728	S213 and ((location$4 GPS) AND (ID identificat$4)).clm.	US-PGPUB; USPAT	OR	ON	2015/11/09 14:12
S215	1	S212 and ((location$4 GPS) AND (ID identificat$4)).clm.	US-PGPUB; USPAT	OR	ON	2015/11/09 14:12
S216	3	S212 and ((location$4 GPS) AND (ID identificat$4 key flag$4 number digit)).clm.	US-PGPUB; USPAT	OR	ON	2015/11/09 14:13
S217	1	"14035806"	US-PGPUB; USPAT; FPRS; EPO; JPO;	OR	ON	2015/11/09 14:14

			DERWENT; IBM_TDB			
S218	22	(US-20070281705-$ or US-20130028251-$ or US-20090252159-$ or US-20080049732-$ or US-20070121590-$ or US-20040042607-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2015/11/09 15:24
S219	20	(US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2015/11/09 16:15
S220	22	(US-20070281705-$ or US-20090252159-$ or US-20130028251-$ or US-20040042607-$ or US-20080049732-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2015/11/09 16:15
S221	21	S220 and (locat$4 GPS)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 16:15
S222	17	S220 and (locat$4 GPS) AND (ID identificat$4 key$4 flag$4)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 16:16
S223	13	S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT;	OR	OFF	2015/11/09 16:16

			IBM_TDB			
S224	13	S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4) AND (mobile wireless cellular portable)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 16:16
S225	10	S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4) SAME (mobile wireless cellular portable)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 16:16
S226	10	S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4) SAME (mobile wireless cellular portable) AND (server$4 router$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 16:17
S227	9	S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4) SAME (mobile wireless cellular portable) SAME (server$4 router$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 16:17
S228	1	"14035806"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 16:28
S230	4816	H04W8/02.cpc.	US-PGPUB; USPAT; FPRS; EPO; JPO	OR	OFF	2015/11/09 16:29
S231	5819	H04W76/025.cpc.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 16:31
S233	5844	H04W76/021.cpc.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 16:32
S235	27	S230 AND (plac$3 WITH VOIP same call$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 16:33
S236	56	(S230 S231 S233) AND (plac$3 WITH VOIP same call$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 17:19
S237	48	(S230 S231 S233) AND (plac$3 SAME	US-PGPUB;	OR	OFF	2015/11/09

		(wireless mobile cellular) WITH VOIP same call$3)	USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB			17:20
S238	63	(S230 S231 S233) AND (plac$3 SAME (wireless mobile cellular) SAME (voice adj2 over adj2 internet VOIP) same call$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 17:20
S239	2	(US-20040022237-$ or US-20080056235-$).did.	US-PGPUB	OR	OFF	2015/11/09 17:34
S240	28	(S230 S231 S233) AND (plac$3 SAME (wireless mobile cellular) SAME (voice adj2 over adj2 internet VOIP) same call$3 AND (SMS short adj2 messag$4 adj2 serv$4))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 17:35
S241	4816	H04W8/02.cpc.	US-PGPUB; USPAT; FPRS; EPO; JPO	OR	OFF	2015/11/09 19:23
S242	5819	H04W76/025.cpc.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 19:23
S243	5844	H04W76/021.cpc.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 19:23
S244	976	(S241 S242 S243) AND (SMS short adj2 messag$4 adj2 servic$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 19:23
S245	397	(S241 S242 S243) AND ((VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 19:24
S246	259	(S241 S242 S243) AND ((VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3) AND server and controller)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 19:25
S247	29	(S241 S242 S243) AND ((VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3) AND server and controller and (location adj2 ID location adj2 identif$5))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 19:26
S248	1	"14035806"	US-PGPUB;	OR	OFF	2015/11/09

			USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB			19:35
S249	1	S248 and (receiv$$ SAME user SAME identifier SAME destination)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 19:36
S250	1	S248 and (receiv$$ SAME user SAME identifier)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2015/11/09 19:36

EAST Search History (Interference)

<This search history is empty>

11/29/2015 10:06:19 PM
C:\Users\mrahman6\Documents\EAST\Workspaces\14035806_10098_MOBILE GATEWAY_DigifonicalInternational.wsp

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	~~2472~~ 2411
(Multiple sheets used when necessary)	Examiner	~~Kizou, Hassan~~ /M Mostazir Rahman/
SHEET 1 OF 1	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	5,719,926	2/17/1998	Hill, Vincent F.	
	2	5,722,067	2/24/1998	Fougnies et al.	
	3	5,915,093	6/22/1999	Berlin et al.	
	4	6,029,062	2/22/2000	Hanson, Daniel A.	
	5	6,249,573	6/19/2001	Hudson, Dan	
	6	7,454,200	11/18/2008	Cai et al.	
	7	8,630,234	1/14/2014	Björsell et al.	
	8	8,675,566	3/18/2014	Huttunen et al.	
	9	2005/0198499 A1	9/8/2005	Salapaka et al.	
	10	2010/0150138 A1	6/17/2010	Björsell et al.	
	11	2010/0150328 A1	6/17/2010	Perrault et al.	
	12	2010/0172345 A1	7/8/2010	Björsell et al.	
	13	2011/0122827 A1	5/26/2011	Björsell et al.	
	14	2012/0170574 A1	7/5/2012	Huttunen et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	15	EP 2 090 024 A0	8/19/2009	Björsell et al.		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	16	Extended European Search Report dated November 2, 2012 for European Application No. EP 07 855 436.7	
	17	Extended European Search Report dated December 20, 2013 for European Application No. EP 09 849 358.8.	

17502140
031714

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

T-Mobile Exhibit 1002

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14035806	BJÖRSELL ET AL.
	Examiner	Art Unit
	M MOSTAZIR RAHMAN	2411

CPC- SEARCHED		
Symbol	Date	Examiner
H04W76/021 OR H04W76/025 OR H04W8/02	11/29/2015	MR

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES		
Search Notes	Date	Examiner
EAST Search: 1)keyword search in USPAT, US-PGPUB, DERWENT, EPO, JPO, IBM_TDB;	11/29/2015	MR
class/subclasses with keyword, inventors, assignee	11/29/2015	MR
Inventor and assignee search in EAST, eDAN and PALM.	11/29/2015	MR
NPL Search: IP.COM	11/29/2015	MR
	11/29/2015	MR

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
Please see search report		11/29/2015	MR

/M MOSTAZIR RAHMAN/ Examiner, Art Unit 2411	

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Unassigned
SHEET 1 OF 7	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	4,916,491	4/10/1990	Katoh	
	2	4,992,971	2/12/1991	Hayashi	
	3	5,146,491	9/8/1992	Silver et al.	
	4	5,247,571	9/21/1993	Kay et al .	
	5	5,303,297	4/12/1994	Hillis	
	6	5,359,642	10/25/1994	Castro	
	7	5,425,085	6/13/1995	Weinberger et al.	
	8	5,440,621	8/8/1995	Castro	
	9	5,454,030	9/26/1995	de Oliveira et al.	
	10	5,469,497	11/21/1995	Pierce et al.	
	11	5,506,893	4/9/1996	Buscher et al.	
	12	5,519,769	5/21/1996	Weinberger et al.	
	13	5,559,871	9/24/1996	Smith	
	14	5,590,133	12/31/1996	Billstrom et al.	
	15	5,608,786	3/4/1997	Gordon	
	16	5,621,787	4/15/1997	McKoy et al.	
	17	5,633,913	5/27/1997	Talarmo	
	18	5,661,790	8/26/1997	Hsu	
	19	5,712,907	1/27/1998	Wegner et al.	
	20	5,724,355	3/3/1998	Bruno et al.	
	21	5,726,984	3/10/1998	Kubler et al.	
	22	5,737,414	4/7/1998	Walker et al.	
	23	5,751,961	5/12/1998	Smyk	
	24	5,793,762	8/11/1998	Penners et al.	
	25	5,799,072	8/25/1998	Vulcan et al.	
	26	5,802,502	9/1/1998	Gell et al.	
	27	5,825,863	10/20/1998	Walker	
	28	5,828,740	10/27/1998	Khuc et al.	

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

T-Mobile Exhibit 1002

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Unassigned
SHEET 2 OF 7	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	29	5,838,682	11/17/1998	Dekelbaum et al.	
	30	5,845,267	12/1/1998	Ronen	
	31	5,850,433	12/15/1998	Rondeau	
	32	5,864,610	1/26/1999	Ronen	
	33	5,867,495	2/2/1999	Elliott et al.	
	34	5,883,891	3/16/1999	Williams et al.	
	35	5,889,774	3/30/1999	Mirashrafi et al.	
	36	5,905,736	5/18/1999	Ronen et al.	
	37	5,907,547	5/25/1999	Foladare et al.	
	38	5,910,946	6/8/1999	Csapo	
	39	5,915,005	6/22/1999	He	
	40	5,923,659	7/13/1999	Curry et al.	
	41	5,930,343	7/27/1999	Vasquez	
	42	5,937,045	8/10/1999	Yaoya et al.	
	43	5,940,598	8/17/1999	Strauss et al.	
	44	5,953,504	9/14/1999	Sokal et al.	
	45	5,956,391	9/21/1999	Melen et al.	
	46	5,970,477	10/19/1999	Roden	
	47	5,974,043	10/26/1999	Solomon	
	48	5,991,291	11/23/1999	Asai et al .	
	49	6,005,926	12/21/1999	Mashinsky	
	50	6,014,379	1/11/2000	White et al.	
	51	6,021,126	2/1/2000	White et al.	
	52	6,052,445	4/18/2000	Bashoura et al.	
	53	6,058,300	5/2/2000	Hanson	
	54	6,069,890	5/30/2000	White et al.	
	55	6,073,013	6/6/2000	Agre et al.	
	56	6,078,647	6/20/2000	D'Eletto	
	57	6,104,704	8/15/2000	Buhler et al.	

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Unassigned
SHEET 3 OF 7	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	58	6,104,711	8/15/2000	Voit	
	59	6,115,737	9/5/2000	Ely et al.	
	60	6,128,304	10/3/2000	Gardell et al.	
	61	6,137,869	10/24/2000	Voit et al	
	62	6,141,404	10/31/2000	Westerlage et al.	
	63	6,151,385	11/21/2000	Reich et al.	
	64	6,188,752	2/13/2001	Lesley	
	65	6,282,574	8/28/2001	Voit	
	66	6,298,062	10/2/2001	Gardell et al.	
	67	6,351,464	2/26/2002	Galvin et al.	
	68	6,359,880	3/19/2002	Curry et al.	
	69	6,430,275	8/6/2002	Voit et al	
	70	6,507,644	1/14/2003	Henderson et al.	
	71	6,597,686	7/23/2003	Darek A Smyk	
	72	6,674,745	1/6/2004	Schuster et al.	
	73	6,724,860	4/20/2004	Stumer et al.	
	74	6,744,858	6/1/2004	Ryan et al.	
	75	6,766,159	7/20/2004	Lindholm	
	76	6,798,767	9/29/2004	Alexander et al.	
	77	6,819,929	11/16/2004	Antonucci et al.	
	78	6,954,453	10/11/2005	Schindler	
	79	6,963,557	11/8/2005	Mark Clinton Knox	
	80	7,046,658	5/16/2006	Vinay Kundaje	
	81	7,055,174	5/30/2006	Cope et al.	
	82	7,068,772	6/27/2006	Widger et al.	
	83	7,079,526	7/18/2006	Wipliez et al.	
	84	7,120,682	10/10/2006	Salama	
	85	7,212,522	5/1/2007	Shankar et al.	
	86	7,454,510	11/18/2008	Kleyman et al.	

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Unassigned
SHEET 4 OF 7	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	87	7,950,046	5/24/2011	Kropivny, Alexander	
	88	8,116,307	2/14/2012	Thesayi et al.	
	89	2002/0051518 A1	5/2/2002	Bondy et al.	
	90	2002/0116464 A1	8/22/2002	Mak	
	91	2002/0122391 A1	9/5/2002	Shalit, Andrew L.	
	92	2003/0200311 A1	10/23/2003	Baum	
	93	2003/0219103 A1	11/27/2003	Rao et al.	
	94	2004/0022237 A1	2/5/2004	Elliot et al.	
	95	2004/0157629 A1	8/12/2004	Kallio et al.	
	96	2004/0165709 a1	8/26/2004	Pence et al.	
	97	2004/0181599 A1	9/16/2004	Kreusch et al.	
	98	2004/0202295 A1	10/14/2004	Shen et al.	
	99	2004/0240439 A1	12/2/2004	Castleberry et al.	
	100	2004/0255126 A1	12/16/2004	Reith	
	101	2005/0025043 A1	2/3/2005	Mussman et al	
	102	2005/0083911 A1	4/21/2005	Grabelsky et al.	
	103	2005/0094651 A1	5/5/2005	Lutz et al.	
	104	2005/0169248 A1	8/4/2005	Truesdale et al.	
	105	2005/0174937 A1	8/11/2005	Scoggins et al.	
	106	2005/0177843 A1	8/11/2005	Williams	
	107	2006/0072547 A1	4/6/2006	Florkey et al.	
	108	2006/0072550 A1	4/6/2006	Davis et al.	
	109	2006/0093135 A1	5/4/2006	Fiatal et al.	
	110	2006/0111116 A1	5/25/2006	Palmer et al.	
	111	2006/0153342 A1	7/13/2006	Syouichi Sasaki	
	112	2006/0160565 A1	7/20/2006	Singh et al.	
	113	2006/0177035 A1	8/10/2006	Cope et al.	
	114	2006/0209768 A1	9/21/2006	Yan et al.	
	115	2006/0258328 A1	11/16/2006	Mario Francisco Godoy	

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Unassigned
SHEET 5 OF 7	Attorney Docket No.	SMARB19.004C1

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	116	2006/0264200 A1	11/23/2006	Laiho et al.	
	117	2007/0036143 A1	2/15/2007	Alt et al.	
	118	2007/0112964 A1	5/17/2007	Guedalia et al.	
	119	2007/0127676 A1	6/7/2007	Khadri	
	120	2007/0253418 A1	11/1/2007	Shiri et al.	
	121	2008/0037715 A1	2/14/2008	Prozeniuk et al.	
	122	2008/0056235 A1	3/6/2008	Albina et al.	
	123	2008/0063153 A1	3/13/2008	Krivorot et al.	
	124	2009/0028146 A1	1/29/2009	Kleyman et al.	
	125	8,422,507 B2	4/16/2013	Björsell et al.	
	126	8,537,805 B2	9/17/2013	Björsell et al.	
	127	8,542,815 B2	9/24/2013	Perreault et al.	
	128	2008/0056302 A1	3/6/2008	Erdal et al.	
	129	2009/0135735 A1	5/28/2009	Zhang et al.	
	130	2009/0141883 A1	6/4/2009	Bastien, Stephane	
	131	2009/0292539 A1	11/26/2009	Jaroker, Jon	
	132	2009/0325558 A1	12/31/2009	Pridmore et al.	
	133	2010/0086119 A1	4/8/2010	De Luca et al.	
	134	2010/0128729 A1	5/27/2010	Yazaki et al.	
	135	2012/0099599 A1	4/26/2012	Keränen et al.	
	136	2012/0227101 A1	9/6/2012	Yuan, Wei	
	137	2013/0114589 A1	5/9/2013	Fangman et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T^1
	138	CA 2,249,668	4/7/1999	Bruno et al.		
	139	EP 1 389 862 A1	2/18/2004	Shen et al.		
	140	EP 1 389 862 B1	11/3/2004	Shen et al.		

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T^1 - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Unassigned
SHEET 6 OF 7	Attorney Docket No.	SMARB19.004C1

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]
	141	WO 01/89145 A2	11/22/2001	Foti, Georges		
	142	WO 2007/044454 A2	4/19/2007	Croy et al.		
	143	WO 2008/052340 A1	5/8/2008	Perreault et al.		
	144	WO 2008/064481 A1	6/5/2008	Björsell et al.		
	145	WO 2008/116296 A1	10/2/2008	Björsell et al.		
	146	WO 2010/012090 A2	2/4/2010	Björsell et al.		
	147	WO 2011/032256 A1	3/24/2011	Huttunen, Pentti Kalevi		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	148	F. Baker et al. "RFC 3924 - Cisco Architecture for Lawful Intercept in IP Networks." October 2004.	
	149	Cisco. "Lawful Intercept Requirements Summary." http://www.faqs.org/rfcs/rfc3924.html. November 8, 2006.	
	150	Sippy SIP B2BUA. "About Sippy RTPproxy." http://www.rtpproxy.org. July 15, 2009.	
	151	ETSI Technical Specification. "Lawful Interception (LI); Handover Interface and Service-Specific Details (SSD) for IP delivery; Part 5: Service-specific details for IP Multimedia Services." Apr 2008, 25 pgs, v.2.3.1, France.	
	152	M. Handley et al. "RFC 2543 - SIP: Session Initiation Protocol." March 1999.	
	153	A copy of the International Search Report and Written Opinion of the International Searching Authority completed June 6, 2008 for related PCT/CA2008/000545.	
	154	A copy of the International Search Report and Written Opinion of the International Searching Authority completed February 6, 2008 for corresponding PCT/CA2007/001956.	
	155	A copy of the International Preliminary Report on Patentability mailed May 14, 2009 for corresponding PCT/CA2007/001956.	
	156	A copy of the International Search Report and Written Opinion of the International Searching Authority completed March 3, 2008 for related PCT/CA2007/002150.	
	157	A copy of the International Preliminary Report on Patentability mailed February 13, 2009 for related PCT/CA2007/002150.	
	158	A copy of the International Preliminary Report on Patentability and Written Opinion of the International Searching Authority mailed February 10, 2011 for related PCT Application No. PCT/CA2009/001062, February 01, 2011.	

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

PTO/SB/08 Equivalent

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2413
(Multiple sheets used when necessary)	Examiner	Unassigned
SHEET 7 OF 7	Attorney Docket No.	SMARB19.004C1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	159	A copy of the Written Opinion and International Search Report completed on June 18, 2010 for related PCT Application No. PCT/CA2009/001317.	
	160	A copy of the International Search Report and Written Opinion mailed on March 12, 2010 for corresponding PCT Application No. PCT/CA2009/001062.	
	161	A copy of the International Preliminary Report on Patentability issued on September 29, 2009 for PCT/CA2008/000545.	
	162	A copy of the International Preliminary Report on Patentability issued on March 20, 2012 for PCT/CA2009/001317.	
	163	Townsley, et al.; "RFC 2661 - Layer Two Tunneling Protocol 'L2TP' ", August 1999.	
	164	IP2Location, http://www.ip2location.com/; printed June 20, 2012.	
	165	DOTS IP Address Validation, "Overview", http://www.serviceobjects.com/products/dots_ipgeo.asp; printed June 21, 2012.	
	166	List of North American Numbering Plan area codes, http://en.wikipedia.org/wiki/List_of_NANP_area_codes; printed June 20, 2012.	
	167	DOTS Phone Exchange, "Overview", http://www.serviceobjects.com/demos/PhoneExchangeDemo.asp (URL no longer valid, current URL is http://www.serviceobjects.com/products/phone/phone-exchange); printed June 21, 2012.	
	168	Rosenberg, et al.; "RFC 3261 - SIP: Session Initiation Protocol", June 2002.	
	169	Lind AT&T S: "ENUM Call Flows for VoIP Interworking; draft-lind-enum-callflows-03.txt", 20020201, no. 3, 1 February 2002, pages 1-17, XP015004214, ISSN: 0000-0004.	
	170	IETF ENUM WG R STASTNY OEFEG INFORMATIONAL NUMBERING FOR VOIP AND OTHER IP COMMUNICATIONS: "Numbering for ViOP and other IP Communications, draft-stastny-enum-numbering-voip-00.txt", 20031001, 1 October 2003, pages 1-43, XP015035676, ISSN: 0000-0004.	
	171	Supplementary European Search Report for European Application No. 07816106, dated June 18, 2012.	
	172	Supplementary European Search Report for European Application No. 07816106, dated November 2, 2012.	
	173	Wikipedia, "International mobile subscriber identity (IMSI)," http://en.wikipedia.org/wiki/IMSI, 7-16-2013.	
	174	Wikipedia, "Roaming," http://en.wikipedia.org/wiki/Roaming, 7-16-2013.	

16911904
122013

Examiner Signature	/M Mostazir Rahman/	Date Considered	11/09/2015

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

T-Mobile Exhibit 1002

To: jayna.cartee@knobbe.com,efiling@knobbe.com,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 20995

Jan 14, 2016 12:05:00 PM

Dear PAIR Customer:

KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614
UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 20995 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

Disclaimer:
The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

Application	Document	Mailroom Date	Attorney Docket No.
14035806	CTNF	01/14/2016	DIGIF.004C1
	892	01/14/2016	DIGIF.004C1
	1449	01/14/2016	DIGIF.004C1
	1449	01/14/2016	DIGIF.004C1
	1449	01/14/2016	DIGIF.004C1
	1449	01/14/2016	DIGIF.004C1
	1449	01/14/2016	DIGIF.004C1
	1449	01/14/2016	DIGIF.004C1
	1449	01/14/2016	DIGIF.004C1
	1449	01/14/2016	DIGIF.004C1
	1449	01/14/2016	DIGIF.004C1

To view your correspondence online or update your email addresses, please visit us anytime at https://sportal.uspto.gov/secure/myportal/privatepair.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

UNITED STATES PATENT AND TRADEMARK OFFICE
COMMISSIONER FOR PATENTS
P.O.BOX 1450
ALEXANDRIA VA 22313-1451

PRESORTED
FIRST-CLASS MAIL
U.S. POSTAGE PAID
POSTEDIGITAL
NNNNN

KNOBBE MARTENS OLSON & BEAR LLP
2040 MAIN STREET
FOURTEENTH FLOOR
IRVINE, CA 92614

Courtesy Reminder for
Application Serial No: 14/035,806

Attorney Docket No: DIGIF.004C1
Customer Number: 20995
Date of Electronic Notification: 01/14/2016

This is a courtesy reminder that new correspondence is available for this application. If you have not done so already, please review the correspondence. The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

An email notification regarding the correspondence was sent to the following email address(es) associated with your customer number:

jayna.cartee@knobbe.com
efiling@knobbe.com

To view your correspondence online or update your email addresses, please visit us anytime at **https://sportal.uspto.gov/secure/myportal/privatepair.** If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov or call 1-866-217-9197.

T-Mobile Exhibit 1002

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2411
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 1 OF 3	Attorney Docket No.	DIGIF.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	1	**DOCUMENT TITLE:** COMPLAINT FOR PATENT INFRINGEMENT [JURY DEMAND] ; **CASE TITLE:** VOIP-PAL.COM, INC., a Nevada corporation, Plaintiff, v. VERIZON WIRELESS SERVICES, LLC, a Delaware limited liability corporation; VERIZON COMMUNICATIONS, INC., a Delaware corporation; AT&T, INC., a Delaware corporation; AT&T CORP., a Delaware corporation; and DOES I through X, inclusive, Defendants; **CASE NO:** 2:16-CV-00271; **COURT:** UNITED STATES DISTRICT COURT DISTRICT OF NEVADA. Attachments: TABLE OF EXHIBITS; **Exhibit A**; **Exhibit B**; **Exhibit C**; **Exhibit D**; **Exhibit E**; Chart 1 to Exhibit E; Chart 2 to Exhibit E; Chart 3 to Exhibit E; Chart 4 to Exhibit E; Chart 5 to Exhibit E; Chart 6 to Exhibit E; **Exhibit F;** Chart 1 to Exhibit F; Chart 2 to Exhibit F; Chart 3 to Exhibit F; Chart 4 to Exhibit F; Chart 5 to Exhibit F; Chart 6 to Exhibit F; **Exhibit G**; **Exhibit H;** *and* Addendum 1 to Exhibit H.	
	2	**DOCUMENT TITLE:** COMPLAINT FOR PATENT INFRINGEMENT [JURY DEMAND] ; **CASE TITLE:** VOIP-PAL.COM, INC., a Nevada corporation, Plaintiff, v. APPLE, INC., a California corporation; Defendants; **CASE NO:** 2:16-CV-00260; **COURT:** UNITED STATES DISTRICT COURT DISTRICT OF NEVADA. Attachments: TABLE OF EXHIBITS; **Exhibit A**; **Exhibit B**; **Exhibit C**; **Exhibit D**; Chart 1 to Exhibit D; Chart 2 to Exhibit D; Chart 3 to Exhibit D; Chart 4 to Exhibit D; **Exhibit E**; **Exhibit F**; *and* Addendum 1 to Exhibit F.	
	3	Letter dated NOVEMBER 30, 2015, from VoIP-Pal.com Inc. giving notice and inviting the company listed herein below to contact VoIP-Pal.com about U.S. Patents 9,179,005 and 8,542,815 and related patents listed in the accompanying Attachment A. Sent to the following company: **Apple Inc. *in the* U.S.**	
	4	Letter dated DECEMBER 1, 2015, from VoIP-Pal.com Inc. giving notice and inviting the company listed herein below to contact VoIP-Pal.com about U.S. Patents 9,179,005 and 8,542,815 and related patents listed in the accompanying Attachment A. Sent to the following company: **Verizon Communications *in the* U.S.**	

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2411
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 2 OF 3	Attorney Docket No.	DIGIF.004C1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	5	Letters dated DECEMBER 18, 2015, from VoIP-Pal.com Inc. giving notice and inviting the companies listed herein below to contact VoIP-Pal.com about U.S. Patents 9,179,005 and 8,542,815 and related patents listed in the accompanying Attachment A. *(Please Note: Attachment A is attached here only to the first letter.)* Sent to the following companies: **Airtel *in* India;** **Alcatel-Lucent *in* France;** **Avaya Inc. *in the* U.S.;** **AT&T *in the* U.S.;** **Blackberry *in* Canada;** **Cable One *in the* U.S.;** **CenturyLink *in the* U.S.;** **Charter Communications *in the U.S.;*** **Cisco Systems *in the* U.S.;** **Comcast *in the* U.S.;** **Cox Communications *in the* U.S.;** **Cricket Wireless *in the* U.S.;** **Facebook *in the* U.S.;** **Freedom Pop *in the* U.S.;** **Frontier Communications *in the* U.S.;** **Google Inc. *in the* U.S.;** **HP *in the* U.S.;** **Juniper Networks *in the* U.S.;** **LoopPay, Inc. *in the* U.S.;** **Magic Jack *in the* U.S.;** **MetroPCS *in the* U.S.;** **Ooma *in the* U.S.;** **PayPal *in the* U.S.;** **Republic Wireless *in the* U.S.;** **Rok Mobile *in the* U.S.;** **Samsung Electronics- America *in the* U.S.;** **ShoreTel, Inc. *in the* U.S.;** **Siemens *in* Germany;** **Skype USA *in the* U.S.;** **Sprint *in the* U.S.;** **Square Cash *in the* U.S.;** **Suddenlink Communications *in the* U.S.;** **Talktone *in the* U.S.;** **Tango *in the* U.S.;** **Time Warner Cable *in the* U.S.;** **T-Mobile *in the* U.S.;** **Twitter *in the* U.S.;** **US Cellular *in the* U.S.;** **Venmo *in the* U.S.;** **Virgin Mobile USA *in the* U.S.;** **Vodafone *in the* UK; *and*** **Vonage *in the* U.S.**	

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2411
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 3 OF 3	Attorney Docket No.	DIGIF.004C1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	6	Letters dated JANUARY 4, 2016, from VoIP-Pal.com Inc. giving notice and inviting the companies listed herein below to contact VoIP-Pal.com about U.S. Patents 9,179,005 and 8,542,815 and related patents listed in the accompanying Attachment A. *(Please Note: Attachment A is attached here only to the first letter.)* Sent to the following companies: **Rogers Communications Inc. *in* Canada; Shaw Cable *in* Canada; Walmart *in* Alaska; *and* WIND Mobile *in* Canada.**	
	7	Letters dated JANUARY 21, 2016, from VoIP-Pal.com Inc. giving notice and inviting the companies listed herein below to contact VoIP-Pal.com about U.S. Patents 9,179,005 and 8,542,815 and related patents listed in the accompanying Attachment A. *(Please Note: Attachment A is attached here only to the first letter.)* Sent to the following companies: **Alibaba (China) Co., Ltd *in* China; Comwave Telecommunications *in* Canada; *and* Intel *in the* U.S.**	
	8	Letters dated FEBRUARY 2, 2016, from VoIP-Pal.com Inc. giving notice and inviting the companies listed herein below to contact VoIP-Pal.com about U.S. Patents 9,179,005 and 8,542,815 and related patents listed in the accompanying Attachment A. *(Please Note: Attachment A is attached here only to the first letter.)* Sent to the following companies: **Netflix Inc. *in the* U.S.; Skype Technologies *in the* U.S.; *and* WhatsApp Inc. *in the* U.S.**	

22970393
032316

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.*	

T[1] - Place a check mark in this area when an English language Translation is attached.

Electronic Patent Application Fee Transmittal

Application Number:	14035806
Filing Date:	24-Sep-2013
Title of Invention:	MOBILE GATEWAY
First Named Inventor/Applicant Name:	Johan Emil Viktor Björsell
Filer:	John M Carson/Norman Green
Attorney Docket Number:	DIGIF.004C1

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

T-Mobile Exhibit 1002

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Submission- Information Disclosure Stmt	2806	1	90	90
		Total in USD ($)		**90**

Electronic Acknowledgement Receipt

EFS ID:	25288683
Application Number:	14035806
International Application Number:	
Confirmation Number:	5562
Title of Invention:	MOBILE GATEWAY
First Named Inventor/Applicant Name:	Johan Emil Viktor Björsell
Customer Number:	20995
Filer:	John M Carson/Norman Green
Filer Authorized By:	John M Carson
Attorney Docket Number:	DIGIF.004C1
Receipt Date:	23-MAR-2016
Filing Date:	24-SEP-2013
Time Stamp:	19:12:36
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		IDS_DIGIF_004C1_03_23_2016.pdf	244160 157f7ccde53c5697a3a4bcfa00d574bddaca471a	yes	5

T-Mobile Exhibit 1002

	Multipart Description/PDF files in .zip description					
	Document Description		**Start**		**End**	
	Transmittal Letter		1		2	
	Information Disclosure Statement (IDS) Form (SB08)		3		5	
Warnings:						
Information:						
2	Non Patent Literature	Ref1a_COMPLAINT_with_Exhibits_VERIZON_and_ATandT.pdf	16311972 19825a3f9961f26f006947b66dbe289637da137f	no	76	
Warnings:						
Information:						
3	Non Patent Literature	Ref1b_COMPLAINT_with_Exhibits_VERIZON_and_ATandT.pdf	17590450 58e713e131d8a456a8bf3648ee540563f0ac730c	no	80	
Warnings:						
Information:						
4	Non Patent Literature	Ref1c_COMPLAINT_with_Exhibits_VERIZON_and_ATandT.pdf	21918721 0ca87bdcc6ffec12b20ba16a271d9724b0690484	no	50	
Warnings:						
Information:						
5	Non Patent Literature	Ref1d_COMPLAINT_with_Exhibits_VERIZON_and_ATandT.pdf	23575414 cbe29f333b4cac7c451d3cfcc845eb00db8a526b	no	58	
Warnings:						
Information:						
6	Non Patent Literature	Ref1e_COMPLAINT_with_Exhibits_VERIZON_and_ATandT.pdf	23800069 86ee8d69381ef492b6113edca7dc13b6aa9adcb6	no	55	
Warnings:						
Information:						
7	Non Patent Literature	Ref1f_COMPLAINT_with_Exhibits_VERIZON_and_ATandT.pdf	19938392 fc114102da1f13767a3a1b97fec7de52d127f901	no	48	
Warnings:						
Information:						
8	Non Patent Literature	Ref1g_COMPLAINT_with_Exhibits_VERIZON_and_ATandT.pdf	21125145 c8e56b758e781b1f082a2ba2d08fb19d1116d2d5	no	60	
Warnings:						
Information:						

9	Non Patent Literature	Ref1h_COMPLAINT_with_Exhibits_VERIZON_and_ATandT.pdf	21585913 54196a2c061100c60a50088fb9aa6c37bd3ab434	no	32
Warnings:					
Information:					
10	Non Patent Literature	Ref1i_COMPLAINT_with_Exhibits_VERIZON_and_ATandT.pdf	24160815 09fa78065dbac86779a9c6084157fcb5fa75669c	no	59
Warnings:					
Information:					
11	Non Patent Literature	Ref2a_COMPLAINT_with_Exhibits_APPLE.pdf	18504899 46093507af03c37844ccd4db5b81a20dbf12c329	no	50
Warnings:					
Information:					
12	Non Patent Literature	Ref2b_COMPLAINT_with_Exhibits_APPLE.pdf	22118881 5e06fd162e2ab5a7a17a4f2de574bf22e76d3cb0	no	20
Warnings:					
Information:					
13	Non Patent Literature	Ref2c_COMPLAINT_with_Exhibits_APPLE.pdf	14179093 5e8aa7809a1d28e674aa8dead7dd56716befbf86	no	40
Warnings:					
Information:					
14	Non Patent Literature	Ref2d_COMPLAINT_with_Exhibits_APPLE.pdf	25727310 e1ca78b598546b0f41df7ca2ab13f05079741d46	no	23
Warnings:					
Information:					
15	Non Patent Literature	Ref2e_COMPLAINT_with_Exhibits_APPLE.pdf	19921789 d6bfbbdc1801cda19ddecb3beb9b5f43aa782b40	no	38
Warnings:					
Information:					
16	Non Patent Literature	Ref2f_COMPLAINT_with_Exhibits_APPLE.pdf	24830002 c286a175d1e68b0a2de1f33f0c5b52ef37780643	no	36
Warnings:					
Information:					
17	Non Patent Literature	Ref2g_COMPLAINT_with_Exhibits_APPLE.pdf	20780930 a13c385804b7acf9563cdafd21b1d9668078c1f8	no	53
Warnings:					
Information:					

18	Non Patent Literature	Ref2h_COMPLAINT_with_Exhibits_APPLE.pdf	22069665 beab7c2e27514a8d808b3b9681370bcbdd761265	no	20
Warnings:					
Information:					
19	Non Patent Literature	Ref2i_COMPLAINT_with_Exhibits_APPLE.pdf	18082167 2f2c1ae3851823b4b19410a82279a7040851e9cb	no	50
Warnings:					
Information:					
20	Non Patent Literature	Ref2j_COMPLAINT_with_Exhibits_APPLE.pdf	23851865 6b8eba62e73f55bca2a0c183b4a44a2cca3a5d20	no	46
Warnings:					
Information:					
21	Non Patent Literature	Ref2k_COMPLAINT_with_Exhibits_APPLE.pdf	23491892 12ce5dd2ce17a2b64c6e3be394a0d8109142d28c	no	56
Warnings:					
Information:					
22	Non Patent Literature	Ref3_Apple_Notice_Letter_11_30_2015.pdf	1756704 6f4b976604d0733b053a36b901d356cf242356b3	no	4
Warnings:					
Information:					
23	Non Patent Literature	Ref4_Verizon_Notice_Letter_12_01_2015.pdf	1417540 a811e1dfc81de918fc8ab7ede6bb3a4f4c2a8a27	no	4
Warnings:					
Information:					
24	Non Patent Literature	Ref5a_Notice_Letters_12_18_2015.pdf	18101282 d9ad41860164670d615bcdf1b5b19b609b05af5e	no	24
Warnings:					
Information:					
25	Non Patent Literature	Ref5b_Notice_Letters_12_18_2015.pdf	15588035 769830a6e40f266cf3f6dbbf0c315d0a28c6607a	no	20
Warnings:					
Information:					
26	Non Patent Literature	Ref6_Notice_Letters_01_04_2016.pdf	2318011 b4b0dd8723f3ed80c665602a2c6ceebc73a96f9f	no	6
Warnings:					
Information:					

27	Non Patent Literature	Ref7_Notice_Letters_01_21_2016.pdf	5328378 951579a2536d8018c9977f867056af315d9d06cb	no	5
Warnings:					
Information:					
28	Non Patent Literature	Ref8_Notice_Letters_02_04_2016.pdf	5033977 20c14e45b871e96cbee9fb59413ca09f18d8b83c	no	5
Warnings:					
Information:					
29	Fee Worksheet (SB06)	fee-info.pdf	30732 bb3e6a634e1461556f6716c6bab0516ed83b3b75	no	2
Warnings:					
Information:					
			Total Files Size (in bytes):	473384203	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

<u>New Applications Under 35 U.S.C. 111</u>
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

<u>National Stage of an International Application under 35 U.S.C. 371</u>
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

<u>New International Application Filed with the USPTO as a Receiving Office</u>
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

INFORMATION DISCLOSURE STATEMENT

First Inventor	:	Johan Emil Viktor Björsell, et al.
App. No.	:	14/035,806
Filed	:	September 24, 2013
For	:	MOBILE GATEWAY
Examiner	:	Rahman, M. Mostazir
Art Unit	:	2411
Conf. No.	:	5562

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

References and Listing

Pursuant to 37 CFR 1.56, an Information Disclosure Statement listing references is provided herewith. Copies of any listed foreign and non-patent literature references are being submitted.

The Examiner will please note that the references numbered 5-8 list Letters to various companies "giving notice". Each of these Letters when mailed was accompanied by an Attachment A consisting of a list of related patents. This is indicated for each Letter, however, in the interest of avoiding duplicative and cumulative content, Attachment A has been uploaded to the USPTO EFS website with only the first Letter for each new date.

No Disclaimers

To the extent that anything in the Information Disclosure Statement or the listed references could be construed as a disclaimer of any subject matter supported by the present application, Applicant hereby rescinds and retracts such disclaimer.

Timing of Disclosure

This Information Disclosure Statement is being filed after receipt of a First Office Action, but before the mailing date of a Final Action and before the mailing date of a Notice of Allowance. This Statement is accompanied by the fees set forth in 37 CFR 1.17(p). The

T-Mobile Exhibit 1002

Commissioner is hereby authorized to charge any additional fees which may be required or to credit any overpayment to Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 3/23/16

By: _____

John M. Carson
Registration No. 34,303
Attorney of Record
Customer No. 20995
(858) 707-4000

IDS
22970429
032316

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2411
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 1 OF 3	Attorney Docket No.	DIGIF.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	1	**DOCUMENT TITLE:** COMPLAINT FOR PATENT INFRINGEMENT [JURY DEMAND] ; **CASE TITLE:** VOIP-PAL.COM, INC., a Nevada corporation, Plaintiff, v. VERIZON WIRELESS SERVICES, LLC, a Delaware limited liability corporation; VERIZON COMMUNICATIONS, INC., a Delaware corporation; AT&T, INC., a Delaware corporation; AT&T CORP., a Delaware corporation; and DOES I through X, inclusive, Defendants; **CASE NO:** 2:16-CV-00271; **COURT:** UNITED STATES DISTRICT COURT DISTRICT OF NEVADA. Attachments: TABLE OF EXHIBITS; **Exhibit A**; **Exhibit B**; **Exhibit C**; **Exhibit D**; **Exhibit E**; Chart 1 to Exhibit E; Chart 2 to Exhibit E; Chart 3 to Exhibit E; Chart 4 to Exhibit E; Chart 5 to Exhibit E; Chart 6 to Exhibit E; **Exhibit F;** Chart 1 to Exhibit F; Chart 2 to Exhibit F; Chart 3 to Exhibit F; Chart 4 to Exhibit F; Chart 5 to Exhibit F; Chart 6 to Exhibit F; **Exhibit G**; **Exhibit H;** *and* Addendum 1 to Exhibit H.	
	2	**DOCUMENT TITLE:** COMPLAINT FOR PATENT INFRINGEMENT [JURY DEMAND] ; **CASE TITLE:** VOIP-PAL.COM, INC., a Nevada corporation, Plaintiff, v. APPLE, INC., a California corporation; Defendants; **CASE NO:** 2:16-CV-00260; **COURT:** UNITED STATES DISTRICT COURT DISTRICT OF NEVADA. Attachments: TABLE OF EXHIBITS; **Exhibit A**; **Exhibit B**; **Exhibit C**; **Exhibit D**; Chart 1 to Exhibit D; Chart 2 to Exhibit D; Chart 3 to Exhibit D; Chart 4 to Exhibit D; **Exhibit E**; **Exhibit F**; *and* Addendum 1 to Exhibit F.	
	3	Letter dated NOVEMBER 30, 2015, from VoIP-Pal.com Inc. giving notice and inviting the company listed herein below to contact VoIP-Pal.com about U.S. Patents 9,179,005 and 8,542,815 and related patents listed in the accompanying Attachment A. Sent to the following company: **Apple Inc. *in the* U.S.**	
	4	Letter dated DECEMBER 1, 2015, from VoIP-Pal.com Inc. giving notice and inviting the company listed herein below to contact VoIP-Pal.com about U.S. Patents 9,179,005 and 8,542,815 and related patents listed in the accompanying Attachment A. Sent to the following company: **Verizon Communications *in the* U.S.**	

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2411
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 2 OF 3	Attorney Docket No.	DIGIF.004C1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	5	Letters dated DECEMBER 18, 2015, from VoIP-Pal.com Inc. giving notice and inviting the companies listed herein below to contact VoIP-Pal.com about U.S. Patents 9,179,005 and 8,542,815 and related patents listed in the accompanying Attachment A. *(Please Note: Attachment A is attached here only to the first letter.)* Sent to the following companies: **Airtel *in* India;** **Alcatel-Lucent *in* France;** **Avaya Inc. *in the* U.S.;** **AT&T *in the* U.S.;** **Blackberry *in* Canada;** **Cable One *in the* U.S.;** **CenturyLink *in the* U.S.;** **Charter Communications *in the U.S.;*** **Cisco Systems *in the* U.S.;** **Comcast *in the* U.S.;** **Cox Communications *in the* U.S.;** **Cricket Wireless *in the* U.S.;** **Facebook *in the* U.S.;** **Freedom Pop *in the* U.S.;** **Frontier Communications *in the* U.S.;** **Google Inc. *in the* U.S.;** **HP *in the* U.S.;** **Juniper Networks *in the* U.S.;** **LoopPay, Inc. *in the* U.S.;** **Magic Jack *in the* U.S.;** **MetroPCS *in the* U.S.;** **Ooma *in the* U.S.;** **PayPal *in the* U.S.;** **Republic Wireless *in the* U.S.;** **Rok Mobile *in the* U.S.;** **Samsung Electronics- America *in the* U.S.;** **ShoreTel, Inc. *in the* U.S.;** **Siemens *in* Germany;** **Skype USA *in the* U.S.;** **Sprint *in the* U.S.;** **Square Cash *in the* U.S.;** **Suddenlink Communications *in the* U.S.;** **Talktone *in the* U.S.;** **Tango *in the* U.S.;** **Time Warner Cable *in the* U.S.;** **T-Mobile *in the* U.S.;** **Twitter *in the* U.S.;** **US Cellular *in the* U.S.;** **Venmo *in the* U.S.;** **Virgin Mobile USA *in the* U.S.;** **Vodafone *in the* UK; *and*** **Vonage *in the* U.S.**	

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

T-Mobile Exhibit 1002

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2411
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 3 OF 3	Attorney Docket No.	DIGIF.004C1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	6	Letters dated JANUARY 4, 2016, from VoIP-Pal.com Inc. giving notice and inviting the companies listed herein below to contact VoIP-Pal.com about U.S. Patents 9,179,005 and 8,542,815 and related patents listed in the accompanying Attachment A. *(Please Note: Attachment A is attached here only to the first letter.)* Sent to the following companies: **Rogers Communications Inc. *in* Canada; Shaw Cable *in* Canada; Walmart *in* Alaska; *and* WIND Mobile *in* Canada.**	
	7	Letters dated JANUARY 21, 2016, from VoIP-Pal.com Inc. giving notice and inviting the companies listed herein below to contact VoIP-Pal.com about U.S. Patents 9,179,005 and 8,542,815 and related patents listed in the accompanying Attachment A. *(Please Note: Attachment A is attached here only to the first letter.)* Sent to the following companies: **Alibaba (China) Co., Ltd *in* China; Comwave Telecommunications *in* Canada; *and* Intel *in the* U.S.**	
	8	Letters dated FEBRUARY 2, 2016, from VoIP-Pal.com Inc. giving notice and inviting the companies listed herein below to contact VoIP-Pal.com about U.S. Patents 9,179,005 and 8,542,815 and related patents listed in the accompanying Attachment A. *(Please Note: Attachment A is attached here only to the first letter.)* Sent to the following companies: **Netflix Inc. *in the* U.S.; Skype Technologies *in the* U.S.; *and* WhatsApp Inc. *in the* U.S.**	

22970393
032316

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.*	

T[1] - Place a check mark in this area when an English language Translation is attached.

Electronic Patent Application Fee Transmittal

Application Number:	14035806
Filing Date:	24-Sep-2013
Title of Invention:	MOBILE GATEWAY
First Named Inventor/Applicant Name:	Johan Emil Viktor Björsell
Filer:	John M Carson/Norman Green
Attorney Docket Number:	DIGIF.004C1

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

T-Mobile Exhibit 1002

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Submission- Information Disclosure Stmt	2806	1	90	90
		Total in USD ($)		**90**

Electronic Acknowledgement Receipt

EFS ID:	25289013
Application Number:	14035806
International Application Number:	
Confirmation Number:	5562
Title of Invention:	MOBILE GATEWAY
First Named Inventor/Applicant Name:	Johan Emil Viktor Björsell
Customer Number:	20995
Filer:	John M Carson/Norman Green
Filer Authorized By:	John M Carson
Attorney Docket Number:	DIGIF.004C1
Receipt Date:	23-MAR-2016
Filing Date:	24-SEP-2013
Time Stamp:	20:00:05
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$90
RAM confirmation Number	15404
Deposit Account	111410
Authorized User	KNOBBE MARTENS OLSON AND BEAR

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 CFR 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 CFR 1.17 (Patent application and reexamination processing fees)

T-Mobile Exhibit 1002

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		IDS_DIGIF_004C1_03_23_2016.pdf	244160 157f7ccde53c5697a3a4bcfa00d574bddaca471a	yes	5
	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Transmittal Letter		1	2	
	Information Disclosure Statement (IDS) Form (SB08)		3	5	
Warnings:					
Information:					
2	Non Patent Literature	Ref1a_COMPLAINT_with_Exhibits_VERIZON_and_ATandT.pdf	16311972 19825a3f9961f26f006947b66dbe289637da137f	no	76
Warnings:					
Information:					
3	Non Patent Literature	Ref1b_COMPLAINT_with_Exhibits_VERIZON_and_ATandT.pdf	17590450 58e713e131d8a456a8bf3648ee540563f0ac730c	no	80
Warnings:					
Information:					
4	Non Patent Literature	Ref1c_COMPLAINT_with_Exhibits_VERIZON_and_ATandT.pdf	21918721 0ca87bdcc6ffec12b20ba16a271d9724b0690484	no	50
Warnings:					
Information:					
5	Non Patent Literature	Ref1d_COMPLAINT_with_Exhibits_VERIZON_and_ATandT.pdf	23575414 cbe29f333b4cac7c451d3cfcc845eb00db8a526b	no	58
Warnings:					
Information:					
6	Non Patent Literature	Ref1e_COMPLAINT_with_Exhibits_VERIZON_and_ATandT.pdf	23800069 86ee8d69381ef492b6113edca7dc13b6aa9adcb6	no	55
Warnings:					
Information:					

7	Non Patent Literature	Ref1f_COMPLAINT_with_Exhibits_VERIZON_and_ATandT.pdf	19938392 fc114102da1f13767a3a1b97fec7de52d127f901	no	48
Warnings:					
Information:					
8	Non Patent Literature	Ref1g_COMPLAINT_with_Exhibits_VERIZON_and_ATandT.pdf	21125145 c8e56b758e781b1f082a2ba2d08fb19d1116d2d5	no	60
Warnings:					
Information:					
9	Non Patent Literature	Ref1h_COMPLAINT_with_Exhibits_VERIZON_and_ATandT.pdf	21585913 54196a2c061100c60a50088fb9aa6c37bd3ab434	no	32
Warnings:					
Information:					
10	Non Patent Literature	Ref1i_COMPLAINT_with_Exhibits_VERIZON_and_ATandT.pdf	24160815 09fa78065dbac86779a9c6084157fcb5fa75669c	no	59
Warnings:					
Information:					
11	Non Patent Literature	Ref2a_COMPLAINT_with_Exhibits_APPLE.pdf	18504899 46093507af03c37844ccd4db5b81a20dbf12c329	no	50
Warnings:					
Information:					
12	Non Patent Literature	Ref2b_COMPLAINT_with_Exhibits_APPLE.pdf	22118881 5e06fd162e2ab5a7a17a4f2de574bf22e76d3cb0	no	20
Warnings:					
Information:					
13	Non Patent Literature	Ref2c_COMPLAINT_with_Exhibits_APPLE.pdf	14179093 5e8aa7809a1d28e674aa8dead7dd56716befbf86	no	40
Warnings:					
Information:					
14	Non Patent Literature	Ref2d_COMPLAINT_with_Exhibits_APPLE.pdf	25727310 e1ca78b598546b0f41df7ca2ab13f05079741d46	no	23
Warnings:					
Information:					
15	Non Patent Literature	Ref2e_COMPLAINT_with_Exhibits_APPLE.pdf	19921789 d6bfbbdc1801cda19ddecb3beb9b5f43aa782b40	no	38
Warnings:					
Information:					

16	Non Patent Literature	Ref2f_COMPLAINT_with_Exhibits_APPLE.pdf	24830002 c286a175d1e68b0a2de1f33f0c5b52ef37780643	no	36
Warnings:					
Information:					
17	Non Patent Literature	Ref2g_COMPLAINT_with_Exhibits_APPLE.pdf	20780930 a13c385804b7acf9563cdafd21b1d9668078c1f8	no	53
Warnings:					
Information:					
18	Non Patent Literature	Ref2h_COMPLAINT_with_Exhibits_APPLE.pdf	22069665 beab7c2e27514a8d808b3b9681370bcbdd761265	no	20
Warnings:					
Information:					
19	Non Patent Literature	Ref2i_COMPLAINT_with_Exhibits_APPLE.pdf	18082167 2f2c1ae3851823b4b19410a82279a7040851e9cb	no	50
Warnings:					
Information:					
20	Non Patent Literature	Ref2j_COMPLAINT_with_Exhibits_APPLE.pdf	23851865 6b8eba62e73f55bca2a0c183b4a44a2cca3a5d20	no	46
Warnings:					
Information:					
21	Non Patent Literature	Ref2k_COMPLAINT_with_Exhibits_APPLE.pdf	23491892 12ce5dd2ce17a2b64c6e3be394a0d8109142d28c	no	56
Warnings:					
Information:					
22	Non Patent Literature	Ref3_Apple_Notice_Letter_11_30_2015.pdf	1756704 6f4b976604d0733b053a36b901d356cf242356b3	no	4
Warnings:					
Information:					
23	Non Patent Literature	Ref4_Verizon_Notice_Letter_12_01_2015.pdf	1417540 a811e1dfc81de918fc8ab7ede6bb3a4f4c2a8a27	no	4
Warnings:					
Information:					
24	Non Patent Literature	Ref5a_Notice_Letters_12_18_2015.pdf	18101282 d9ad41860164670d615bcdf1b5b19b609b05af5e	no	24
Warnings:					
Information:					

25	Non Patent Literature	Ref5b_Notice_Letters_12_18_2015.pdf	15588035 769830a6e40f266cf3f6dbbf0c315d0a28c6607a	no	20
Warnings:					
Information:					
26	Non Patent Literature	Ref6_Notice_Letters_01_04_2016.pdf	2318011 b4b0dd8723f3ed80c665602a2c6ceebc73a96f9f	no	6
Warnings:					
Information:					
27	Non Patent Literature	Ref7_Notice_Letters_01_21_2016.pdf	5328378 951579a2536d8018c9977f867056af315d9d06cb	no	5
Warnings:					
Information:					
28	Non Patent Literature	Ref8_Notice_Letters_02_04_2016.pdf	5033977 20c14e45b871e96cbee9fb59413ca09f18d8b83c	no	5
Warnings:					
Information:					
29	Fee Worksheet (SB06)	fee-info.pdf	30733 8fa5af8c81a7c4cf840df35970b0518ffbe315a0	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	473384204		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

<u>New Applications Under 35 U.S.C. 111</u>
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

<u>National Stage of an International Application under 35 U.S.C. 371</u>
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

<u>New International Application Filed with the USPTO as a Receiving Office</u>
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

INFORMATION DISCLOSURE STATEMENT

First Inventor	:	Johan Emil Viktor Björsell, et al.
App. No.	:	14/035,806
Filed	:	September 24, 2013
For	:	MOBILE GATEWAY
Examiner	:	Rahman, M. Mostazir
Art Unit	:	2411
Conf. No.	:	5562

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

References and Listing

Pursuant to 37 CFR 1.56, an Information Disclosure Statement listing references is provided herewith. Copies of any listed foreign and non-patent literature references are being submitted.

The Examiner will please note that the references numbered 5-8 list Letters to various companies "giving notice". Each of these Letters when mailed was accompanied by an Attachment A consisting of a list of related patents. This is indicated for each Letter, however, in the interest of avoiding duplicative and cumulative content, Attachment A has been uploaded to the USPTO EFS website with only the first Letter for each new date.

No Disclaimers

To the extent that anything in the Information Disclosure Statement or the listed references could be construed as a disclaimer of any subject matter supported by the present application, Applicant hereby rescinds and retracts such disclaimer.

Timing of Disclosure

This Information Disclosure Statement is being filed after receipt of a First Office Action, but before the mailing date of a Final Action and before the mailing date of a Notice of Allowance. This Statement is accompanied by the fees set forth in 37 CFR 1.17(p). The

Commissioner is hereby authorized to charge any additional fees which may be required or to credit any overpayment to Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 3/23/16

By: _____

John M. Carson
Registration No. 34,303
Attorney of Record
Customer No. 20995
(858) 707-4000

IDS
22970429
032316

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.	14/035,806
	Filing Date	September 24, 2013
	First Named Inventor	Björsell, Johan Emil Viktor
	Art Unit	2411
(Multiple sheets used when necessary)	Examiner	Rahman, M. Mostazir
SHEET 1 OF 1	Attorney Docket No.	DIGIF.004C1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	7,486,684 B2	02-03-2009	Chu et al.	
	2	8,036,366 B2	10-11-2011	Chu, Lon-Chan	
	3	2007/0064919 A1	03-22-2007	Chen et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T[1]

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[1]
	4	**DOCUMENT TITLE:** UNITED STATES PATENT AND TRADEMARK OFFICE; BEFORE THE PATENT TRIAL AND APPEAL BOARD; APPLE INC., Petitioner v. VOIP-PAL.COM INC., Patent Owner; Case No. TBD, U.S. Patent No. 9,179,005; **PETITION FOR *INTER PARTES* REVIEW OF U.S. PATENT 9,179,005**; Dated June 15, 2016. 70 sheets	
	5	**DOCUMENT TITLE:** IN THE UNITED STATES PATENT AND TRADEMARK OFFICE; PETITION FOR *INTER PARTES* REVIEW PURSUANT TO 37 C.F.R. §42.100 ET SEQ.; In re U.S. Patent No. 9,179,005; Currently in Litigation Styled: VoIP-Pal.com, Inc. v. Apple Inc., Case No: 2:16-cv-00260-RFB-VCF; Issued: November 3, 2015; Application Filed: August 13, 2013; Applicant: Clay Perreault, et al.; Title: Producing Routing Messages for Voice Over IP Communications; **DECLARATION OF HENRY H. HOUH, PhD**; Signed June 14, 2016. 143 sheets	
	6	**DOCUMENT TITLE:** UNITED STATES PATENT AND TRADEMARK OFFICE; BEFORE THE PATENT TRIAL AND APPEAL BOARD; APPLE INC., Petitioner v. VOIP-PAL.COM INC., Patent Owner; Case No. TBD, U.S. Patent No. 8,542,815; **PETITION FOR *INTER PARTES* REVIEW OF U.S. PATENT 8,542,815**; Dated June 15, 2016. 67 sheets	
	7	**DOCUMENT TITLE:** IN THE UNITED STATES PATENT AND TRADEMARK OFFICE; PETITION FOR *INTER PARTES* REVIEW PURSUANT TO 37 C.F.R. §42.100 ET SEQ.; In re U.S. Patent No. 8,542,815; Currently in Litigation Styled: VoIP-Pal.com, Inc. v. Apple Inc., Case No: 2:16-cv-00260-RFB-VCF; Issued: September 24, 2013; Application Filed: November 1, 2007; Applicant: Clay Perreault, et al.; Title: Producing Routing Messages for Voice Over IP Communications; **DECLARATION OF HENRY H. HOUH, PhD**; Signed June 14, 2016. 143 sheets	

23769691
071416

Examiner Signature	Date Considered
***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

T[1] - Place a check mark in this area when an English language Translation is attached.

Electronic Patent Application Fee Transmittal

Application Number:	14035806
Filing Date:	24-Sep-2013
Title of Invention:	MOBILE GATEWAY
First Named Inventor/Applicant Name:	Johan Emil Viktor Björsell
Filer:	John M Carson/Norman Green
Attorney Docket Number:	DIGIF.004C1

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

T-Mobile Exhibit 1002

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Submission- Information Disclosure Stmt	2806	1	90	90
		Total in USD ($)		**90**

Electronic Acknowledgement Receipt

EFS ID:	26356915
Application Number:	14035806
International Application Number:	
Confirmation Number:	5562
Title of Invention:	MOBILE GATEWAY
First Named Inventor/Applicant Name:	Johan Emil Viktor Björsell
Customer Number:	20995
Filer:	John M Carson/Norman Green
Filer Authorized By:	John M Carson
Attorney Docket Number:	DIGIF.004C1
Receipt Date:	14-JUL-2016
Filing Date:	24-SEP-2013
Time Stamp:	19:57:05
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$90
RAM confirmation Number	5576
Deposit Account	111410
Authorized User	KNOBBE MARTENS OLSON AND BEAR

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 CFR 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 CFR 1.17 (Patent application and reexamination processing fees)

T-Mobile Exhibit 1002

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		IDS_IPR_APPLE_v_VOIP_DIGIF_004C1_07_14_2016.pdf	128600 5e7c9de8feaddc797feb81c8b0bf5f770afc304b	yes	3
	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Transmittal Letter		1	2	
	Information Disclosure Statement (IDS) Form (SB08)		3	3	
Warnings:					
Information:					
2	Non Patent Literature	Ref4a_Petition_Apple_v_Voip-Pal_USPat_9179005.pdf	16802821 fa94926877f7e7a55ef880e1a1850ca06ba6c681	no	35
Warnings:					
Information:					
3	Non Patent Literature	Ref4b_Petition_Apple_v_Voip-Pal_USPat_9179005.pdf	13987581 e3e5cb5e42f1e458d4a91dd07ed0f3f674241250	no	35
Warnings:					
Information:					
4	Non Patent Literature	Ref5a_Exhibit_1009_Houh_Dec_USPat_9179005.pdf	24965961 6a6782740abee1764655429aaec7e6b7ce6fa6f8	no	25
Warnings:					
Information:					
5	Non Patent Literature	Ref5b_Exhibit_1009_Houh_Dec_USPat_9179005.pdf	25934667 3fc779e90fea8ce6d0e244d99e49bc3e26a74ccd	no	24
Warnings:					
Information:					

6	Non Patent Literature	Ref5c_Exhibit_1009_Houh_Dec_USPat_9179005.pdf	14117751 04810b3c66031465e86ef803187b0eb37a5c2d23	no	25
Warnings:					
Information:					
7	Non Patent Literature	Ref5d_Exhibit_1009_Houh_Dec_USPat_9179005.pdf	7877214 e25c650e18d96595dd1bbf5c910e7a3a02424fa1	no	25
Warnings:					
Information:					
8	Non Patent Literature	Ref5e_Exhibit_1009_Houh_Dec_USPat_9179005.pdf	23633606 4ee6ab35b5067aaa0dfdc894c2e99661d089825e	no	44
Warnings:					
Information:					
9	Non Patent Literature	Ref6a_Petition_Apple_v_VoipPal_USPat_8542815.pdf	13810607 26249bfd492f5aa53b4962063d982c26531bdda1	no	30
Warnings:					
Information:					
10	Non Patent Literature	Ref6b_Petition_Apple_v_VoipPal_USPat_8542815.pdf	15263740 85a93571b4f28ed78237b78018876454000d32eba	no	37
Warnings:					
Information:					
11	Non Patent Literature	Ref7a_Exhibit_1009_Houh_Dec_USPat_8542815.pdf	25522657 d0986cdee397faac84f045235424d0389fc0d445	no	25
Warnings:					
Information:					
12	Non Patent Literature	Ref7b_Exhibit_1009_Houh_Dec_USPat_8542815.pdf	24986271 15586da8a0675c71e862e4b7050dad268742a847	no	22
Warnings:					
Information:					

13	Non Patent Literature	Ref7c_Exhibit_1009_Houh_Dec_USPat_8542815.pdf	18011712 270400153dab71a5286dc1af647a9a0c995fe0b5	no	29
Warnings:					
Information:					
14	Non Patent Literature	Ref7d_Exhibit_1009_Houh_Dec_USPat_8542815.pdf	19617442 47d623fb6ee74842713aa91e010c6a40971134ab	no	39
Warnings:					
Information:					
15	Non Patent Literature	Ref7e_Exhibit_1009_Houh_Dec_USPat_8542815.pdf	12943184 10f2a7b5038905c1a32d2dfb1b3d3efeb1e85e12	no	28
Warnings:					
Information:					
16	Fee Worksheet (SB06)	fee-info.pdf	30733 8b9bd3e6022ad5035b95bf71413131ec1f2c1f58	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	257634547		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

<u>New Applications Under 35 U.S.C. 111</u>
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

<u>National Stage of an International Application under 35 U.S.C. 371</u>
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

<u>New International Application Filed with the USPTO as a Receiving Office</u>
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

INFORMATION DISCLOSURE STATEMENT

First Inventor	:	Johan Emil Viktor Björsell, et al.
App. No.	:	14/035,806
Filed	:	September 24, 2013
For	:	MOBILE GATEWAY
Examiner	:	Rahman, M. Mostazir
Art Unit	:	2411
Conf. No.	:	5562

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

References and Listing

Pursuant to 37 CFR 1.56, an Information Disclosure Statement listing references is provided herewith. Copies of any listed foreign and non-patent literature references are being submitted.

No Disclaimers

To the extent that anything in the Information Disclosure Statement or the listed references could be construed as a disclaimer of any subject matter supported by the present application, Applicant hereby rescinds and retracts such disclaimer.

Timing of Disclosure

This Information Disclosure Statement is being filed after receipt of a First Office Action, but before the mailing date of a Final Action and before the mailing date of a Notice of Allowance. This Statement is accompanied by the fees set forth in 37 CFR 1.17(p). The

T-Mobile Exhibit 1002

Application No.: **14/035,806**
Filing Date: **September 24, 2013**

Commissioner is hereby authorized to charge any additional fees which may be required or to credit any overpayment to Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 7/14/16

By: _____

John M. Carson
Registration No. 34,303
Attorney of Record
Customer No. 20995
(858) 707-4000

IDS
23769788
071416

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Inventor	:	Johan Emil Viktor Björsell
App. No.	:	14/035,806
Filed	:	September 24, 2013
For	:	MOBILE GATEWAY
Examiner	:	Rahman, M Mostazir
Art Unit	:	2411
Conf. No.	:	5562

REPLY TO NON-FINAL OFFICE ACTION WITH AMENDMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In reply to the non-final Office Action dated January 14, 2016, Applicant presents the following amendments and remarks.

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks begin on page 25 of this paper.

AMENDMENTS TO THE CLAIMS

1. (Original) A method of establishing communications between a wireless device and a destination node of a communications network, the method comprising:

receiving from a user of the wireless device a destination node identifier associated with the destination node;

transmitting an access code request message to an access server, the access code request message including the destination node identifier and a location identifier identifying a geographical location of the wireless device;

receiving an access code reply message from the access server in response to the access code request message, the access code reply message including an access code identifying a communications channel on a gateway through which communications between the wireless device and the destination node can be conducted, the access code being distinct from the destination node identifier; and

establishing communications between the wireless device and the destination node through the channel identified by the access code.

2. (Original) The method of claim 1, wherein transmitting comprises transmitting the access code request message to the access server on a non-voice network.

3. (Original) The method of claim 1, wherein transmitting comprises transmitting the access code request message as a Short Messaging Service (SMS) message.

4. (Original) The method of claim 1, wherein transmitting comprises transmitting the access code request message on a voice network.

5. (Original) The method of claim 4, wherein transmitting the access code request message on a voice network comprises transmitting the access code request message as a Short Messaging Service (SMS) message.

6. (Original) The method of claim 1, wherein the location identifier comprises an Internet Protocol (IP) address of the wireless device in a wireless Internet Protocol (IP) network.

7. (Original) The method of claim 1, wherein the location identifier comprises an identifier of a wireless voice signal station in wireless communication with the wireless device.

8. (Original) The method of claim 1, wherein the location identifier comprises a user-configured identifier of a location associated with the wireless device.

9. (Original) The method of claim 1, wherein receiving the access code reply message comprises receiving the access code reply message from the access server on a non-voice network.

10. (Original) The method of claim 1, wherein receiving the access code reply message comprises receiving the access code reply message as a Short Messaging Service (SMS) message.

11. (Original) The method of claim 1, wherein receiving comprises receiving the access code reply message on a voice network.

12. (Original) The method of claim 11, wherein receiving the access code reply message on a voice network comprises receiving the access code reply message as a Short Messaging Service (SMS) message.

13. (Original) The method of claim 1, wherein receiving the access code reply message comprises receiving, in the access code reply message, an access code temporarily associated with the destination node identifier.

14. (Original) The method of claim 1, wherein receiving the access code reply message comprises receiving, in the access code reply message, a telephone number or an Internet Protocol (IP) address.

15. (Original) The method of claim 14, wherein establishing communications between the wireless device and the destination node comprises engaging a routing controller to

route the call on a public switched telephone network (PSTN) or an IP network to the destination node.

16. (Original) The method of claim 1 further comprising:

receiving at the access server, the access code request message from the wireless device;

causing the access server to communicate with a routing controller to obtain from the routing controller the access code, wherein the access code identifies a communications channel associated with the location identifier and wherein the access code is useable by the wireless device in a subsequent communication to cause the routing controller to establish a call to the destination node using the communications channel; and

causing the access server to transmit the access code reply message to the wireless device.

17. (Original) The method of claim 16, wherein transmitting the access code reply message comprises transmitting the access code reply message as a Short Messaging Service (SMS) message.

18. (Original) The method of claim 16, wherein transmitting the access code reply message comprises transmitting the access code reply message on a voice network.

19. (Original) The method of claim 18, wherein transmitting the access code reply message on a voice network comprises transmitting the access code request message as a Short Messaging Service (SMS) message.

20. (**Currently amended**) A wireless apparatus comprising:

means for receiving from a user of the wireless apparatus a destination node identifier associated with a destination node with which the user wishes to communicate;

means for transmitting an access code request message to an access server, the access code request message including the destination node identifier and a location identifier identifying a geographical location of the wireless apparatus;

means for receiving an access code reply message from the access server in response to the access code request message, the access code reply message including an access code identifying a communications channel on a gateway through which communications between the wireless apparatus and the destination node can be conducted, the access code being distinct from the destination node identifier; and

means for establishing communications between the wireless ~~device~~ apparatus and the destination node through the communications channel identified by the access code.

21. (**Currently amended**) The apparatus of claim 20, wherein the means for transmitting ~~means~~ comprises a non-voice network interface for transmitting the access code request message to the access server on a non-voice network.

22. (Original) The apparatus of claim 20, wherein the means for transmitting includes means for transmitting the access code request message as a Short Messaging Service (SMS) message.

23. (Original) The apparatus of claim 20, wherein the means for transmitting comprises means for transmitting the access code request message on a voice network.

24. (Original) The apparatus of claim 23, wherein the means for transmitting the access code request message on a voice network comprises means for transmitting the access code request message as a Short Messaging Service (SMS) message.

25. (Original) The apparatus of claim 20, wherein the location identifier comprises an Internet Protocol (IP) address of the wireless apparatus in a wireless IP network.

26. (Original) The apparatus of claim 20, wherein the location identifier comprises an identifier of a wireless voice signal station in wireless communication with the wireless apparatus.

27. (Original) The apparatus of claim 20, wherein the location identifier comprises a user-configured identifier of a location associated with the wireless apparatus.