

1 **93. (currently amended)** A virtual network system, comprising:
2 a computing device that includes at least a memory and a processor configured to
3 implement a virtual network manager having a network interface coupled to a virtual
4 network, the virtual network manager including at least one virtual community definition
5 that is defined by a domain name having an associated public network address and a user
6 set of one or more devices that are registered in the virtual network, each device in the
7 virtual network being identified to the other devices by a virtual network address that is
8 associated with the device, the virtual network manager configured to exchange virtual
9 network information with the one or more devices of the user set, the virtual network
10 being accessible by devices in the user set and devices outside of the user set, and the
11 virtual network manager further configured to receive a DNS request from a source
12 device, and return a public network address of a route director, a private network address
13 for a destination device, and a virtual network address that corresponds to the destination
14 device.

15
16 **94. (original)** The system of claim 93 wherein the virtual network manager
17 includes a member register module.

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19 **95. (original)** The system of claim 93 wherein the virtual network manager
20 includes a member join module.

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22 **96. (previously presented)** The system of claim 95 wherein the member join
23 module provides a virtual network address to a device that is registered as a member of
24 the network.

1 **97. (previously presented)** The system of claim 93 wherein the virtual
2 network manager is further configured to maintain data on an association between at least
3 one virtual network address with at least one device that is registered as a member of the
4 network.

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6 **98. (previously presented)** The system of claim 93 wherein the virtual
7 network manager includes a DNS server for the virtual community network.

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9 **99. (previously presented)** The system of claim 93 wherein the virtual
10 network manager includes a NAT device detector for devices connecting with the virtual
11 network manager behind a NAT device.

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13 **100. (previously presented)** The system of claim 93 wherein the virtual
14 network manager includes at least a second virtual community definition.

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16 **101. (canceled)**

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18 **102. (original)** The system of claim 93 wherein the virtual network manager
19 includes a member authenticator.

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21 **103. (previously presented)** The system of claim 93 wherein the virtual
22 network manager includes a DNS server configured to provide authoritative responses for
23 DNS queries from devices in the virtual community.
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1 **104. (previously presented)** The system of claim 93 further comprising at
2 least one route director configured to communicate with the one or more devices in the
3 user set.

4
5 **105. (previously presented)** The system of claim 93 wherein each device
6 registered in the network is configured to communicate with the virtual network manager
7 and other devices in the user set via at least one agent.

8
9 **106. (previously presented)** The system of claim 93 wherein the user set
10 includes at least a first device and a second device, and wherein at least one of said first
11 device and said second device is coupled to a first private network and accesses a public
12 network via a NAT device.

13
14 **107. (original)** The system of claim 106 wherein said first device is coupled to
15 said first private network, and said second device is coupled to a second private network
16 and accesses the public network via a second NAT device.

17
18 **108. (previously presented)** The system of claim 93 wherein communications
19 between the one or more devices in the user set are encrypted.

20
21 **109. (previously presented)** The system of claim 108 wherein the virtual
22 network manager is configured to provide a shared message to the one or more devices in
23 the user set to establish encrypted communications.
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REMARKS

Applicant respectfully requests consideration and allowance of the subject application. Claims 1-15, 17-24, 26-36, 41-43, 53-66, 68-100, and 102-109 are pending, of which claim 93 has been amended.

Notices of Non-Compliant Amendment

Response to the Notice dated June 01, 2010: The Office indicates that some of the amendments to claim 93 were already entered in the Response filed May 29, 2009. Accordingly, claim 93 now only indicates the current amendment that was added after the May 29, 2009 amendment.

Response to the Notice dated February 05, 2010: The Office states that the claim amendment filed on May 29, 2009 was compliant with 1.121 and was entered. The amendment filed on October 26, 2009 in response to the Notice of Non-Responsive Amendment is a supplemental amendment and the claim amendments should have been presented with respect to the May 29, 2009 claim set. Specifically, only claim 93 should be listed as currently amended, and the claim markups should be changed appropriately.

Accordingly, only claim 93 is listed as currently amended, and Applicant submits that the Response is both fully responsive and compliant.

Notice of Non-Responsive Amendment

The Office indicates that the Response filed May 29, 2009 was not fully responsive because an argument against the §101 rejection of claim 93 was not provided. In the Office Action, claim 93 was rejected as being directed to non-statutory subject matter, namely the recited “virtual network manager”. Applicant has amended the Response herein. Specifically, claim 93 has been amended to recite “a computing device

1 that includes at least a memory and a processor configured to implement a virtual
2 network manager...”. Accordingly, Applicant submits that the Response is now fully
3 responsive.

4 **Allowable Subject Matter**

5 Claims 16 and 44 are indicated as being allowable if rewritten in independent
6 form (*Office Action* p. 8). Applicant appreciates the indication of allowability. Claim 1
7 has been amended to incorporate the allowable subject matter of claim 16 (now
8 canceled), and claim 32 has been amended to incorporate the allowable subject matter of
9 claim 44 (now canceled). The objection to claims 16 and 44 has been obviated.

10 Accordingly, independent claim 1 along with dependent claims 2-15, 17-24, and
11 26-31 are in condition for allowance. Similarly, independent claim 32 along with
12 dependent claims 33-36 and 41-43 are in condition for allowance.

13 **35 U.S.C. §101 Rejections**

14 Claims 1-24, 26-36, 41-44, 53-66, 68-79, 93-100, and 102-109 are rejected under
15 35 U.S.C. §101 as being directed to non-statutory subject matter (*Office Action* p. 2).
16 Specifically, the Office rejects claims 1-24 and 26-31 as software *per se* for the recited
17 “virtual network manager” and “route director”. Claims 53-63 are also rejected as
18 software *per se* for the recited software agents. Claims 64-66 and 68-79 are rejected
19 because the recited process is not positively tied to a particular machine or does not
20 transform underlying subject matter (*Office Action* p. 3).
21

22 Amendments have been provided and Applicant requests that the §101 rejections
23 be withdrawn.
24
25

1 **35 U.S.C. §102 Rejection**

2 Claims 1-15, 17-24, 26, 29-43, 53-56, 59-66, 68-87, 90-100, and 102-109 are
3 rejected under 35 U.S.C. §102(e) as being anticipated by U.S. Patent Publication
4 No. 2008/0232295 to Kreiner *et al.* (hereinafter, “Kreiner”) (*Office Action* p. 3).

5 Applicant respectfully traverses the rejection in light of the amendments to the
6 claims, and makes no representation that cited references are prior art. This response and
7 any remarks or comments included herein are not intended to be, and are not to be
8 interpreted as, an admission that the cited references are prior art. Applicant reserves the
9 right to dispose of any cited references under 35 U.S.C. §102 and/or 35 U.S.C. §103,
10 including but not limited to, antedating any one or more of the cited references.

11
12 Independent **Claim 1** along with dependent claims 2-15, 17-24, and 26-31, as
13 well as independent **Claim 32** along with dependent claims 33-36 and 41-43 are in
14 condition for allowance as described above.

15 **Claim 53** recites a virtual network system, comprising:

16 a computing device that includes at least a memory and a processor
17 configured to implement a network manager of a virtual network that is defined
18 by a public domain name, the network manager configured to distribute virtual
19 network addresses to devices that register as members in the virtual network, each
 device in the virtual network being identified to the other devices by a virtual
 network address associated with the device;

20 a first virtual network agent associated with a first device that is registered
21 as a member in the virtual network;

22 at least a second virtual network agent associated with at least a second
23 device that is registered as a member in the virtual network; and

24 a route director configured to route communications between the first
 device and the at least second device in the virtual network via the respective first
 and second virtual network agents, the communications configured for routing as

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encapsulated packets that include a first virtual network address that is not directly routable corresponding to the first device and a second virtual network address that is not directly routable corresponding to the at least second device.

While the Office makes no specific rejection with respect to claim 53, the Office states that all claims above 31 are rejected for the same reasons as 1-15, 17-24, and 25-31 (*Office Action* p. 8). Kreiner does not show or disclose a “network manager configured to distribute virtual network addresses to devices that register as members in the virtual network, each device in the virtual network being identified to the other devices by a virtual network address associated with the device”, as recited in claim 53.

In rejecting claim 1, the Office cites to Kreiner at ¶[0039] for a virtual network manager configured to register devices in a virtual network (*Office Action* p. 3). Although the cited section of Kreiner describes “an exemplary framework of the data flow through a personal digital gateway, a connected communications device, and/or a connected network, Kreiner does not describe that the devices in the exemplary framework are ever **registered in a virtual network**, as recited in claim 53.

Kreiner also does not show or disclose “the communications configured for routing as encapsulated packets that include a first virtual network address that is not directly routable corresponding to the first device and a second virtual network address that is not directly routable corresponding to the at least second device”, as recited in claim 53.

With reference to the rejection of claim 1, the Office cites to Kreiner at ¶[0038] for data being communicated as encapsulated packets from a source device to a destination device (*Office Action* p. 4). Kreiner only describes maintaining information about each communications device, such as network routing that provides a virtual private router that tunnels the user’s network access to any communications device

1 connected with the personal gateway (*Kreiner* ¶[0038]). However, there is no indication
2 in *Kreiner* that data is being communicated between devices as encapsulated packets.
3 Moreover, the virtual private router in *Kreiner* that tunnels access to any of the
4 communication devices indicates that the only method of access for the devices is
5 through the single user access. This single user access for multiple devices is contrary to
6 a first virtual network address that corresponds to a first device and a second virtual
7 network address that corresponds to a second device”, as recited in claim 53.

8 Accordingly, *Kreiner* as cited by the Office does not support a §102 rejection of
9 claim 53 for at least the reasons described above, and Applicant requests that the §102
10 rejection be withdrawn. Additionally, claims 54-63 are allowable as depending from
11 claim 53.

12 **Claim 64** recites a computer-implemented method, comprising:

13 receiving registration requests from devices that request to be registered as
14 members of a virtual network that is defined by a domain name having an
15 associated public network address in a public network, each of the devices having
an associated private network address;

16 distributing a virtual network address to a device to register the device as a
17 member in the virtual network, each device in the virtual network being identified
18 to the other devices by the virtual network address that is associated with the
device; and

19 routing communications between the devices that are registered in the
20 virtual network, the communications being routed as encapsulated packets from a
21 source device to a destination device, an encapsulated packet including a first
virtual network address that corresponds to the source device and a second virtual
network address that corresponds to the destination device.

22
23 As described above in response to the rejection of claim 53, *Kreiner* does not
24 show or disclose the features recited in claim 64, such as “devices that request to be

1 registered as members of a virtual network” and “routing communications between the
2 devices that are registered in the virtual network, the communications being routed as
3 encapsulated packets from a source device to a destination device, an encapsulated packet
4 including a first virtual network address that corresponds to the source device and a
5 second virtual network address that corresponds to the destination device”.

6 Accordingly, Kreiner as cited by the Office does not support a §102 rejection of
7 claim 64 for at least the reasons described above, and Applicant requests that the §102
8 rejection be withdrawn. Additionally, claims 65, 66, and 68-79 are allowable as
9 depending from claim 64.

10 **Claim 80** recites a virtual network manager to “receive registration requests from
11 devices that request to be registered as members of a virtual network” and “manage
12 communications routed between the devices that are registered in the virtual network, the
13 communications routed as encapsulated packets from a source device to a destination
14 device, an encapsulated packet including a first virtual network address that corresponds
15 to the source device and a second virtual network address that corresponds to the
16 destination device”.

17 As described above in response to the rejection of claim 53, Kreiner does not
18 show or disclose the features recited in claim 80. Accordingly, Kreiner as cited by the
19 Office does not support a §102 rejection of claim for at least the reasons described above,
20 and Applicant requests that the §102 rejection be withdrawn. Additionally, claims 81-92
21 are allowable as depending from claim 80.

22
23 **Claim 93** recites virtual network manager “configured to receive a DNS request
24 from a source device, and return a public network address of a route director, a private

1 network address for a destination device, and a virtual network address that corresponds
2 to the destination device.”

3 Claim 93 recites allowable subject matter as incorporated into claims 1 and 32 as
4 described above. Accordingly, claim 93 along with dependent claims 94-100 and
5 102-109 are allowable, and Applicant requests that the §102 rejection be withdrawn.

6 **35 U.S.C. §103 Rejection**

7 Claims 27 and 28 are rejected under 35 U.S.C. §103(a) for obviousness over
8 Kreiner (*Office Action* p. 8). The Office takes official notice that the claimed types of
9 encryption are well known. Claims 27 and 28 depend from allowable claim 1 as
10 described above. Accordingly, claims 27 and 28 are in condition for allowance, and
11 Applicant requests that the §103 rejection be withdrawn.

12 **Conclusion**

13 Applicant submits that all objections and/or rejections of the pending claims 1-15,
14 17-24, 26-36, 41-43, 53-66, 68-100, and 102-109 have been addressed, and respectfully
15 requests issuance of the application. If any issues remain that preclude issuance of the
16 application, the Examiner is requested to contact the undersigned attorney before issuing
17 a subsequent Action.
18

19 Respectfully Submitted,

20 Dated: June 07, 2010

21 By: / Dave Morasch 42905 /
22 David A. Morasch
23 SBMC, p.s.
24 Reg. No. 42,905
25 (509) 755-7250

Electronic Acknowledgement Receipt	
EFS ID:	7757476
Application Number:	10403818
International Application Number:	
Confirmation Number:	2698
Title of Invention:	Secure virtual community network system
First Named Inventor/Applicant Name:	Hasan S. Alkhatib
Customer Number:	75671
Filer:	William Breen/Kenneth Linder
Filer Authorized By:	William Breen
Attorney Docket Number:	INN0017
Receipt Date:	07-JUN-2010
Filing Date:	31-MAR-2003
Time Stamp:	13:34:33
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		INN0017Response7.pdf	215582	yes	29
			c415b952cddfecc48aa499c7b11226a2aef5e3b2		

	Multipart Description/PDF files in .zip description		
	Document Description	Start	End
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	22
	Applicant Arguments/Remarks Made in an Amendment	23	29
Warnings:			
Information:			
Total Files Size (in bytes):		215582	
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.			



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/403,818

03/31/2003

Hasan S. Alkhatib

INNFO017

2698

75671 7590 09/01/2010
Sadler, Breen, Morasch & Colby, ps
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EXAMINER

BLAIR, DOUGLAS B

ART UNIT

PAPER NUMBER

2442

NOTIFICATION DATE

DELIVERY MODE

09/01/2010

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):

usptocorrespondence@sbsmc-law.com

Office Action Summary	Application No. 10/403,818	Applicant(s) ALKHATIB ET AL.	
	Examiner DOUGLAS B. BLAIR	Art Unit 2442	

-- 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 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, 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 07 June 2010.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ 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

- 4) ☒ Claim(s) 1-15, 17-24, 26-36, 41-43, 53-66 and 68-109 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-15, 17-24, 26-36, 41-43 and 93-109 is/are allowed.
- 6) ☒ Claim(s) 53-66 and 68-92 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ 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).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

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).
- a) ☐ All b) ☐ Some * c) ☐ None of:
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) | 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) ☐ Notice of Informal Patent Application |
| 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>5/29/09, 8/7/09, 2/22/10, 5/18/10</u> . | 6) ☐ Other: _____ |

DETAILED ACTION

Response to Amendment

The applicant's amendments to claims 1, 32, and 93 have overcome the previous rejections based on the prior art.

Response to Arguments

Applicant's arguments with respect to claims 53-66 and 68-92 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 53-66 and 68-92 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent Number 6,631,416 to Bendinelli.

As to claim 53, Bendinelli teaches a virtual network system, comprising: a computing device that includes at least a memory and a processor configured to implement a network manager of a virtual network that is defined by a public domain name (col. 17, lines 37-49), the network manager configured to distribute virtual network addresses to devices that register as members in the virtual network, each device in the virtual network being identified to the other

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devices by a virtual network address associated with the device (col. 20, lines 30-54, the operations center serves as the "manager"); a first virtual network agent associated with a first device that is registered as a member in the virtual network; at least a second virtual network agent associated with at least a second device that is registered as a member in the virtual network (col. 20, lines 30-54, the gateways are the claimed devices and the software running on the gateways are "agents" as claimed); and a route director configured to route communications between the first device and the at least second device in the virtual network via the respective first and second virtual network agents, the communications configured for routing as encapsulated packets that include a first virtual network address that is not directly routable corresponding to the first device and a second virtual network address that is not directly routable corresponding to the at least second device (col. 20, lines 30-54, the operations center serves as the "route director").

As to claims 54-60 and 62, they are rejected according to the cited embodiment in the rejection of claim 53.

As to claims 61 and 63, see col. 26, lines 42-50.

As to claims 64-66 and 68-92, these claims are rejected according to the embodiment cited in the rejection of claim 53 and its dependents.

Allowable Subject Matter

Claims 1-15, 17-24, 26-36, 41-43, and 93-109 are allowed.

The following is an examiner's statement of reasons for allowance: the prior art was not found to teach or suggest returning a public network address of a route director, a private

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network address for a destination device, and a virtual network address that corresponds to the destination device in response to a DNS request in the context of claims 1, 32, and 93.

Specifically, no examples were found in the prior art of record in which both a private address and a virtual address of a destination device would be returned.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to DOUGLAS B. BLAIR whose telephone number is (571)272-3893. The examiner can normally be reached on 9:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Asad Nawaz can be reached on (571) 272-3988. 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.

/Douglas B Blair/
Primary Examiner, Art Unit 2442

Notice of References Cited	Application/Control No. 10/403,818		Applicant(s)/Patent Under Reexamination ALKHATIB ET AL.	
	Examiner DOUGLAS B. BLAIR		Art Unit 2442	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2009/0116487	05-2009	READ, Stephen Michael	370/392
*	B	US-7,490,151	02-2009	Munger et al.	709/225
*	C	US-2006/0212599	09-2006	Lucco et al.	709/245
*	D	US-2003/0074472	04-2003	Lucco et al.	709/245
*	E	US-2002/0013848	01-2002	Rene Salle, Mathias Jean	709/226
*	F	US-7,194,553	03-2007	Lucco et al.	709/245
*	G	US-2002/0099937	07-2002	Tuomenoksa, Mark	713/153
*	H	US-2002/0091859	07-2002	Tuomenoksa et al.	709/245
*	I	US-2002/0056008	05-2002	Keane et al.	709/245
*	J	US-2002/0053031	05-2002	Bendinelli et al.	713/201
*	K	US-7,181,542	02-2007	Tuomenoksa et al.	709/250
*	L	US-6,631,416	10-2003	Bendinelli et al.	709/227
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	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.

Index of Claims 	Application/Control No. 10403818	Applicant(s)/Patent Under Reexamination ALKHATIB ET AL.
	Examiner DOUGLAS B BLAIR	Art Unit 2442

✓	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	01/29/2009	08/27/2010										
	1	✓	=										
	2	✓	=										
	3	✓	=										
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	34	✓	✓										
	35	✓	✓										
	36	✓	✓										

<i>Index of Claims</i> 	Application/Control No. 10403818	Applicant(s)/Patent Under Reexamination ALKHATIB ET AL.
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☐ Claims renumbered in the same order as presented by applicant											☐ CPA	☐ T.D.	☐ R.1.47
CLAIM		DATE											
Final	Original	01/29/2009	08/27/2010										
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	69	✓	✓										
	70	✓	✓										
	71	✓	✓										
	72	✓	✓										

<i>Index of Claims</i> 	Application/Control No. 10403818	Applicant(s)/Patent Under Reexamination ALKHATIB ET AL.
	Examiner DOUGLAS B BLAIR	Art Unit 2442

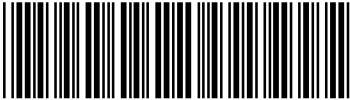
✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant											☐ CPA	☐ T.D.	☐ R.1.47
CLAIM		DATE											
Final	Original	01/29/2009	08/27/2010										
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	107	✓	=										
	108	✓	=										

<i>Index of Claims</i> 	Application/Control No. 10403818	Applicant(s)/Patent Under Reexamination ALKHATIB ET AL.
	Examiner DOUGLAS B BLAIR	Art Unit 2442

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
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☐ Claims renumbered in the same order as presented by applicant										☐ CPA		☐ T.D.		☐ R.1.47	
CLAIM		DATE													
Final	Original	01/29/2009	08/27/2010												
	109	✓	=												

Search Notes 	Application/Control No. 10403818	Applicant(s)/Patent Under Reexamination ALKHATIB ET AL.
	Examiner DOUGLAS B BLAIR	Art Unit 2442

SEARCHED			
Class	Subclass	Date	Examiner
	update	1/28/2009	DBB
	update	8/19/2009	DBB
	update	8/27/2010	DBB

SEARCH NOTES		
Search Notes	Date	Examiner
update	1/28/2009	DBB
inventor name search	1/28/2009	DBB
update	8/19/2009	DBB
update	8/27/2010	DBB

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				<i>Complete if Known</i> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Application Number</td> <td>10/403,818</td> </tr> <tr> <td>Filing Date</td> <td>March 31, 2003</td> </tr> <tr> <td>First Named Inventor</td> <td>Alkhatib, Hasan</td> </tr> <tr> <td>Art Unit</td> <td>2442</td> </tr> <tr> <td>Examiner Name</td> <td>Blair, Douglas</td> </tr> </table>		Application Number	10/403,818	Filing Date	March 31, 2003	First Named Inventor	Alkhatib, Hasan	Art Unit	2442	Examiner Name	Blair, Douglas
Application Number	10/403,818														
Filing Date	March 31, 2003														
First Named Inventor	Alkhatib, Hasan														
Art Unit	2442														
Examiner Name	Blair, Douglas														
Sheet	1	of	1	Attorney Docket No: INN0017											

US PATENT DOCUMENTS					
Examiner Initial *	Cite No	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Filing Date If Appropriate
/DB/		US-20010027474	10/04/2001	Nachman et al.	
/DB/		US-20030018912	01/23/2003	Boyle, S. C., et al.	
/DB/		US-20030055978	03/20/2003	Collins, Leonard A.	
/DB/		US-20030208554	11/06/2003	Holder, Helen A.	
/DB/		US-6477565	11/05/2002	Daswani et al.	
/DB/		US-7072935	07/04/2006	Kehoe et al.	
/DB/		US-7120676	10/10/2006	Nelson et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of cited Document	T ²

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No ¹	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 ²
/DB/		"Non-Final Office Action", Application Number 10/233,288, (12/21/2009), 13 pages	
/DB/		"Final Office Action", Application Number 10/403,518, (02/02/2010), 26 pages	

EXAMINER /Douglas Blair/

DATE CONSIDERED 08/27/2010

Substitute Disclosure Statement Form (PTO-1449)
 * 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 Applicant's unique citation designation number (optional) ² Applicant is to place a check mark here if English language Translation is attached

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	33	"virtual community" near2 network\$2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:48
S2	19	S1 and @ad<"20030331"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/14 10:09
S3	5	S2 and ((private or public) with address)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 20:00
S4	45	((virtual near (community or network)) and (private near address\$3) and (public near address\$3) and (IP near address\$2))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 20:04
S5	27	S4 and @ad<"20030331"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 20:04
S6	53	("6226751").URPN.	USPAT	OR	OFF	2006/09/13 20:30
S7	1	"20040249911".pn.	US-PGPUB; USPAT	OR	OFF	2006/09/14 09:59
S8	139	("domain name" or DNS) with (VPN)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/14 10:08
S9	74	S8 and @ad<"20030331"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/14 10:09
S10	22	S9 and (NAT with (public or private))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:59

S11	1801	709/245.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/14 11:02
S12	454	"virtual community"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:49
S13	353	router same (public with address\$3) same (private with address\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:50
S14	353	S13 same S13	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:50
S15	0	S12 same S13	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:50
S16	3	S12 and S13	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:50
S17	0	S16 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:51
S18	387	router same (public with address\$3) and router same (private with address\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:50
S19	260	S18 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:52
S20	0	S19 and S12	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:51
S21	306	rou\$3 with (public near address\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:51

S22	0	S12 same S21	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:52
S23	3	S12 and S21	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:52
S24	0	S23 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:55
S25	1	S12 same public near address \$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:53
S26	0	S12 same (rout\$3 with internet)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:53
S27	1	S12 same private near address \$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:54
S28	15	((community or group) same S13	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:54
S29	7	S28 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:59
S30	85	((group or community) with (member\$4 or belong\$3)) and (NAT with (public or private))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 13:00
S31	49	S30 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 13:01
S32	55	((group or community) with (member\$4 or belong\$3)) and ((group\$1 or community) same rout\$3) and (NAT with (public or private))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 13:25

S33	34	S32 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 13:27
S34	272055	((group or community) with (member\$4 or belong\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 13:25
S35	6111	S34 same server	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 13:25
S36	124	S35 and ((rout\$3 near2 (messag\$3 or communication \$1)) same (firewall or NAT or private))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 13:26
S37	68	S36 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 13:27
S38	35	S37 and "domain name"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 13:27
S39	1	"20020152297".pn.	US-PGPUB; USPAT	OR	OFF	2007/05/25 18:47
S40	706	"virtual community"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 13:57
S41	533	router same (public with address\$3) same (private with address\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 13:57
S42	3	S40 and S41	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 13:57
S43	0	S42 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 13:57

S44	582	router same (public with address\$3) and router same (private with address\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 13:57
S45	321	S44 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 13:57
S46	411	rout\$3 with (public near address\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 13:57
S47	3	S40 and S46	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 13:57
S48	0	S47 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 13:57
S49	25	(community or group) same S41	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 13:57
S50	12	S49 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 13:57
S51	136	((group or community) with (member\$4 or belong\$3)) and (NAT with (public or private))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 13:57
S52	64	S51 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 13:57
S53	77	((group or community) with (member\$4 or belong\$3)) and ((group\$1 or community) same rout\$3) and (NAT with (public or private))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 13:57
S54	42	S53 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 13:57

EX1002

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S65	3296	(Vpn or "virtual private network") with rout\$3	US-PGPUB; USPAT	OR	OFF	2009/01/07 14:05
S66	559	(Vpn or "virtual private network") with regist\$6	US-PGPUB; USPAT	OR	OFF	2009/01/07 14:05
S67	268	S65 and S66	US-PGPUB; USPAT	OR	OFF	2009/01/07 14:06
S68	267	S66 same address\$3	US-PGPUB; USPAT	OR	OFF	2009/01/07 14:06
S69	106	S66 same S65	US-PGPUB; USPAT	OR	OFF	2009/01/07 14:06
S70	60	S68 same S65	US-PGPUB; USPAT	OR	OFF	2009/01/07 14:06
S71	24	S70 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 14:07
S72	16	(Vpn or "virtual private network") with (public near3 domain\$1)	US-PGPUB; USPAT	OR	OFF	2009/01/07 14:29

S73	7	S72 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 14:29
S74	394	(Vpn or "virtual private network") and community with (public near\$3 domain \$1)	US-PGPUB; USPAT	OR	OFF	2009/01/07 14:35
S75	392	(Vpn or "virtual private network") and community with (public near\$2 domain \$1)	US-PGPUB; USPAT	OR	OFF	2009/01/07 14:35
S76	210	S75 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 14:35
S77	5	S76 and S67	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 14:36
S78	2	(Vpn or "virtual private network") and community with (public adj domain\$1)	US-PGPUB; USPAT	OR	OFF	2009/01/07 14:37
S79	232	(Vpn or "virtual private network") and community with (domain\$1)	US-PGPUB; USPAT	OR	OFF	2009/01/07 14:38
S80	18	(Vpn or "virtual private network") and community with (domain\$1 near name \$1)	US-PGPUB; USPAT	OR	OFF	2009/01/07 14:38
S81	9	S80 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 14:39
S82	25	(Vpn or "virtual private network") and domain\$1 and S64	US-PGPUB; USPAT	OR	OFF	2009/01/07 14:41
S83	106	(Vpn or "virtual private network") with communit\$3	US-PGPUB; USPAT	OR	OFF	2009/01/07 14:50
S84	4	S83 same domain	US-PGPUB; USPAT	OR	OFF	2009/01/07 14:50
S85	1	S84 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 14:50
S86	19	S83 and domain adj name\$1	US-PGPUB; USPAT	OR	OFF	2009/01/07 14:52

S87	14	S86 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 14:53
S88	1442	(virtual near2 network) and (virtual near2 address\$3) and regist\$6	US-PGPUB; USPAT	OR	OFF	2009/01/28 10:36
S89	226	(virtual near2 network) and (virtual near2 address\$3) with regist\$6	US-PGPUB; USPAT	OR	OFF	2009/01/28 10:36
S90	115	S89 and (encapsulat\$3 or tunnel\$3)	US-PGPUB; USPAT	OR	OFF	2009/01/28 10:38
S91	81	S90 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/28 10:40
S92	0	S91 and subdomain\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/28 10:41
S93	19	S91 and (virtual near2 domain \$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/28 10:41
S94	33	(virtual near2 network) and (assign\$3 near4 (virtual near2 address\$3)) with regist\$6	US-PGPUB; USPAT	OR	OFF	2009/01/28 10:55
S95	21	S94 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/28 10:55
S96	11	regist\$6 with (p2p or "peer-to- peer" or "peer to peer") same (assign\$5 near2 address\$3)	US-PGPUB; USPAT	OR	OFF	2009/01/28 11:06
S97	11	S96 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/28 11:07
S98	200	regist\$6 with (server\$1 or manag\$5) same (assign\$5 near2 address\$3) same domain\$1	US-PGPUB; USPAT	OR	OFF	2009/01/28 11:09
S99	17536	(broadcast\$3 or multicast\$3) with ((new or join\$3))	US-PGPUB; USPAT	OR	OFF	2009/01/28 11:10
S100	2	S98 same S99	US-PGPUB; USPAT	OR	OFF	2009/01/28 11:10

S101	19	S98 and S99	US-PGPUB; USPAT	OR	OFF	2009/01/28 11:12
S102	13	S101 and (virtual or vpn)	US-PGPUB; USPAT	OR	OFF	2009/01/28 11:12
S103	13	S102 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/28 11:12
S104	156	((virtual near2 network) or vpn) with (domain\$1 near2 (router\$1 or manag\$5 or server\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/28 11:18
S105	78	S104 and ((assign\$5 or regist \$6) with address\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/28 11:19
S106	48	S105 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/28 11:19
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EX1002

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S137	337874	((group or community) with (member\$4 or belong\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S138	9951	S137 same server	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S139	182	S138 and ((rout\$3 near2 (messag\$3 or communication \$1)) same (firewall or NAT or private))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S140	95	S139 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S141	28	(Vpn or "virtual private network") same (assign\$5 near address\$3) same domain \$1	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:46
S142	8	S141 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S143	3751	(Vpn or "virtual private network") with rout\$3	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:46
S144	630	(Vpn or "virtual private network") with regist\$6	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:46
S145	292	S143 and S144	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:46
S146	299	S144 same address\$3	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:46
S147	64	S146 same S143	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:46
S148	26	S147 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S149	18	(Vpn or "virtual private network") with (public near3 domain\$1)	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:46
S150	8	S149 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46

S151	430	(Vpn or "virtual private network") and community with (public near\$2 domain \$1)	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:46
S152	218	S151 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S153	5	S152 and S145	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S154	18	(Vpn or "virtual private network") and community with (domain\$1 near name \$1)	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:46
S155	9	S154 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S156	122	(Vpn or "virtual private network") with communit\$3	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:46
S157	4	S156 same domain	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:46
S158	1	S157 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S159	23	S156 and domain adj name\$1	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:46
S160	18	S159 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S161	120	(S125 S127 S130 S132 S134 S136 S140) and @pd> "20070524"	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:47
S162	36	(S161 S142 S148 S150 S153 S155 S158 S160) and @pd> "20090107"	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:47
S163	241	(virtual near2 network) and (virtual near2 address\$3) with regist\$6	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:57
S164	121	S163 and (encapsulat\$3 or tunnel\$3)	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:57

S165	81	S164 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:57
S166	33	(virtual near2 network) and (assign\$3 near4 (virtual near2 address\$3)) with regist\$6	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:57
S167	21	S166 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:57
S168	11	regist\$6 with (p2p or "peer-to- peer" or "peer to peer") same (assign\$5 near2 address\$3)	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:57
S169	11	S168 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:57
S170	215	regist\$6 with (server\$1 or manag\$5) same (assign\$5 near2 address\$3) same domain\$1	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:57
S171	19164	(broadcast\$3 or multicast\$3) with ((new or join\$3))	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:57
S172	19	S170 and S171	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:57
S173	13	S172 and (virtual or vpn)	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:57
S174	182	((virtual near2 network) or vpn) with (domain\$1 near2 (router\$1 or manag\$5 or server\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:57
S175	89	S174 and ((assign\$5 or regist \$6) with address\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:57
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S180	1	"6430623".pn.	US-PGPUB; USPAT	OR	OFF	2009/08/19 20:29

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Filing Date	March 31, 2003														
First Named Inventor	Alkhatib, Hasan														
Art Unit	2442														
Examiner Name	Blair, Douglas														
Sheet	1	of	1	Attorney Docket No: INNF0017											

US PATENT DOCUMENTS					
Examiner Initial *	Cite No	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS					
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/DB/		"Final Office Action", Application Number 10/403,829, (2/23/2010), 15 pages		
/DB/		"Advisory Action", Application Serial No. 10/403,829, (5/14/2010), 2 pages		

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DATE CONSIDERED 08/27/2010

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¹ Applicant's unique citation designation number (optional) ² Applicant is to place a check mark here if English language Translation is attached

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/DB/		US-20060195539	08/31/2006	Nichols et al.	
/DB/		US-20040088542	05/06/2004	Daude	
/DB/		US-20020103931	08/01/2002	Mott, Charles	
/DB/		US-20080232295	09/25/2008	Kreiner et al.	
/DB/		US-20070286189	12/13/2007	Kreiner et al.	

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/DB/		"Non Final Office Action", <u>Application Serial No. 10/161,573</u> , (5/26/2009),39 pages	
/DB/		"Non Final Office Action", <u>Application Serial No. 10/403,829</u> , (6/22/2009),26 pages	
/DB/		FRANCIS, GUMMADI "IPNL: A NAT-Extended Internet Architecture", SIGCOMM '01, (August 2001),69-79	

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/DB/		US-20020026525	02/28/2002	Armitage, Grenville J.	04/03/2001

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/DB/		TANENBAUM, ANDREW S., "Computer Networks", Third Edition,(1996),1-37	
/DB/		"Excerpts from Help Section of Microsoft Outlook", pertaining to rules and forwarding email,1-3	
/DB/		CHATEL, M "Classical versus Transparent IP Proxies", <u>Network Working Group Request for Comments</u> , (March 1996),1-35	
/DB/		FINSETH, C "An Access Control Protocol , Sometimes Called TACACS", <u>Network Working Group Request for Comments</u> , (July 1993),1-18	
/DB/		FRANCIS, PAUL et al., "IPNL: A NAT-Extended Internet Architecture", <u>SIGCOMM'01</u> , (08/01/08),69-79	
/DB/		PERKINS, CHARLES E., "Mobile IP", <u>IEEE Communications Magazine</u> , Sun Microsystems,(May 1997),84-99	
/DB/		TERAOKA, FUMIO et al., "VIP: A Protocol Providing Host Mobility", <u>Communications of the ACM</u> , Volume 37, No. 8,(August 1994),67-75, 113	
/DB/		TSUCHIYA, PAUL F., et al., "Extending the IP Internet Through Address Reuse", <u>ACM SIGCOMM Computer Communication Review</u> , (January 1993),16-33	
/DB/		VENTERS, TRACY "Demystifying Protocols: A Comparison of Protocols Suitable for IP Telephony", <u>Sonus Networks</u> , (2000),1-11	
/DB/		YALAGANDULA, PRAVEEN et al., "Transparent Mobility with Minimal Infrastructure", <u>University of Texas at Austin</u> , (July 2001),1-14	

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Examiner Initials*	Cite No ¹	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 ²
		"Final Office Action", Application 10/161,573, (07/23/10), 21 pages		
		"Final Office Action", Application 10/233,288, (08/03/10), 15 pages		
		"Non Final Office Action", Application 10/403,518, (08/03/10), 30 pages		
		"Advisory Action", Application 10/233,288, (10/15/10), 3 pages		

EXAMINER

DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)
 * 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 Applicant's unique citation designation number (optional) ² Applicant is to place a check mark here if English language Translation is attached

Electronic Patent Application Fee Transmittal				
Application Number:		10403818		
Filing Date:		31-Mar-2003		
Title of Invention:		Secure virtual community network system		
First Named Inventor/Applicant Name:		Hasan S. Alkhatib		
Filer:		William Breen/Kenneth Linder		
Attorney Docket Number:		INN0017		
Filed as Large Entity				
Utility under 35 USC 111(a) Filing Fees				
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:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
Total in USD (\$)				180

Electronic Acknowledgement Receipt	
EFS ID:	8644867
Application Number:	10403818
International Application Number:	
Confirmation Number:	2698
Title of Invention:	Secure virtual community network system
First Named Inventor/Applicant Name:	Hasan S. Alkhatib
Customer Number:	75671
Filer:	William Breen/Kenneth Linder
Filer Authorized By:	William Breen
Attorney Docket Number:	INN0017
Receipt Date:	18-OCT-2010
Filing Date:	31-MAR-2003
Time Stamp:	15:01:02
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 180
RAM confirmation Number	1219
Deposit Account	504143
Authorized User	SADLER,LANCE R.

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		INNFO017IDS.pdf	163037	yes	3
			c6305fa65a07729ff2f1148a73e09a26bfb43f4b		
	Multipart Description/PDF files in .zip description				
	Document Description	Start	End		
	Transmittal Letter	1	2		
	Information Disclosure Statement (IDS) Filed (SB/08)	3	3		
Warnings:					
Information:					
2	NPL Documents	10161573FinalOA072310.pdf	670335	no	21
			6bb61c5b785828ca3e2f378e05bba93f98b96931		
Warnings:					
Information:					
3	NPL Documents	10233288AdvisoryAction101510.pdf	128307	no	3
			9ee3f232c9fbf8be1049e47c379f0539adab24b4c		
Warnings:					
Information:					
4	NPL Documents	10233288FinalOA080310.pdf	508752	no	15
			9bab6fd8b03aeef78aac54854cea90af4a037415		
Warnings:					
Information:					
5	NPL Documents	10403518NonFinalOA080310.pdf	958760	no	30
			d21a337bef36f60c6fc72857f99395ac2bd8e1b9		
Warnings:					
Information:					
6	Fee Worksheet (PTO-875)	fee-info.pdf	30019	no	2
			4fac6f67d450fa1544354bb9889a33f3657f7deb		
Warnings:					
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Total Files Size (in bytes):			2459210		

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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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Hasan S Alkhatib et al.	Examiner:	Douglas B Blair
Serial No.:	10/403,818	Group Art Unit:	2442
Filed:	March 31, 2003	Docket:	INNF0017
Title:	Secure virtual community network system		

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

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

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the referenced materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Supplemental Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(c)(2), Applicants have included the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p). Please charge any additional fees or credit any overpayment to Deposit Account No. 50-4143.

Pursuant to 37 C.F.R. §1.97(e)(2), Applicant states that no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement.

Pursuant to 37 C.F.R. 1.98(a)(2), Applicant believes that copies of cited U.S. Patents and Published Applications, and Non-Published Applications identifiable by USPTO Serial Number, are no longer required to be provided to the Office. Notification of this change to this effect was provided in the United States Patent and Trademark Office OG Notices dated October 12, 2004

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Serial No :10/403,818

Filing Date: March 31, 2003

Title: Secure virtual community network system

Page 2

Dkt: INNF0017

and October 19, 2004. Thus, Applicant has not included copies of any US Patents or US Patent Applications identifiable by serial number that may be cited with this submission. Should the Office require copies to be provided, Applicant respectfully requests that notice of such requirement be directed to Applicant's below-signed representative. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

Respectfully submitted,

Hasan S Alkhatib et al.

By their Representatives,

Date October 18, 2010

By / Dave Morasch 42905 /

David A. Morasch
Reg. No. 42,905

1 **IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

2 Application Serial No. 10/403,818
3 Filing Date 03/31/2003
4 Inventorship Alkhatib *et al.*
5 Applicant Inpro Network Facility, LLC
6 Group Art Unit 2442
7 Examiner Blair, Douglas B.
8 Confirmation No. 2698
9 Attorney's Docket No. INN0017
10 Title: Secure Virtual Community Network System

11 **RESPONSE TO FINAL OFFICE ACTION DATED SEPTEMBER 01, 2010**

12 To: Commissioner for Patents
13 P.O. Box 1450
14 Alexandria, VA 22313-1450

15 From: David A. Morasch Tel. 509-755-7250
16 Fax 509-755-7252
17 **Customer # 75671**

18 **INDEX**

19 List of Claims: page 2

20 Remarks Section: page 24

LIST OF CLAIMS

Claims 16, 25, 37-40, 44-52, 67, and 101 were previously canceled.

Claims 63 and 77 are canceled without prejudice.

Claims 53-55, 64, and 80 are currently amended.

Claims 1-15, 17-24, 26-36, 41-43, 53-62, 64-66, 68-76, 78-100, and 102-109 are pending:

1. (previously presented) A virtual network system, comprising:

a virtual network manager implemented as a first computing device, the virtual network manager configured to register devices in a virtual network that is defined by a domain name, each device in the virtual network being identified to the other devices by a virtual network address that is unique for each device and not directly routable via a public network, the virtual network manager further configured to distribute a virtual network address to a device when the device is registered in the virtual network;

a route director implemented as a second computing device, the route director configured to communicate data between the devices that are registered in the virtual network, the data being communicated as encapsulated packets from a source device to a destination device, an encapsulated packet including a first virtual network address that corresponds to the source device and a second virtual network address that corresponds to the destination device; and

the virtual network manager further configured to receive a DNS request from the source device, and return a public network address of the route director, a private network address for the destination device, and the second virtual network address that corresponds to the destination device.

1 **2. (previously presented)** The system of claim 1 wherein each of the
2 devices communicate with the virtual network manager and the other devices in the
3 virtual network via an associated agent.

4
5 **3. (previously presented)** The system of claim 1 wherein each of the
6 devices include an agent configured to communicate with the virtual network manager
7 and agents of the other devices in the virtual network.

8
9 **4. (previously presented)** The system of claim 2 wherein the associated
10 agent is installed on a proxy device which is a proxy agent for one or more of the devices
11 in the virtual network with respect to the virtual network manager and the route director.

12
13 **5. (previously presented)** The system of claim 2 wherein the virtual
14 network manager is further configured to:

15 receive a request from the agent associated with a device in a private network to
16 register the device in the virtual network; and

17 detect a presence of a NAT device via which the request is routed from the agent
18 to the virtual network manager.

19
20 **6. (previously presented)** The system of claim 1 wherein the virtual
21 network manager is coupled to the public network and has an associated public network
22 address.
23
24
25

1 **7. (previously presented)** The system of claim 1 wherein the route director
2 is further configured to receive the encapsulated packets when routed to a public network
3 address corresponding to the route director.

4
5 **8. (previously presented)** The system of claim 1 wherein each of the
6 devices in the virtual network are further identified by at least one physical network
7 address.

8
9 **9. (previously presented)** The system of claim 8 wherein the physical
10 network addresses that are associated with the devices in the virtual network are dynamic.

11
12 **10. (previously presented)** The system of claim 8 wherein the physical
13 network addresses that are associated with the devices in the virtual network are static.

14
15 **11. (previously presented)** The system of claim 8 wherein the physical
16 network addresses that are associated with the devices in the virtual network are private
17 network addresses, and wherein the virtual network addresses are unique in the virtual
18 network so as not to conflict with the private network addresses.

19
20 **12. (previously presented)** The system of claim 8 wherein the source device
21 is coupled to a first private network and accesses a public network via a first NAT device
22 configured to transmit the encapsulated packets, an encapsulated packet further including
23 the physical network address of the source device as a private network address in the first
24 private network.

1 **13. (previously presented)** The system of claim 12 wherein the physical
2 network address of the source device is dynamic.

3
4 **14. (previously presented)** The system of claim 12 wherein the physical
5 network address of the source device is static.

6
7 **15. (previously presented)** The system of claim 12 wherein the destination
8 device is coupled to a second private network and accesses the public network via a
9 second NAT device, the encapsulated packet further including the physical network
10 address of the destination device as a private network address in the second private
11 network.

12
13 **16. (canceled)**

14
15 **17. (previously presented)** The system of claim 15 wherein the physical
16 network address of the destination device is dynamic.

17
18 **18. (previously presented)** The system of claim 15 wherein the physical
19 network address of the destination device is static.

20
21 **19. (previously presented)** The system of claim 15 wherein said first private
22 network and said second private network share at least one network address.

1 **20. (previously presented)** The system of claim 1 wherein the route director
2 is further configured to:

3 provide a device-specific pseudo address assignment for the device in the virtual
4 network when the device communicates with the route director via a NAT device; and

5 store an association of the device-specific pseudo address with a public network
6 address of the NAT device and a port number of the NAT device.

7
8 **21. (previously presented)** The system of claim 1 wherein the route director
9 includes a translator for virtual network address information for a device in the virtual
10 network that is implemented in a private network.

11
12 **22. (previously presented)** The system of claim 1 wherein the virtual
13 network manager is coupled to the public network and includes a public network address.

14
15 **23. (previously presented)** The system of claim 22 wherein the route
16 director is coupled to the public network and includes a different public network address
17 than the public network address of the virtual network manager.

18
19 **24. (previously presented)** The system of claim 22 wherein the route
20 director is coupled to a private network and includes a private network address.

21
22 **25. (canceled)**
23
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25

1 **26. (previously presented)** The system of claim 1 wherein the encapsulated
2 packets further include virtual IP packets configured for communication of the data, the
3 virtual IP packets being encrypted prior to being encapsulated.

4
5 **27. (previously presented)** The system of claim 26 wherein the virtual IP
6 packets are encrypted using IPSEC.

7
8 **28. (previously presented)** The system of claim 26 wherein the virtual IP
9 packets are encrypted using DES or triple DES.

10
11 **29. (previously presented)** The system of claim 5 wherein the virtual
12 network manager is further configured to receive the request from the agent as a message,
13 and detect the presence of the NAT device by comparing a field in a payload of the
14 message with a source address in a header of the message.

15
16 **30. (previously presented)** The system of claim 1 wherein the virtual
17 network manager includes a virtual community definition that is defined by the domain
18 name, and includes one or more of the devices that are registered in the virtual network.

19
20 **31. (previously presented)** The system of claim 1 wherein the route director
21 is a public route director in the public network, the system further comprising a private
22 route director in a private network configured to enable access to devices of the private
23 network that are also in the virtual network from devices of the public network that are
24 also in the virtual network.

1 **32. (previously presented)** A virtual network manager, comprising:
2 a network interface configured for data communication via a virtual network that
3 is defined by a domain name having an associated public network address;
4 a register module configured to register devices in a virtual network, the register
5 module further configured to:
6 receive a registration request from an agent associated with a device;
7 distribute a virtual network address to the device when the device is
8 registered in the virtual network, the device being identified to other devices in
9 the virtual network by the virtual network address; and
10 a DNS server for the virtual network, the DNS server configured to receive a
11 DNS request from a first device in the virtual network, and return a network address
12 associated with a network route director, a private network address associated with a
13 second device in the virtual network, and a virtual network address associated with the
14 second device.

15
16 **33. (previously presented)** The virtual network manager of claim 32 further
17 comprising an additional network interface configured for data communication via a
18 public network.

19
20 **34. (previously presented)** The virtual network manager of claim 32 wherein
21 the network interface is a UDP port configured for data communication via the virtual
22 network.
23
24
25

1 **35. (previously presented)** The virtual network manager of claim 33 wherein
2 the network interface is a UDP port configured for data communication via the virtual
3 network, and wherein the additional network interface is a TCP port configured for
4 registration communications via the public network.

5
6 **36. (previously presented)** The virtual network manager of claim 32
7 wherein the register module is further configured to receive the registration request from
8 the agent that is installed on the device for data communication via the virtual network.

9
10 **37-40. (canceled)**

11
12 **41. (previously presented)** The virtual network manager of claim 32 further
13 comprising a join module configured to receive a join request from the agent associated
14 with the device to indicate that the device is connected for data communication within the
15 virtual network, the join module further configured to receive a leave request from the
16 agent associated with the device to indicate that the device will be disconnected from data
17 communication within the virtual network.

18
19 **42. (previously presented)** The virtual network manager of claim 41 wherein
20 the join module is further configured to provide virtual network addresses to the devices
21 that are registered in the virtual network.

1 **43. (previously presented)** The virtual network manager of claim 41 wherein
2 the join module is further configured to maintain data to associate a virtual network
3 address with a device in the virtual network.

4
5 **44-52. (canceled)**

6
7 **53. (currently amended)** A virtual network system, comprising:
8 a computing device that includes at least a memory and a processor configured to
9 implement a network manager of a virtual network that is defined by a public domain
10 name, the network manager configured to distribute virtual network addresses to devices
11 that register as members in the virtual network, each device in the virtual network being
12 identified to the other devices by a virtual network address associated with the device;

13 a first virtual network agent associated with a first device that is registered as a
14 member in the virtual network;

15 at least a second virtual network agent associated with at least a second device
16 that is registered as a member in the virtual network; ~~and~~

17 a route director configured to route communications between the first device and
18 the at least second device in the virtual network via the respective first and second virtual
19 network agents, the communications configured for routing as encapsulated packets that
20 include a first virtual network address that is not directly routable corresponding to the
21 first device and a second virtual network address that is not directly routable
22 corresponding to the at least second device; and

23 the network manager includes a DNS server configured to provide authoritative
24 responses for DNS queries in the virtual network, the DNS server further configured to

1 receive a DNS query from the first device and return a network address of the route
2 director, a network address of the second device, and the virtual network address of the
3 second device.

4
5 **54. (currently amended)** The system of claim 53 wherein the route director
6 is a public network route director that includes a public network interface and ~~an~~
7 ~~associated~~ the network address is a public network address by which the first and second
8 virtual network agents communicate with the public network route director.

9
10 **55. (currently amended)** The system of claim 53 wherein the route director
11 is a private route director that includes a private physical network interface and ~~an~~
12 ~~associated~~ the network address is a private physical network address.

13
14 **56. (previously presented)** The system of claim 53 wherein the first virtual
15 network agent is installed on the first device for data communication via the virtual
16 network.

17
18 **57. (previously presented)** The system of claim 56 wherein the first device is
19 in a private physical network, has an associated private network address, and has the
20 associated virtual network address that is not directly routable by which the first device
21 can be identified by the at least second virtual network agent from outside of the private
22 physical network.

1 **58. (previously presented)** The system of claim 56 wherein the first device is
2 coupled to a public physical network, has an associated public network address, and has
3 the associated virtual network address by which the first device can be identified by the at
4 least second virtual network agent.

5
6 **59. (previously presented)** The system of claim 53 wherein the first virtual
7 network agent is a proxy agent for the first device with respect to the network manager
8 and the route director.

9
10 **60. (previously presented)** The system of claim 53 wherein the first and
11 second devices are configured to access the virtual network from separate private address
12 physical realms.

13
14 **61. (previously presented)** The system of claim 53 wherein the network
15 manager includes at least a first community definition and a second community
16 definition, the first community definition being defined by the public domain name and
17 includes one or more of the devices that are registered in the virtual network, and the
18 second community definition being defined by a different public domain name and
19 includes one or more different devices that are registered in the virtual network.

20
21 **62. (previously presented)** The system of claim 53 wherein the network
22 manager includes a member authenticator configured to authenticate the devices that
23 request to register with the network manager.
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63. (canceled)

64. (currently amended) A computer-implemented method, comprising:

receiving registration requests from devices that request to be registered as members of a virtual network that is defined by a domain name having an associated public network address in a public network, each of the devices having an associated private network address;

distributing a virtual network address to a device to register the device as a member in the virtual network, each device in the virtual network being identified to the other devices by the virtual network address that is associated with the device; ~~and~~

routing communications between the devices that are registered in the virtual network, the communications being routed as encapsulated packets from a source device to a destination device, an encapsulated packet including a first virtual network address that corresponds to the source device and a second virtual network address that corresponds to the destination device; and

transmitting a response to a DNS request received from one of the devices that are the members in the virtual network, the response to the DNS request including a public network address of a route director that registers the devices, a public network address of the destination device, and the second virtual network address that corresponds to the destination device.

65. (previously presented) The method of claim 64 further comprising providing the devices in the virtual network with a communication agent.

1 **66. (previously presented)** The method of claim 65 wherein said providing
2 the devices in the virtual network with a communication agent includes providing a proxy
3 agent.

4
5 **67. (canceled)**

6
7 **68. (previously presented)** The method of claim 64 further comprising
8 authenticating the devices as the members in the virtual network.

9
10 **69. (previously presented)** The method of claim 64 further comprising
11 defining a member set of the virtual network that includes one or more of the devices,
12 and assigning the domain name that defines the virtual network.

13
14 **70. (previously presented)** The method of claim 64 further comprising
15 defining at least two member sets of the virtual network that each include one or more of
16 the devices, the at least two member sets having at least one different device.

17
18 **71. (previously presented)** The method of claim 64 further comprising
19 assigning the virtual network address to the device as an IPV4 compliant address.

20
21 **72. (previously presented)** The method of claim 71 wherein the IPV4
22 compliant address is non-routable.
23
24
25

1 **73. (previously presented)** The method of claim 64 further comprising
2 routing network traffic via the public network from a first device having a public network
3 address to a second device having a different public network address, the network traffic
4 being routed as data packets having a source address which is the virtual network address
5 of the first device and a destination address which is the virtual network address of the
6 second device, the data packets being encapsulated to include a second source address
7 which is a public network address of the first device and a second destination address
8 which is the different public network address of the second device.

9
10 **74. (previously presented)** The method of claim 64 further comprising
11 routing network traffic from a first device in a private physical network having a private
12 network address to a second device having a public network address, the network traffic
13 being routed as data packets having a source address which is the virtual network address
14 of the first device, a destination address which is the virtual network address of the
15 second device, and a shim which includes the private network address, the data packets
16 being encapsulated to include a second destination address which is the public network
17 address of the second device.

1 **75. (previously presented)** The method of claim 64 further comprising
2 routing network traffic from a first device in a private physical network having a first
3 private network address to a second device in a different private physical network having
4 a second private network address, the network traffic being routed as encapsulated
5 packets having a source address which is the virtual network address of the first device, a
6 destination address which is the virtual network address of the second device, and a shim
7 which includes the first and second private network addresses.

8
9 **76. (previously presented)** The method of claim 75 wherein the first private
10 network address and the second private network address are identical.

11
12 **77. (canceled)**

13
14 **78. (previously presented)** The method of claim 64 further comprising:
15 receiving a join status request from a first device in the virtual network as a query
16 to determine the status of a second device in the virtual network; and
17 responding to the join status request to indicate whether or not the second device
18 is joined to the virtual network for data communication.

19
20 **79. (previously presented)** The method of claim 64 further comprising
21 applying a group policy to the devices that are registered as the members of the virtual
22 network.

1 **80. (currently amended)** One or more processor readable storage media
2 comprising processor readable code that, if executed by a computer device, implements a
3 virtual network manager to:

4 receive registration requests from devices that request to be registered as members
5 of a virtual network that is defined by a domain name having an associated public
6 network address in a public network, each of the devices having an associated private
7 network address;

8 distribute a virtual network address to a device to register the device as a member
9 in the virtual network, each device in the virtual network being identified to the other
10 devices by the virtual network address that is associated with the device; ~~and~~

11 manage communications routed between the devices that are registered in the
12 virtual network, the communications routed as encapsulated packets from a source device
13 to a destination device, an encapsulated packet including a first virtual network address
14 that corresponds to the source device and a second virtual network address that
15 corresponds to the destination device; and

16 transmit a response to a DNS request received from one of the devices that are the
17 members in the virtual network, the response to the DNS request including a public
18 network address of the virtual network manager, a public network address of the
19 destination device, and the second virtual network address that corresponds to the
20 destination device.

1 **81. (previously presented)** One or more processor readable storage media as
2 recited in claim 80 further comprising processor readable code that, if executed,
3 implements the virtual network manager to provide the devices in the virtual network
4 with a communication agent.

5
6 **82. (previously presented)** One or more processor readable storage media as
7 recited in claim 81 wherein the virtual network manager provides the as a proxy agent.

8
9 **83. (previously presented)** One or more processor readable storage media as
10 recited in claim 80 further comprising processor readable code that, if executed,
11 implements the virtual network manager to define a member set of the virtual network
12 that includes one or more of the devices, and the domain name that defines the virtual
13 network.

14
15 **84. (previously presented)** One or more processor readable storage media as
16 recited in claim 80 wherein the virtual network address includes a non-routable IPV4
17 compliant address.

18
19 **85. (previously presented)** One or more processor readable storage media as
20 recited in claim 80 further comprising processor readable code that, if executed,
21 implements the virtual network manager to route network traffic via the public network
22 from a first device having a public network address to a second device having a different
23 public network address.
24
25

1 **86. (previously presented)** One or more processor readable storage media as
2 recited in claim 80 further comprising processor readable code that, if executed,
3 implements the virtual network manager to route network traffic from a first device in a
4 private physical network having a private network address to a second device having a
5 public network address.

6
7 **87. (previously presented)** One or more processor readable storage media as
8 recited in claim 80 further comprising processor readable code that, if executed,
9 implements the virtual network manager to route network traffic from a first device in a
10 private physical network having a first private network address to a second device in a
11 different private physical network having a second private network address.

12
13 **88. (previously presented)** One or more processor readable storage media as
14 recited in claim 87 wherein the network traffic is routed to the first or second device via a
15 NAT device.

16
17 **89. (previously presented)** One or more processor readable storage media as
18 recited in claim 87 wherein the first private network address and the second private
19 network address are identical.

20
21 **90. (previously presented)** One or more processor readable storage media as
22 recited in claim 85 wherein the network traffic is routed as encapsulated data packets.
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1 **91. (previously presented)** One or more processor readable storage media as
2 recited in claim 85 wherein the network traffic is routed as encrypted data traffic.

3
4 **92. (previously presented)** One or more processor readable storage media as
5 recited in claim 80 further comprising processor readable code that, if executed,
6 implements the virtual network manager to apply a group policy to the devices that are
7 registered as the members of the virtual network.

8
9 **93. (previously presented)** A virtual network system, comprising:
10 a computing device that includes at least a memory and a processor configured to
11 implement a virtual network manager having a network interface coupled to a virtual
12 network, the virtual network manager including at least one virtual community definition
13 that is defined by a domain name having an associated public network address and a user
14 set of one or more devices that are registered in the virtual network, each device in the
15 virtual network being identified to the other devices by a virtual network address that is
16 associated with the device, the virtual network manager configured to exchange virtual
17 network information with the one or more devices of the user set, the virtual network
18 being accessible by devices in the user set and devices outside of the user set, and the
19 virtual network manager further configured to receive a DNS request from a source
20 device, and return a public network address of a route director, a private network address
21 for a destination device, and a virtual network address that corresponds to the destination
22 device.

1 **94. (original)** The system of claim 93 wherein the virtual network manager
2 includes a member register module.

3
4 **95. (original)** The system of claim 93 wherein the virtual network manager
5 includes a member join module.

6
7 **96. (previously presented)** The system of claim 95 wherein the member join
8 module provides a virtual network address to a device that is registered as a member of
9 the network.

10 **97. (previously presented)** The system of claim 93 wherein the virtual
11 network manager is further configured to maintain data on an association between at least
12 one virtual network address with at least one device that is registered as a member of the
13 network.

14
15 **98. (previously presented)** The system of claim 93 wherein the virtual
16 network manager includes a DNS server for the virtual community network.

17
18 **99. (previously presented)** The system of claim 93 wherein the virtual
19 network manager includes a NAT device detector for devices connecting with the virtual
20 network manager behind a NAT device.

21
22 **100. (previously presented)** The system of claim 93 wherein the virtual
23 network manager includes at least a second virtual community definition.
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101. (canceled)

102. (original) The system of claim 93 wherein the virtual network manager includes a member authenticator.

103. (previously presented) The system of claim 93 wherein the virtual network manager includes a DNS server configured to provide authoritative responses for DNS queries from devices in the virtual community.

104. (previously presented) The system of claim 93 further comprising at least one route director configured to communicate with the one or more devices in the user set.

105. (previously presented) The system of claim 93 wherein each device registered in the network is configured to communicate with the virtual network manager and other devices in the user set via at least one agent.

106. (previously presented) The system of claim 93 wherein the user set includes at least a first device and a second device, and wherein at least one of said first device and said second device is coupled to a first private network and accesses a public network via a NAT device.

1 **107. (original)** The system of claim 106 wherein said first device is coupled to
2 said first private network, and said second device is coupled to a second private network
3 and accesses the public network via a second NAT device.

4
5 **108. (previously presented)** The system of claim 93 wherein communications
6 between the one or more devices in the user set are encrypted.

7
8 **109. (previously presented)** The system of claim 108 wherein the virtual
9 network manager is configured to provide a shared message to the one or more devices in
10 the user set to establish encrypted communications.

REMARKS

Applicant respectfully requests allowance of the application. Claims 63 and 77 have been canceled. Claims 1-15, 17-24, 26-36, 41-43, 53-62, 64-66, 68-76, 78-100, and 102-109 are pending, of which claims 53-55, 64, and 80 have been amended to place the application in condition for allowance.

Allowable Subject Matter

Claims 1-15, 17-24, 26-36, 41-43, and 93-109 have been allowed, and Applicant appreciates the allowability (*Office Action* p. 3). These claims remain unchanged and are in condition for allowance.

The Office indicates that the references do not teach or suggest returning a public network address of a route director, a private network address for a destination device, and a virtual network address that corresponds to the destination device in response to a DNS request in the context of independent claims 1, 32, and 93 (*Office Action* p. 4).

As described below, independent claims 53, 64, and 80 are amended to recite allowable subject matter as indicated by the Office in the context of the allowed claims. Accordingly, all of the pending independent claims include allowable subject matter and the application is in condition for allowance.

35 U.S.C. §102 Rejection

Claims 53-66 and 68-92 are rejected under 35 U.S.C. §102(e) as being anticipated by U.S. Patent No. 6,631,416 to Bendinelli *et al.* (*Office Action* p. 2).

Applicant makes no representation that cited references are prior art. This response and any remarks or comments included herein are not intended to be, and are not to be interpreted as, an admission that the cited references are prior art. Applicant

1 reserves the right to dispose of any cited references under 35 U.S.C. §102 and/or
2 35 U.S.C. §103, including but not limited to, antedating any one or more of the cited
3 references.

4 **Claim 53** recites that “the network manager includes a DNS server configured to
5 provide authoritative responses for DNS queries in the virtual network, the DNS server
6 further configured to receive a DNS query from the first device and return a network
7 address of the route director, a network address of the second device, and the virtual
8 network address of the second device.”

9 Claim 53 has been amended to incorporate features of claim 63 (now canceled)
10 and recites allowable subject matter as described above in the context of the allowed
11 independent claims 1, 32, and 93. Accordingly, claim 53 along with dependent claims
12 54-62 are allowable, and Applicant requests that the §102 rejection be withdrawn.

13
14 **Claim 64** recites “transmitting a response to a DNS request received from one of
15 the devices that are the members in the virtual network, the response to the DNS request
16 including a public network address of a route director that registers the devices, a public
17 network address of the destination device, and the second virtual network address that
18 corresponds to the destination device.”

19 Claim 64 has been amended to incorporate features of claim 77 (now canceled)
20 and recites allowable subject matter as described above in the context of the allowed
21 independent claims 1, 32, and 93. Accordingly, claim 64 along with dependent claims
22 65, 66, 68-76, 78, and 79 are allowable, and Applicant requests that the §102 rejection be
23 withdrawn.
24
25

Claim 80 recites to “transmit a response to a DNS request received from one of the devices that are the members in the virtual network, the response to the DNS request including a public network address of the virtual network manager, a public network address of the destination device, and the second virtual network address that corresponds to the destination device.”

Claim 80 recites allowable subject matter as described above in the context of the allowed independent claims 1, 32, and 93. Accordingly, claim 80 along with dependent claims 81-92 are allowable, and Applicant requests that the §102 rejection be withdrawn.

Conclusion

Applicant submits that all objections and/or rejections of the pending claims 1-15, 17-24, 26-36, 41-43, 53-62, 64-66, 68-76, 78-100, and 102-109 have been addressed, and respectfully requests issuance of the application. If any issues remain that preclude issuance of the application, the Examiner is requested to contact the undersigned attorney before issuing a subsequent Action.

Respectfully Submitted,

Dated: October 21, 2010

By: / Dave Morasch 42905 /
David A. Morasch
SBMC, p.s.
Reg. No. 42,905
(509) 755-7250

Electronic Acknowledgement Receipt	
EFS ID:	8671248
Application Number:	10403818
International Application Number:	
Confirmation Number:	2698
Title of Invention:	Secure virtual community network system
First Named Inventor/Applicant Name:	Hasan S. Alkhatib
Customer Number:	75671
Filer:	William Breen/Kenneth Linder
Filer Authorized By:	William Breen
Attorney Docket Number:	INNF0017
Receipt Date:	21-OCT-2010
Filing Date:	31-MAR-2003
Time Stamp:	12:39:19
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		INNF0017FOAResponse4.pdf	178556 489e9ea9108f3dff05f01e98306271ca397809b1	yes	26

	Multipart Description/PDF files in .zip description		
	Document Description	Start	End
	Amendment After Final	1	1
	Claims	2	23
	Applicant Arguments/Remarks Made in an Amendment	24	26
Warnings:			
Information:			
Total Files Size (in bytes):		178556	
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.			

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.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875					Application or Docket Number 10/403,818		Filing Date 03/31/2003		☐ To be Mailed	
APPLICATION AS FILED – PART I										
(Column 1)			(Column 2)		SMALL ENTITY ☐		OR		OTHER THAN SMALL ENTITY	
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)	RATE (\$)	FEE (\$)	RATE (\$)	FEE (\$)	RATE (\$)	FEE (\$)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A		N/A		N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A		N/A		N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A		N/A		N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X \$	=	OR	X \$	=	X \$	=	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X \$	=	OR	X \$	=	X \$	=	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 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).									
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))										
* If the difference in column 1 is less than zero, enter "0" in column 2.										
APPLICATION AS AMENDED – PART II										
(Column 1)			(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY	
AMENDMENT	10/21/2010	CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	RATE (\$)	ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	* 90	Minus	** 109	= 0	X \$	=	OR	X \$52=	0
	Independent (37 CFR 1.16(h))	* 6	Minus	***8	= 0	X \$	=	OR	X \$220=	0
☐ Application Size Fee (37 CFR 1.16(s))										
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	0
(Column 1)			(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY	
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	RATE (\$)	ADDITIONAL FEE (\$)	
	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))										
						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 number found in the appropriate box in column 1.										

Legal Instrument Examiner:
/Wanda Meredith/

This collection of information is required by 37 CFR 1.16. 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 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.**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/403,818	03/31/2003	Hasan S. Alkhatib	INNFO017	2698

75671 7590 11/05/2010
Sadler, Breen, Morasch & Colby, ps
601 W. Main Ave.
Suite 1300
Spokane, WA 99201

EXAMINER

BLAIR, DOUGLAS B

ART UNIT	PAPER NUMBER
----------	--------------

2442

NOTIFICATION DATE	DELIVERY MODE
-------------------	---------------

11/05/2010

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):

usptocorrespondence@sbsmc-law.com

Office Action Summary	Application No. 10/403,818	Applicant(s) ALKHATIB ET AL.	
	Examiner DOUGLAS B. BLAIR	Art Unit 2442	

-- 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 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, 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 21 October 2010.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ 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

- 4) ☒ Claim(s) 1-15, 17-24, 26-36, 41-43, 53-62, 64-66, 68-76, 78-100 and 102-109 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 53-62, 64-66, 68-76, 78, 79, 93-100 and 102-109 is/are allowed.
- 6) ☒ Claim(s) 1-15, 17-24, 26-36, 41-43 and 80-92 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ 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).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

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).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ 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) | 4) ☐ Interview Summary (PTO-413) |
| 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) ☒ Information Disclosure Statement(s) (PTO/SB/08) | 5) ☐ Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>10/18/2010</u> . | 6) ☐ Other: _____ |

DETAILED ACTION

Response to Amendment/Arguments

The applicant's amendments have overcome the prior art rejections for the reasons argued by the applicant in the remarks filed on 10/21/2010. Though all of the applicant's claims are now allowable over the prior art of record, new rejections are presented in view of 35 USC section 101. The finality of the previous office action is withdrawn.

Interview Summary

The Examiner contacted the applicant's representative, David Morasch (Reg. No. 42,905), on 10/25/2010 and again on 10/28/2010 to discuss a possible Examiner's Amendment to overcome the 35 USC section 101 issues. Mr. Morasch preferred to see the rejections written in the form of an office action before making a response.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-15, 17-24, 26-36, 41-43, and 80-92 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claim 1 is directed towards a system comprising a virtual network manager implemented as a first computing device and a route director implemented as a second computing device. The dependent claims do not explicitly add any other elements to the claimed system. Page 14, lines 4-14 of the applicant's specification states that, "the present invention can be accomplished using,

Art Unit: 2442

hardware, software, or a combination of both hardware and software." The applicant's computing devices are broad enough to cover software according to the applicant's specification. Because the applicant's system is broad enough to cover software per se, it does not fit into any of the statutory categories of invention.

Claim 32 is directed towards virtual network manager comprising a network interface, a register module, and a DNS server. Claim 33 adds an additional network interface and Claim 41 adds a join module. The rest of the dependent claims do not explicitly add any other elements to the claimed system. For the same reasons discussed with respect to claim 1 and its dependents, the applicant's virtual network manager covers software per se.

Claim 80 and its dependents are directed towards one or more processor readable storage media. The applicant's specification (page 14, lines 4-14) provides an open ended definition of the term processor storage media. Because of the broad definition of processor storage media provided by the applicant, the term could be interpreted broadly as cover transitory storage media. Transitory storage media are non-statutory and therefore the applicant's claim is broad enough to cover non-statutory storage media.

Allowable Subject Matter

Claims 53-62, 64-66, 68-76, 78, 79, 93-100, and 102-109 are allowed.

Claims 1-15, 17-24, 26-36, 41-43, and 80-92 are allowable over the prior art of record but are not statutory.

Conclusion

Art Unit: 2442

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DOUGLAS B. BLAIR whose telephone number is (571)272-3893. The examiner can normally be reached on 9:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glen Burgess can be reached on (571) 272-3949. 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.

/Douglas B Blair/
Primary Examiner, Art Unit 2442

Notice of References Cited	Application/Control No. 10/403,818	Applicant(s)/Patent Under Reexamination ALKHATIB ET AL.	
	Examiner DOUGLAS B. BLAIR	Art Unit 2442	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-7,814,228	10-2010	Caronni et al.	709/245
*	B	US-7,787,428	08-2010	Furukawa et al.	370/338
*	C	US-7,653,747	01-2010	Lucco et al.	709/245
	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	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.

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	40	DNS with (virtual\$1 near (domain or name\$1))	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:35
L2	26	L1 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:35
L3	749	regist\$7 with (virtual near2 network\$1)	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:35
L4	161	encapsulat\$3 with (virtual near2 address\$3)	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:35
L5	3	L3 same L4	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:35
L6	222	(virtual near2 network\$1) with domain near name\$1	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:35
L7	0	L3 same L4 same L6	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:35
L8	20	L3 and L4 and L6	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:35
L9	17	L8 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:35
L10	2	(L2 L5 L7 L9) and @pd>"20100107"	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:35
L11	318	(virtual near2 network) and (virtual near2 address\$3) with regist\$6	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:36
L12	143	L11 and (encapsulat\$3 or tunnel\$3)	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:36
L13	89	L12 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/11/01 09:36
L14	37	(virtual near2 network) and (assign\$3 near4 (virtual near2 address\$3)) with regist\$6	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:36
L15	21	L14 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/11/01 09:36
L16	14	regist\$6 with (p2p or "peer-to- peer" or "peer to peer") same (assign\$5 near2 address\$3)	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:36

L17	14	L16 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/11/01 09:36
L18	242	regist\$6 with (server\$1 or manag\$5) same (assign\$5 near2 address\$3) same domain\$1	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:36
L19	23125	(broadcast\$3 or multicast\$3) with ((new or join\$3))	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:36
L20	19	L18 and L19	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:36
L21	13	L20 and (virtual or vpn)	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:36
L22	231	((virtual near2 network) or vpn) with (domain\$1 near2 (router\$1 or manag\$5 or server\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/11/01 09:36
L23	107	L22 and ((assign\$5 or regist \$6) with address\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/11/01 09:36
L24	52	L23 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/11/01 09:36
L25	15	(L13 L15 L17 L21 L24) and @pd>"20090128"	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:36
L26	12	L25 and @pd>"20090819"	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:36
S1	33	"virtual community" near2 network\$2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:48
S2	19	S1 and @ad<"20030331"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/14 10:09
S3	5	S2 and ((private or public) with address)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 20:00

S4	45	((virtual near (community or network)) and (private near address\$3) and (public near address\$3) and (IP near address\$2))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 20:04
S5	27	S4 and @ad<"20030331"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 20:04
S6	53	("6226751").URPN.	USPAT	OR	OFF	2006/09/13 20:30
S7	1	"20040249911".pn.	US-PGPUB; USPAT	OR	OFF	2006/09/14 09:59
S8	139	("domain name" or DNS) with (VPN)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/14 10:08
S9	74	S8 and @ad<"20030331"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/14 10:09
S10	22	S9 and (NAT with (public or private))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:59
S11	1801	709/245.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/14 11:02
S12	454	"virtual community"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:49
S13	353	router same (public with address\$3) same (private with address\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:50
S14	353	S13 same S13	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:50
S15	0	S12 same S13	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:50

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S61	1008	(Vpn or "virtual private network") and (assign\$5 near address\$3) and domain\$1	US-PGPUB; USPAT	OR	OFF	2009/01/07 14:01
S62	25	(Vpn or "virtual private network") same (assign\$5 near address\$3) same domain \$1	US-PGPUB; USPAT	OR	OFF	2009/01/07 14:02
S63	8	S62 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 14:02
S64	196	("20020078198" "20020133534" "20030041091" "20030041136" "20030084162" "20030212795" "20040006708" "20040111612" "20040148439" "5361256" "5563878" "5623605" "5701427" "5717687" "5734651" "5751961" "5764906" "5777989" "5781550" "5790548" "5793763" "5805818" "5805820" "5815664" "5856974" "5867667" "5884246" "5889953" "5913210" "5937162" "5937163" "6226751" "6594704" "6701437" "6832322" "6970941" "6003084" "6006272" "6032196" "6047325" "6055575" "6061738" "6119171" "6353614" "6353886" "6381638" "6430622" "6430623" "6438597" "6438612" "6452925" "6457061" "6480508" "6490289" "6496867" "6507873" "6523068" "6556584" "6557037" "6557306" "6591306" "6618757" "6629137" "6631416" "6651101" "6657991" "6662223" "6697377" "6742045" "6747979" "6754706" "6772210" "6778528" "6779035" "6781982" "6948003" "6973485" "6981020" "6982953" "6983319" "6993012" "6993595" "6996628" "6996631")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 14:04

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S65	3296	(Vpn or "virtual private network") with rout\$3	US-PGPUB; USPAT	OR	OFF	2009/01/07 14:05
S66	559	(Vpn or "virtual private network") with regist\$6	US-PGPUB; USPAT	OR	OFF	2009/01/07 14:05
S67	268	S65 and S66	US-PGPUB; USPAT	OR	OFF	2009/01/07 14:06
S68	267	S66 same address\$3	US-PGPUB; USPAT	OR	OFF	2009/01/07 14:06
S69	106	S66 same S65	US-PGPUB; USPAT	OR	OFF	2009/01/07 14:06
S70	60	S68 same S65	US-PGPUB; USPAT	OR	OFF	2009/01/07 14:06
S71	24	S70 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 14:07
S72	16	(Vpn or "virtual private network") with (public near3 domain\$1)	US-PGPUB; USPAT	OR	OFF	2009/01/07 14:29
S73	7	S72 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 14:29
S74	394	(Vpn or "virtual private network") and community with (public near\$3 domain \$1)	US-PGPUB; USPAT	OR	OFF	2009/01/07 14:35
S75	392	(Vpn or "virtual private network") and community with (public near\$2 domain \$1)	US-PGPUB; USPAT	OR	OFF	2009/01/07 14:35
S76	210	S75 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 14:35
S77	5	S76 and S67	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 14:36
S78	2	(Vpn or "virtual private network") and community with (public adj domain\$1)	US-PGPUB; USPAT	OR	OFF	2009/01/07 14:37

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S93	19	S91 and (virtual near2 domain \$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/28 10:41
S94	33	(virtual near2 network) and (assign\$3 near4 (virtual near2 address\$3)) with regist\$6	US-PGPUB; USPAT	OR	OFF	2009/01/28 10:55
S95	21	S94 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/28 10:55
S96	11	regist\$6 with (p2p or "peer-to-peer" or "peer to peer") same (assign\$5 near2 address\$3)	US-PGPUB; USPAT	OR	OFF	2009/01/28 11:06
S97	11	S96 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/28 11:07
S98	200	regist\$6 with (server\$1 or manag\$5) same (assign\$5 near2 address\$3) same domain\$1	US-PGPUB; USPAT	OR	OFF	2009/01/28 11:09
S99	17536	(broadcast\$3 or multicast\$3) with ((new or join\$3))	US-PGPUB; USPAT	OR	OFF	2009/01/28 11:10
S100	2	S98 same S99	US-PGPUB; USPAT	OR	OFF	2009/01/28 11:10
S101	19	S98 and S99	US-PGPUB; USPAT	OR	OFF	2009/01/28 11:12
S102	13	S101 and (virtual or vpn)	US-PGPUB; USPAT	OR	OFF	2009/01/28 11:12
S103	13	S102 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/28 11:12
S104	156	((virtual near2 network) or vpn) with (domain\$1 near2 (router\$1 or manag\$5 or server\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/28 11:18
S105	78	S104 and ((assign\$5 or regist\$6) with address\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/28 11:19
S106	48	S105 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/28 11:19

S107	277	("20030005334" "20030126467" "20030196122" "20040073812" "20040088586" "20040088706" "20040098624" "20040103321" "20040103322" "20050021595" "20050022030" "20050149747" "20050229248" "20050235346" "20050235347" "20050235348" "20050235359" "20060005236" "20060021020" "20060053486" "20060075139" "20060112276" "20060112424" "20060288408" "20070101421" "4713753" "4727243" "4799153" "4799156" "4802217" "4823338" "4893307" "4896319" "4914619" "4926416" "4985889" "4991204" "5023907" "5048081" "5067123" "5084867" "5091903" "5101404" "5115431" "5124984" "5138712" "5166931" "5168492" "5185743" "5185860" "5191611" "5204857" "5204897" "5208811" "5214646" "5216669" "5218602" "5231631" "5233607" "5241594" "5249178" "5253247" "5255266" "5258752" "5258979" "5260999" "5271010" "5274680" "5282244" "5285441" "5311509" "5311596" "5321727" "5323389" "5339318" "5345443" "5345445" "5345446" "5351146" "5375206" "5392402" "5394393" "5394398" "5394402" "5412654" "5414701" "5416842" "5420857" "5420858" "5422882" "5425090" "5426636" "5428607" "5428609"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/28 11:34
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S112 with (encapsulat\$4 or tunnel\$3)
S113 and (@ad< "20030331" @rlad< "20030331")
S114 and ((domain\$1 near name\$1) or dns)

S116	12	("20020055917" "20020188689" "20040059598" "20040060056" "5418628" "5602843" "5924074" "6052442" "6305007" "6810429" "7117246" "7224698").PN. OR ("7474667").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/28 16:15
S117	34	("20020046292" "20020055917" "20020069261" "20020136223" "20020188689" "20030212657" "20030217333" "20040059598" "20040060056" "20040100974" "20040100975" "20050111467" "20060248208" "5418628" "5924074" "6002689" "6016307" "6026091" "6052442" "6098138" "6104718" "6129449" "6178170" "6181703" "6226686" "6305007" "6385198" "6434403" "6456594" "6466236" "6810429" "6973479" "7114171" "7117246").PN. OR ("7379464").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/28 16:16
S118	30	("20020010758" "20020055917" "20020136223" "20020188689" "20040059598" "20040060056" "20040100974" "20040100975" "5418628" "5924074" "6002689" "6016307" "6026091" "6052442" "6098138" "6104718" "6129449" "6178170" "6181703" "6226686" "6305007" "6385198" "6434403" "6456594" "6466236" "6810429" "6973479" "7114170" "7114171" "7117246").PN. OR ("7263102").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/28 16:18

S119	29	("20020055917" "20020136223" "20020188689" "20040059598" "20040060056" "20040100974" "20040100975" "5418628" "5924074" "6002689" "6016307" "6026091" "6052442" "6098138" "6104718" "6129449" "6178170" "6181703" "6226686" "6305007" "6385198" "6434403" "6456594" "6466236" "6810429" "6973479" "7114171" "7117246").PN. OR ("7224698").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/28 16:19
S120	93	("20020078198" "20020133534" "20030041091" "20030041136" "20030084162" "20030212795" "20040006708" "20040111612" "20040148439" "5361256" "5563878" "5623605" "5701427" "5717687" "5734651" "5751961" "5764906" "5777989" "5781550" "5790548" "5793763" "5805818" "5805820" "5815664" "5856974" "5867667" "5884246" "5889953" "5913210" "5937162" "5937163" "6226751" "6594704" "6701437" "6832322" "6970941" "6003084" "6006272" "6032196" "6047325" "6055575" "6061738" "6119171" "6353614" "6353886" "6381638" "6430622" "6430623" "6438597" "6438612" "6452925" "6457061" "6480508" "6490289" "6496867" "6507873" "6523068" "6556584" "6557037" "6557306" "6591306" "6618757" "6629137" "6631416" "6651101" "6657991" "6662223" "6697377" "6742045" "6747979" "6754706" "6772210"	US-PGPUB; USPAT	OR	OFF	2009/01/29 16:27

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S141	28	(Vpn or "virtual private network") same (assign\$5 near address\$3) same domain \$1	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:46
S142	8	S141 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S143	3751	(Vpn or "virtual private network") with rout\$3	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:46
S144	630	(Vpn or "virtual private network") with regist\$6	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:46
S145	292	S143 and S144	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:46
S146	299	S144 same address\$3	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:46
S147	64	S146 same S143	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:46
S148	26	S147 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S149	18	(Vpn or "virtual private network") with (public near3 domain\$1)	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:46
S150	8	S149 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S151	430	(Vpn or "virtual private network") and community with (public near\$2 domain \$1)	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:46
S152	218	S151 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S153	5	S152 and S145	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S154	18	(Vpn or "virtual private network") and community with (domain\$1 near name \$1)	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:46

S155	9	S154 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S156	122	(Vpn or "virtual private network") with communit\$3	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:46
S157	4	S156 same domain	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:46
S158	1	S157 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S159	23	S156 and domain adj name\$1	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:46
S160	18	S159 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S161	120	(S125 S127 S130 S132 S134 S136 S140) and @pd> "20070524"	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:47
S162	36	(S161 S142 S148 S150 S153 S155 S158 S160) and @pd> "20090107"	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:47
S163	241	(virtual near2 network) and (virtual near2 address\$3) with regist\$6	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:57
S164	121	S163 and (encapsulat\$3 or tunnel\$3)	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:57
S165	81	S164 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:57
S166	33	(virtual near2 network) and (assign\$3 near4 (virtual near2 address\$3)) with regist\$6	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:57
S167	21	S166 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:57
S168	11	regist\$6 with (p2p or "peer-to-peer" or "peer to peer") same (assign\$5 near2 address\$3)	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:57
S169	11	S168 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:57

EX1002

EAST Search History (Interference)

11/ 1/ 10 9:39:58 AM

EX1002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Serial No. 10/403,818
Filing Date 03/31/2003
Inventorship Alkhatib *et al.*
Applicant Inpro Network Facility, LLC
Group Art Unit 2442
Examiner Blair, Douglas B.
Confirmation No. 2698
Attorney's Docket No. INN0017
Title: Secure Virtual Community Network System

RESPONSE TO FINAL OFFICE ACTION DATED SEPTEMBER 01, 2010

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

From: David A. Morasch Tel. 509-755-7250
Fax 509-755-7252
Customer # 75671

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List of Claims: page 2

Remarks Section: page 24

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Application Number</td> <td>10/403,818</td> </tr> <tr> <td>Filing Date</td> <td>March 31, 2003</td> </tr> <tr> <td>First Named Inventor</td> <td>Alkhatib, Hasan</td> </tr> <tr> <td>Art Unit</td> <td>2442</td> </tr> <tr> <td>Examiner Name</td> <td>Blair, Douglas</td> </tr> <tr> <td colspan="2" style="height: 20px;"></td> </tr> </table>		Application Number	10/403,818	Filing Date	March 31, 2003	First Named Inventor	Alkhatib, Hasan	Art Unit	2442	Examiner Name	Blair, Douglas		
Application Number	10/403,818																
Filing Date	March 31, 2003																
First Named Inventor	Alkhatib, Hasan																
Art Unit	2442																
Examiner Name	Blair, Douglas																
Sheet	1	of	1	Attorney Docket No: INN0017													

US PATENT DOCUMENTS					
Examiner Initial *	Cite No	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of cited Document	T ²

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No ¹	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 ²	
/DB/		"Final Office Action", Application 10/161,573, (07/23/10), 21 pages		
/DB/		"Final Office Action", Application 10/233,288, (08/03/10), 15 pages		
/DB/		"Non Final Office Action", Application 10/403,518, (08/03/10), 30 pages		
/DB/		"Advisory Action", Application 10/233,288, (10/15/10), 3 pages		

EXAMINER /Douglas Blair/

DATE CONSIDERED 10/26/2010

Substitute Disclosure Statement Form (PTO-1449)
 * 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 Applicant's unique citation designation number (optional) ² Applicant is to place a check mark here if English language Translation is attached

Index of Claims 	Application/Control No. 10403818	Applicant(s)/Patent Under Reexamination ALKHATIB ET AL.
	Examiner DOUGLAS B BLAIR	Art Unit 2442

✓	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
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Index of Claims 	Application/Control No. 10403818	Applicant(s)/Patent Under Reexamination ALKHATIB ET AL.
	Examiner DOUGLAS B BLAIR	Art Unit 2442

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	72	✓	✓	=									

Index of Claims 	Application/Control No. 10403818	Applicant(s)/Patent Under Reexamination ALKHATIB ET AL.
	Examiner DOUGLAS B BLAIR	Art Unit 2442

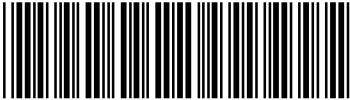
✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant										
☐ CPA										
☐ T.D.										
☐ R.1.47										
CLAIM		DATE								
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<i>Index of Claims</i> 	Application/Control No. 10403818	Applicant(s)/Patent Under Reexamination ALKHATIB ET AL.
	Examiner DOUGLAS B BLAIR	Art Unit 2442

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CLAIM		DATE													
Final	Original	01/29/2009	08/27/2010	10/27/2010											
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Search Notes 	Application/Control No. 10403818	Applicant(s)/Patent Under Reexamination ALKHATIB ET AL.
	Examiner DOUGLAS B BLAIR	Art Unit 2442

SEARCHED			
Class	Subclass	Date	Examiner
	update	1/28/2009	DBB
	update	8/19/2009	DBB
	update	8/27/2010	DBB
	update	11/1/2010	DBB

SEARCH NOTES		
Search Notes	Date	Examiner
update	1/28/2009	DBB
inventor name search	1/28/2009	DBB
update	8/19/2009	DBB
update	8/27/2010	DBB
update	11/1/2010	DBB

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. 10/403,818
 Confirmation No. 2698
 Filing Date March 31, 2003
 5 Inventorship Alkhatib, Hasan S.
 Assignee Inpro Network Facility, LLC
 Group Art Unit 2442
 Examiner Blair, Douglas B.
 Attorney's Docket No. INNFO017
 10 Title: Secure Virtual Community Network System

NOTIFICATION OF LOSS OF ENTITLEMENT TO SMALL ENTITY STATUS

15 To: Honorable Commissioner of Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

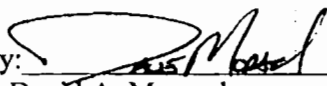
20 From: David A. Morasch (Tel. 509-755-7250; Fax 509-755-7252)
 Sadler, Breen, Morasch & Colby, p.s.
 601 W. Main Avenue, Suite 1300
 Spokane, WA 99201

Customer No. 75671

25 Due to an assignment of ownership in the above application, the entity status of the
 Assignee in this application should be changed to Large Entity Status.

Respectfully Submitted,

30 Date: Nov 5/2010

By: 

David A. Morasch
 Reg. No. 42,905
 Attorney for Applicant
 Sadler, Breen, Morasch & Colby, PS
 601 W. Main Avenue, Suite 1300
 Spokane, Washington 99201
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 Facsimile: (509) 755-7252

1 **IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

2 Application Serial No. 10/403,818
3 Filing Date 03/31/2003
4 Inventorship Alkhatib *et al.*
5 Applicant Inpro Network Facility, LLC
6 Group Art Unit 2442
7 Examiner Blair, Douglas B.
8 Confirmation No. 2698
9 Attorney's Docket No. INN0017
10 Title: Secure Virtual Community Network System

11 **RESPONSE TO OFFICE ACTION DATED NOVEMBER 05, 2010**

12 To: Commissioner for Patents
13 P.O. Box 1450
14 Alexandria, VA 22313-1450

15 From: David A. Morasch Tel. 509-755-7250
16 Fax 509-755-7252
17 **Customer # 75671**

18 **INDEX**

19 List of Claims: page 2

20 Remarks Section: page 26

LIST OF CLAIMS

Claims 16, 25, 37-40, 44-52, 63, 67, 77, and 101 were previously canceled.

Claims 1-15, 17-24, 26-36, 41-43, 53-62, 64-66, 68-76, 78-100, and 102-109 are pending, of which claims 1, 32, and 80-92 are currently amended:

1. (currently amended) A virtual network system, comprising:

a virtual network manager implemented [[as]] with a first device memory and a first device processor of a first computing device, the virtual network manager configured to register devices in a virtual network that is defined by a domain name, each device in the virtual network being identified to the other devices by a virtual network address that is unique for each device and not directly routable via a public network, the virtual network manager further configured to distribute a virtual network address to a device when the device is registered in the virtual network;

a route director implemented [[as]] with a second device memory and a second device processor of a second computing device, the route director configured to communicate data between the devices that are registered in the virtual network, the data being communicated as encapsulated packets from a source device to a destination device, an encapsulated packet including a first virtual network address that corresponds to the source device and a second virtual network address that corresponds to the destination device; and

the virtual network manager further configured to receive a DNS request from the source device, and return a public network address of the route director, a private network

1 address for the destination device, and the second virtual network address that
2 corresponds to the destination device.

3
4 **2. (previously presented)** The system of claim 1 wherein each of the
5 devices communicate with the virtual network manager and the other devices in the
6 virtual network via an associated agent.

7
8 **3. (previously presented)** The system of claim 1 wherein each of the
9 devices include an agent configured to communicate with the virtual network manager
10 and agents of the other devices in the virtual network.

11
12 **4. (previously presented)** The system of claim 2 wherein the associated
13 agent is installed on a proxy device which is a proxy agent for one or more of the devices
14 in the virtual network with respect to the virtual network manager and the route director.

15
16 **5. (previously presented)** The system of claim 2 wherein the virtual
17 network manager is further configured to:

18 receive a request from the agent associated with a device in a private network to
19 register the device in the virtual network; and

20 detect a presence of a NAT device via which the request is routed from the agent
21 to the virtual network manager.
22
23
24
25

1 **6. (previously presented)** The system of claim 1 wherein the virtual
2 network manager is coupled to the public network and has an associated public network
3 address.
4

5 **7. (previously presented)** The system of claim 1 wherein the route director
6 is further configured to receive the encapsulated packets when routed to a public network
7 address corresponding to the route director.
8

9 **8. (previously presented)** The system of claim 1 wherein each of the
10 devices in the virtual network are further identified by at least one physical network
11 address.
12

13 **9. (previously presented)** The system of claim 8 wherein the physical
14 network addresses that are associated with the devices in the virtual network are dynamic.
15

16 **10. (previously presented)** The system of claim 8 wherein the physical
17 network addresses that are associated with the devices in the virtual network are static.
18

19 **11. (previously presented)** The system of claim 8 wherein the physical
20 network addresses that are associated with the devices in the virtual network are private
21 network addresses, and wherein the virtual network addresses are unique in the virtual
22 network so as not to conflict with the private network addresses.
23
24
25

1 **12. (previously presented)** The system of claim 8 wherein the source device
2 is coupled to a first private network and accesses a public network via a first NAT device
3 configured to transmit the encapsulated packets, an encapsulated packet further including
4 the physical network address of the source device as a private network address in the first
5 private network.

6
7 **13. (previously presented)** The system of claim 12 wherein the physical
8 network address of the source device is dynamic.

9
10 **14. (previously presented)** The system of claim 12 wherein the physical
11 network address of the source device is static.

12
13 **15. (previously presented)** The system of claim 12 wherein the destination
14 device is coupled to a second private network and accesses the public network via a
15 second NAT device, the encapsulated packet further including the physical network
16 address of the destination device as a private network address in the second private
17 network.

18
19 **16. (canceled)**
20

21
22 **17. (previously presented)** The system of claim 15 wherein the physical
23 network address of the destination device is dynamic.
24
25

1 **18. (previously presented)** The system of claim 15 wherein the physical
2 network address of the destination device is static.

3 **19. (previously presented)** The system of claim 15 wherein said first private
4 network and said second private network share at least one network address.
5

6 **20. (previously presented)** The system of claim 1 wherein the route director
7 is further configured to:
8

9 provide a device-specific pseudo address assignment for the device in the virtual
10 network when the device communicates with the route director via a NAT device; and

11 store an association of the device-specific pseudo address with a public network
12 address of the NAT device and a port number of the NAT device.
13

14 **21. (previously presented)** The system of claim 1 wherein the route director
15 includes a translator for virtual network address information for a device in the virtual
16 network that is implemented in a private network.
17

18 **22. (previously presented)** The system of claim 1 wherein the virtual
19 network manager is coupled to the public network and includes a public network address.
20

21 **23. (previously presented)** The system of claim 22 wherein the route
22 director is coupled to the public network and includes a different public network address
23 than the public network address of the virtual network manager.
24
25

1 **24. (previously presented)** The system of claim 22 wherein the route
2 director is coupled to a private network and includes a private network address.

3
4 **25. (canceled)**

5
6 **26. (previously presented)** The system of claim 1 wherein the encapsulated
7 packets further include virtual IP packets configured for communication of the data, the
8 virtual IP packets being encrypted prior to being encapsulated.

9
10 **27. (previously presented)** The system of claim 26 wherein the virtual IP
11 packets are encrypted using IPSEC.

12
13 **28. (previously presented)** The system of claim 26 wherein the virtual IP
14 packets are encrypted using DES or triple DES.

15
16 **29. (previously presented)** The system of claim 5 wherein the virtual
17 network manager is further configured to receive the request from the agent as a message,
18 and detect the presence of the NAT device by comparing a field in a payload of the
19 message with a source address in a header of the message.

20
21 **30. (previously presented)** The system of claim 1 wherein the virtual
22 network manager includes a virtual community definition that is defined by the domain
23 name, and includes one or more of the devices that are registered in the virtual network.
24

1 **31. (previously presented)** The system of claim 1 wherein the route director
2 is a public route director in the public network, the system further comprising a private
3 route director in a private network configured to enable access to devices of the private
4 network that are also in the virtual network from devices of the public network that are
5 also in the virtual network.

6
7 **32. (currently amended)** A virtual network manager, comprising:
8 a network interface configured for data communication via a virtual network that
9 is defined by a domain name having an associated public network address;
10 a memory and a processor to implement a register module configured to register
11 devices in a virtual network, the register module further configured to:

12 receive a registration request from an agent associated with a device;

13 distribute a virtual network address to the device when the device is
14 registered in the virtual network, the device being identified to other devices in
15 the virtual network by the virtual network address; and

16 a DNS server for the virtual network, the DNS server configured to receive a
17 DNS request from a first device in the virtual network, and return a network address
18 associated with a network route director, a private network address associated with a
19 second device in the virtual network, and a virtual network address associated with the
20 second device.
21
22
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25

1 **33. (previously presented)** The virtual network manager of claim 32 further
2 comprising an additional network interface configured for data communication via a
3 public network.

4 **34. (previously presented)** The virtual network manager of claim 32 wherein
5 the network interface is a UDP port configured for data communication via the virtual
6 network.

7 **35. (previously presented)** The virtual network manager of claim 33 wherein
8 the network interface is a UDP port configured for data communication via the virtual
9 network, and wherein the additional network interface is a TCP port configured for
10 registration communications via the public network.
11
12

13 **36. (previously presented)** The virtual network manager of claim 32
14 wherein the register module is further configured to receive the registration request from
15 the agent that is installed on the device for data communication via the virtual network.
16
17

18 **37-40. (canceled)**
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1 **41. (previously presented)** The virtual network manager of claim 32 further
2 comprising a join module configured to receive a join request from the agent associated
3 with the device to indicate that the device is connected for data communication within the
4 virtual network, the join module further configured to receive a leave request from the
5 agent associated with the device to indicate that the device will be disconnected from data
6 communication within the virtual network.

7
8 **42. (previously presented)** The virtual network manager of claim 41 wherein
9 the join module is further configured to provide virtual network addresses to the devices
10 that are registered in the virtual network.

11
12 **43. (previously presented)** The virtual network manager of claim 41 wherein
13 the join module is further configured to maintain data to associate a virtual network
14 address with a device in the virtual network.

15
16 **44-52. (canceled)**
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53. (previously presented) A virtual network system, comprising:

a computing device that includes at least a memory and a processor configured to implement a network manager of a virtual network that is defined by a public domain name, the network manager configured to distribute virtual network addresses to devices that register as members in the virtual network, each device in the virtual network being identified to the other devices by a virtual network address associated with the device;

a first virtual network agent associated with a first device that is registered as a member in the virtual network;

at least a second virtual network agent associated with at least a second device that is registered as a member in the virtual network;

a route director configured to route communications between the first device and the at least second device in the virtual network via the respective first and second virtual network agents, the communications configured for routing as encapsulated packets that include a first virtual network address that is not directly routable corresponding to the first device and a second virtual network address that is not directly routable corresponding to the at least second device; and

the network manager includes a DNS server configured to provide authoritative responses for DNS queries in the virtual network, the DNS server further configured to receive a DNS query from the first device and return a network address of the route director, a network address of the second device, and the virtual network address of the second device.

1 **54. (previously presented)** The system of claim 53 wherein the route
2 director is a public network route director that includes a public network interface and the
3 network address is a public network address by which the first and second virtual
4 network agents communicate with the public network route director.

5
6 **55. (previously presented)** The system of claim 53 wherein the route
7 director is a private route director that includes a private physical network interface and
8 the network address is a private physical network address.

9
10 **56. (previously presented)** The system of claim 53 wherein the first virtual
11 network agent is installed on the first device for data communication via the virtual
12 network.

13
14 **57. (previously presented)** The system of claim 56 wherein the first device is
15 in a private physical network, has an associated private network address, and has the
16 associated virtual network address that is not directly routable by which the first device
17 can be identified by the at least second virtual network agent from outside of the private
18 physical network.

19
20 **58. (previously presented)** The system of claim 56 wherein the first device is
21 coupled to a public physical network, has an associated public network address, and has
22 the associated virtual network address by which the first device can be identified by the at
23 least second virtual network agent.
24

1 **59. (previously presented)** The system of claim 53 wherein the first virtual
2 network agent is a proxy agent for the first device with respect to the network manager
3 and the route director.
4

5 **60. (previously presented)** The system of claim 53 wherein the first and
6 second devices are configured to access the virtual network from separate private address
7 physical realms.
8

9 **61. (previously presented)** The system of claim 53 wherein the network
10 manager includes at least a first community definition and a second community
11 definition, the first community definition being defined by the public domain name and
12 includes one or more of the devices that are registered in the virtual network, and the
13 second community definition being defined by a different public domain name and
14 includes one or more different devices that are registered in the virtual network.
15
16

17 **62. (previously presented)** The system of claim 53 wherein the network
18 manager includes a member authenticator configured to authenticate the devices that
19 request to register with the network manager.
20

21 **63. (canceled)**
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1 **64. (previously presented)** A computer-implemented method, comprising:
2 receiving registration requests from devices that request to be registered as
3 members of a virtual network that is defined by a domain name having an associated
4 public network address in a public network, each of the devices having an associated
5 private network address;

6 distributing a virtual network address to a device to register the device as a
7 member in the virtual network, each device in the virtual network being identified to the
8 other devices by the virtual network address that is associated with the device;

9 routing communications between the devices that are registered in the virtual
10 network, the communications being routed as encapsulated packets from a source device
11 to a destination device, an encapsulated packet including a first virtual network address
12 that corresponds to the source device and a second virtual network address that
13 corresponds to the destination device; and

14 transmitting a response to a DNS request received from one of the devices that are
15 the members in the virtual network, the response to the DNS request including a public
16 network address of a route director that registers the devices, a public network address of
17 the destination device, and the second virtual network address that corresponds to the
18 destination device.

19
20 **65. (previously presented)** The method of claim 64 further comprising
21 providing the devices in the virtual network with a communication agent.
22
23
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25

1 **66. (previously presented)** The method of claim 65 wherein said providing
2 the devices in the virtual network with a communication agent includes providing a proxy
3 agent.
4

5 **67. (canceled)**
6

7 **68. (previously presented)** The method of claim 64 further comprising
8 authenticating the devices as the members in the virtual network.
9

10 **69. (previously presented)** The method of claim 64 further comprising
11 defining a member set of the virtual network that includes one or more of the devices,
12 and assigning the domain name that defines the virtual network.
13

14 **70. (previously presented)** The method of claim 64 further comprising
15 defining at least two member sets of the virtual network that each include one or more of
16 the devices, the at least two member sets having at least one different device.
17

18 **71. (previously presented)** The method of claim 64 further comprising
19 assigning the virtual network address to the device as an IPV4 compliant address.
20

21 **72. (previously presented)** The method of claim 71 wherein the IPV4
22 compliant address is non-routable.
23
24
25

1 **73. (previously presented)** The method of claim 64 further comprising
2 routing network traffic via the public network from a first device having a public network
3 address to a second device having a different public network address, the network traffic
4 being routed as data packets having a source address which is the virtual network address
5 of the first device and a destination address which is the virtual network address of the
6 second device, the data packets being encapsulated to include a second source address
7 which is a public network address of the first device and a second destination address
8 which is the different public network address of the second device.

9
10 **74. (previously presented)** The method of claim 64 further comprising
11 routing network traffic from a first device in a private physical network having a private
12 network address to a second device having a public network address, the network traffic
13 being routed as data packets having a source address which is the virtual network address
14 of the first device, a destination address which is the virtual network address of the
15 second device, and a shim which includes the private network address, the data packets
16 being encapsulated to include a second destination address which is the public network
17 address of the second device.

1 **75. (previously presented)** The method of claim 64 further comprising
2 routing network traffic from a first device in a private physical network having a first
3 private network address to a second device in a different private physical network having
4 a second private network address, the network traffic being routed as encapsulated
5 packets having a source address which is the virtual network address of the first device, a
6 destination address which is the virtual network address of the second device, and a shim
7 which includes the first and second private network addresses.

8
9 **76. (previously presented)** The method of claim 75 wherein the first private
10 network address and the second private network address are identical.

11
12 **77. (canceled)**

13
14 **78. (previously presented)** The method of claim 64 further comprising:
15 receiving a join status request from a first device in the virtual network as a query
16 to determine the status of a second device in the virtual network; and
17 responding to the join status request to indicate whether or not the second device
18 is joined to the virtual network for data communication.

19
20 **79. (previously presented)** The method of claim 64 further comprising
21 applying a group policy to the devices that are registered as the members of the virtual
22 network.
23
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1 **80. (currently amended)** One or more processor readable storage media
2 devices comprising processor readable code that, if executed by a computer device,
3 implements a virtual network manager to:

4 receive registration requests from devices that request to be registered as members
5 of a virtual network that is defined by a domain name having an associated public
6 network address in a public network, each of the devices having an associated private
7 network address;

8 distribute a virtual network address to a device to register the device as a member
9 in the virtual network, each device in the virtual network being identified to the other
10 devices by the virtual network address that is associated with the device;

11 manage communications routed between the devices that are registered in the
12 virtual network, the communications routed as encapsulated packets from a source device
13 to a destination device, an encapsulated packet including a first virtual network address
14 that corresponds to the source device and a second virtual network address that
15 corresponds to the destination device; and

16 transmit a response to a DNS request received from one of the devices that are the
17 members in the virtual network, the response to the DNS request including a public
18 network address of the virtual network manager, a public network address of the
19 destination device, and the second virtual network address that corresponds to the
20 destination device.
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1 **81. (currently amended)** One or more processor readable storage media
2 devices as recited in claim 80 further comprising processor readable code that, if
3 executed, implements the virtual network manager to provide the devices in the virtual
4 network with a communication agent.

5
6 **82. (currently amended)** One or more processor readable storage media
7 devices as recited in claim 81 wherein the virtual network manager provides the as a
8 proxy agent.

9
10 **83. (currently amended)** One or more processor readable storage media
11 devices as recited in claim 80 further comprising processor readable code that, if
12 executed, implements the virtual network manager to define a member set of the virtual
13 network that includes one or more of the devices, and the domain name that defines the
14 virtual network.

15
16 **84. (currently amended)** One or more processor readable storage media
17 devices as recited in claim 80 wherein the virtual network address includes a
18 non-routable IPV4 compliant address.
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1 **85. (currently amended)** One or more processor readable storage media
2 devices as recited in claim 80 further comprising processor readable code that, if
3 executed, implements the virtual network manager to route network traffic via the public
4 network from a first device having a public network address to a second device having a
5 different public network address.

6
7 **86. (currently amended)** One or more processor readable storage media
8 devices as recited in claim 80 further comprising processor readable code that, if
9 executed, implements the virtual network manager to route network traffic from a first
10 device in a private physical network having a private network address to a second device
11 having a public network address.

12
13 **87. (currently amended)** One or more processor readable storage media
14 devices as recited in claim 80 further comprising processor readable code that, if
15 executed, implements the virtual network manager to route network traffic from a first
16 device in a private physical network having a first private network address to a second
17 device in a different private physical network having a second private network address.

18
19 **88. (currently amended)** One or more processor readable storage media
20 devices as recited in claim 87 wherein the network traffic is routed to the first or second
21 device via a NAT device.
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1 **89. (currently amended)** One or more processor readable storage media
2 devices as recited in claim 87 wherein the first private network address and the second
3 private network address are identical.

4 **90. (currently amended)** One or more processor readable storage media
5 devices as recited in claim 85 wherein the network traffic is routed as encapsulated data
6 packets.
7

8 **91. (currently amended)** One or more processor readable storage media
9 devices as recited in claim 85 wherein the network traffic is routed as encrypted data
10 traffic.
11

12 **92. (currently amended)** One or more processor readable storage media
13 devices as recited in claim 80 further comprising processor readable code that, if
14 executed, implements the virtual network manager to apply a group policy to the devices
15 that are registered as the members of the virtual network.
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1 **93. (previously presented)** A virtual network system, comprising:
2 a computing device that includes at least a memory and a processor configured to
3 implement a virtual network manager having a network interface coupled to a virtual
4 network, the virtual network manager including at least one virtual community definition
5 that is defined by a domain name having an associated public network address and a user
6 set of one or more devices that are registered in the virtual network, each device in the
7 virtual network being identified to the other devices by a virtual network address that is
8 associated with the device, the virtual network manager configured to exchange virtual
9 network information with the one or more devices of the user set, the virtual network
10 being accessible by devices in the user set and devices outside of the user set, and the
11 virtual network manager further configured to receive a DNS request from a source
12 device, and return a public network address of a route director, a private network address
13 for a destination device, and a virtual network address that corresponds to the destination
14 device.

15
16 **94. (original)** The system of claim 93 wherein the virtual network manager
17 includes a member register module.

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19 **95. (original)** The system of claim 93 wherein the virtual network manager
20 includes a member join module.
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1 **96. (previously presented)** The system of claim 95 wherein the member join
2 module provides a virtual network address to a device that is registered as a member of
3 the network.
4

5 **97. (previously presented)** The system of claim 93 wherein the virtual
6 network manager is further configured to maintain data on an association between at least
7 one virtual network address with at least one device that is registered as a member of the
8 network.
9

10 **98. (previously presented)** The system of claim 93 wherein the virtual
11 network manager includes a DNS server for the virtual community network.
12

13 **99. (previously presented)** The system of claim 93 wherein the virtual
14 network manager includes a NAT device detector for devices connecting with the virtual
15 network manager behind a NAT device.
16

17 **100. (previously presented)** The system of claim 93 wherein the virtual
18 network manager includes at least a second virtual community definition.
19

20 **101. (canceled)**
21

22 **102. (original)** The system of claim 93 wherein the virtual network manager
23 includes a member authenticator.
24
25

1 **103. (previously presented)** The system of claim 93 wherein the virtual
2 network manager includes a DNS server configured to provide authoritative responses for
3 DNS queries from devices in the virtual community.
4

5 **104. (previously presented)** The system of claim 93 further comprising at
6 least one route director configured to communicate with the one or more devices in the
7 user set.
8

9 **105. (previously presented)** The system of claim 93 wherein each device
10 registered in the network is configured to communicate with the virtual network manager
11 and other devices in the user set via at least one agent.
12

13 **106. (previously presented)** The system of claim 93 wherein the user set
14 includes at least a first device and a second device, and wherein at least one of said first
15 device and said second device is coupled to a first private network and accesses a public
16 network via a NAT device.
17

18 **107. (original)** The system of claim 106 wherein said first device is coupled to
19 said first private network, and said second device is coupled to a second private network
20 and accesses the public network via a second NAT device.
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108. (previously presented) The system of claim 93 wherein communications between the one or more devices in the user set are encrypted.

109. (previously presented) The system of claim 108 wherein the virtual network manager is configured to provide a shared message to the one or more devices in the user set to establish encrypted communications.

REMARKS

Applicant respectfully requests allowance of the application. Claims 1-15, 17-24, 26-36, 41-43, 53-62, 64-66, 68-76, 78-100, and 102-109 are pending, of which claims 1, 32, and 80-92 have been amended to place the application in condition for allowance.

Allowable Subject Matter

Claims 53-62, 64-66, 68-76, 78, 79, 93-100, and 102-109 are allowed (*Office Action* p. 3). Applicant appreciates the allowability. These claims remain unchanged and are in condition for allowance.

Claims 1-15, 17-24, 26-36, 41-43, and 80-92 are indicated as being allowable over the references of record, but are subject to the §101 rejection below (*Office Action* p. 3). Amendments to the independent claims 1, 32, and 80 have been provided herein to overcome the §101 rejection, and the application is in condition for allowance.

Interview Summary

Applicant appreciates the Examiner calling to discuss an Examiner's Amendment on October 28, 2010, and the efforts to clarify pending issues to advance prosecution of the application. As noted in the pending Office Action, Applicant preferred to address the remaining §101 rejection in this written Response.

35 U.S.C. §101 Rejection

Claims 1-15, 17-24, 26-36, 41-43, and 80-92 are rejected under 35 U.S.C. §101 as being directed to non-statutory subject matter (*Office Action* pp. 2, 3).

With reference to independent claim 1, the Office indicates that "a virtual network manager implemented as a first computing device and a route director implemented as a

second computing device” can be accomplished with software, and is therefore non-statutory. Similarly, the Office indicates that the “virtual network manager” recited in independent claim 32 is software *per se*. Without conceding the propriety of the rejection, independent claims 1 and 32 have been amended to clarify that the recited virtual network manager and/or route director are implemented with a memory and a processor of a computing device. Accordingly, independent claims 1 and 32 recite statutory subject matter and Applicant requests that the §101 rejection be withdrawn. Claims 1 and 32, along with respective dependent claims 2-15, 17-24, 26-31, 33-36, and 41-43 are in condition for allowance.

With reference to claim 80, the Office indicates that “processor readable storage media” could be interpreted broadly as to cover transitory storage media in light of the specification, and is therefore non-statutory. Without conceding the propriety of the rejection, independent claim 80 has been amended to recite “processor readable storage media *devices*” to clarify *non*-transitory storage media. Additionally, Applicant submits for the record that the term “processor-readable storage media devices”, as recited in claims 80-92, does not include “transitory” media. Accordingly, independent claim 80 recites statutory subject matter and Applicant requests that the §101 rejection be withdrawn. Claim 80 along with dependent claims 81-92 are in condition for allowance.

Conclusion

Applicant submits that all objections and/or rejections of the pending claims 1-15, 17-24, 26-36, 41-43, 53-62, 64-66, 68-76, 78-100, and 102-109 have been addressed, and respectfully requests issuance of the application. If any issues remain that preclude issuance of the application, the Examiner is requested to contact the undersigned attorney before issuing a subsequent Action.

Respectfully Submitted,

Dated: December 02, 2010

By: / Dave Morasch 42905 /
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SBMC, p.s.
Reg. No. 42,905
(509) 755-7250

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Hasan S Alkhatib et al.	Examiner:	Douglas B Blair
Serial No.:	10/403,818	Group Art Unit:	2442
Filed:	March 31, 2003	Docket:	INN0017
Title:	Secure virtual community network system		

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

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

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the referenced materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Supplemental Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(c)(2), Applicants have included the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p). Please charge any additional fees or credit any overpayment to Deposit Account No. 50-4143.

Pursuant to 37 C.F.R. 1.98(a)(2), Applicant believes that copies of cited U.S. Patents and Published Applications, and Non-Published Applications identifiable by USPTO Serial Number, are no longer required to be provided to the Office. Notification of this change to this effect was provided in the United States Patent and Trademark Office OG Notices dated October 12, 2004 and October 19, 2004. Thus, Applicant has not included copies of any US Patents or US Patent Applications identifiable by serial number that may be cited with this submission. Should the Office require copies to be provided, Applicant respectfully requests that notice of such requirement be directed to Applicant's below-signed representative. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Serial No :10/403,818

Filing Date: March 31, 2003

Title: Secure virtual community network system

Page 2

Dkt: INNF0017

Respectfully submitted,

Hasan S Alkhatib et al.

By their Representatives,

Date December 2, 2010

By / Dave Morasch 42905 /
David A. Morasch
Reg. No. 42,905

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				<i>Complete if Known</i> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Application Number</td> <td>10/403,818</td> </tr> <tr> <td>Filing Date</td> <td>March 31, 2003</td> </tr> <tr> <td>First Named Inventor</td> <td>Alkhatib, Hasan</td> </tr> <tr> <td>Art Unit</td> <td>2442</td> </tr> <tr> <td>Examiner Name</td> <td>Blair, Douglas</td> </tr> </table>		Application Number	10/403,818	Filing Date	March 31, 2003	First Named Inventor	Alkhatib, Hasan	Art Unit	2442	Examiner Name	Blair, Douglas
Application Number	10/403,818														
Filing Date	March 31, 2003														
First Named Inventor	Alkhatib, Hasan														
Art Unit	2442														
Examiner Name	Blair, Douglas														
Sheet	1	of	1	Attorney Docket No: INN0017											

US PATENT DOCUMENTS					
Examiner Initial *	Cite No	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of cited Document	T ²

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No ¹	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 ²	
		"Non Final Office Action", Application 10/403,829, (11/19/10), 19 pages		

EXAMINER

DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)
 * 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 Applicant's unique citation designation number (optional) ² Applicant is to place a check mark here if English language Translation is attached

Electronic Patent Application Fee Transmittal				
Application Number:		10403818		
Filing Date:		31-Mar-2003		
Title of Invention:		Secure virtual community network system		
First Named Inventor/Applicant Name:		Hasan S. Alkhatib		
Filer:		William Breen/Kenneth Linder		
Attorney Docket Number:		INN0017		
Filed as Large Entity				
Utility under 35 USC 111(a) Filing Fees				
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:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
Total in USD (\$)				180

Electronic Acknowledgement Receipt	
EFS ID:	8957711
Application Number:	10403818
International Application Number:	
Confirmation Number:	2698
Title of Invention:	Secure virtual community network system
First Named Inventor/Applicant Name:	Hasan S. Alkhatib
Customer Number:	75671
Filer:	William Breen/Kenneth Linder
Filer Authorized By:	William Breen
Attorney Docket Number:	INNF0017
Receipt Date:	02-DEC-2010
Filing Date:	31-MAR-2003
Time Stamp:	18:44:17
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 180
RAM confirmation Number	5512
Deposit Account	504143
Authorized User	SADLER,LANCE R.

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 C.F.R. Section 1.16 (National application filing, search, and examination fees)
Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		INNFO017NFOAResponse5.pdf	191255 b4dc933ca5ce8f495f6d26ecf4d60f63f4ab4d0e	yes	28
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Amendment/Req. Reconsideration-After Non-Final Reject		1	1	
	Claims		2	25	
	Applicant summary of interview with examiner		26	26	
	Applicant Arguments/Remarks Made in an Amendment		27	28	
Warnings:					
Information:					
2		INNFO017IDS.pdf	161221 4e6e50214209f62acba8f6114e015ff1e9128af3	yes	3
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Transmittal Letter		1	2	
	Information Disclosure Statement (IDS) Filed (SB/08)		3	3	
Warnings:					
Information:					
3	NPL Documents	10403829NonFinalOA111910.pdf	794526 0aebb4ac79315497ad67992d3c88022d7685170b	no	19
Warnings:					
Information:					
4	Fee Worksheet (PTO-875)	fee-info.pdf	30020 f4b7a584f8698fa5d1ed6688b63423bb08cf72ab	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			1177022		

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.

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.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875					Application or Docket Number 10/403,818		Filing Date 03/31/2003		☐ To be Mailed	
APPLICATION AS FILED – PART I										
(Column 1)			(Column 2)			SMALL ENTITY ☐ OR		OTHER THAN SMALL ENTITY		
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)	OR	RATE (\$)	FEE (\$)			
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A				
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A				
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A				
TOTAL CLAIMS (37 CFR 1.16(j))	minus 20 =	*	X \$	=	OR	X \$	=			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X \$	=		X \$	=			
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 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).									
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))										
			TOTAL			TOTAL				
* If the difference in column 1 is less than zero, enter "0" in column 2.										
APPLICATION AS AMENDED – PART II										
(Column 1)			(Column 2)			SMALL ENTITY OR		OTHER THAN SMALL ENTITY		
AMENDMENT	12/02/2010	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	* 90	Minus	** 104	=	0	OR	X \$52=	0	
	Independent (37 CFR 1.16(h))	* 6	Minus	***6	=	0	OR	X \$220=	0	
☐ 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	0	
(Column 1)			(Column 2)			SMALL ENTITY OR		OTHER THAN SMALL ENTITY		
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	*	Minus	**	=		OR	X \$	=	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		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 number found in the appropriate box in column 1.										

Legal Instrument Examiner:
/AMANDA FORD/

This collection of information is required by 37 CFR 1.16. 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 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.**

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75671 7590 01/14/2011

Sadler, Breen, Morasch & Colby, ps
601 W. Main Ave.
Suite 1300
Spokane, WA 99201

EXAMINER

BLAIR, DOUGLAS B

ART UNIT

PAPER NUMBER

2442

DATE MAILED: 01/14/2011

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/403,818

03/31/2003

Hasan S. Alkhatib

INN0017

2698

TITLE OF INVENTION: SECURE VIRTUAL COMMUNITY NETWORK SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/14/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

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If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

75671 7590 01/14/2011

Sadler, Breen, Morasch & Colby, ps
 601 W. Main Ave.
 Suite 1300
 Spokane, WA 99201

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/403,818	03/31/2003	Hasan S. Alkhatib	INN0017	2698

TITLE OF INVENTION: SECURE VIRTUAL COMMUNITY NETWORK SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/14/2011

EXAMINER	ART UNIT	CLASS-SUBCLASS
BLAIR, DOUGLAS B	2442	709-245000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
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2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
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- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

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4b. Payment of Fee(s); (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

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Date _____

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This collection of information is required by 37 CFR 1.311. 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 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, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/403,818

03/31/2003

Hasan S. Alkhatib

INN0017

2698

75671

7590

01/14/2011

Sadler, Breen, Morasch & Colby, ps
601 W. Main Ave.
Suite 1300
Spokane, WA 99201

EXAMINER

BLAIR, DOUGLAS B

ART UNIT

PAPER NUMBER

2442

DATE MAILED: 01/14/2011

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 248 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 248 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability	Application No.	Applicant(s)	
	10/403,818	ALKHATIB ET AL.	
	Examiner	Art Unit	
	DOUGLAS B. BLAIR	2442	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on 12/2/2010.
2. ☒ The allowed claim(s) is/are 1-15,17-24,26-36,41-43,53-62,64-66,68-76,78-100 and 102-109.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - 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)).

* Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. ☒ Notice of References Cited (PTO-892) | 5. ☐ Notice of Informal Patent Application |
| 2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date ____. |
| 3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date <u>See Continuation Sheet</u> | 7. ☐ Examiner's Amendment/Comment |
| 4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. ☐ Examiner's Statement of Reasons for Allowance |
| | 9. ☒ Other <u>Explanation for Reconsideration of IDS's.</u> |

/Douglas B Blair/
Primary Examiner, Art Unit 2442

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 12/2/10, 12/5/07, 5/29/09.

Information Disclosure Statement

The information disclosure statements filed on 12/5/2007 and 5/29/2009 have been reconsidered because the applicant did not include dates for citation number 5 on the 12/5/2007 IDS and citation number 2 for the 5/29/2009 IDS. Non-patent literature references without dates cannot be considered.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DOUGLAS B. BLAIR whose telephone number is (571)272-3893. The examiner can normally be reached on 9:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glen Burgess can be reached on (571) 272-3949. 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.

Application/Control Number: 10/403,818

Page 3

Art Unit: 2442

/Douglas B Blair/

Primary Examiner, Art Unit 2442

Notice of References Cited	Application/Control No. 10/403,818	Applicant(s)/Patent Under Reexamination ALKHATIB ET AL.	
	Examiner DOUGLAS B. BLAIR	Art Unit 2442	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-7,853,714	12-2010	Moberg et al.	709/238
*	B	US-7,844,718	11-2010	Polcha et al.	709/229
*	C	US-7,827,304	11-2010	Park et al.	709/238
	D	US-			
	E	US-			
	F	US-			
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FOREIGN PATENT DOCUMENTS

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*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.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				<i>Complete if Known</i> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Application Number</td> <td>10/403,818</td> </tr> <tr> <td>Filing Date</td> <td>March 31, 2003</td> </tr> <tr> <td>First Named Inventor</td> <td>Alkhatib, Hasan</td> </tr> <tr> <td>Art Unit</td> <td>2142</td> </tr> <tr> <td>Examiner Name</td> <td>Blair, Douglas</td> </tr> </table>		Application Number	10/403,818	Filing Date	March 31, 2003	First Named Inventor	Alkhatib, Hasan	Art Unit	2142	Examiner Name	Blair, Douglas
Application Number	10/403,818														
Filing Date	March 31, 2003														
First Named Inventor	Alkhatib, Hasan														
Art Unit	2142														
Examiner Name	Blair, Douglas														
Sheet	1	of	1	Attorney Docket No: INN0017											

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Examiner Initial *	Cite No	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Filing Date If Appropriate
/DB/		US-20020026525	02/28/2002	Armitage, Grenville J.	04/03/2001

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Examiner Initials*	Cite No	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of cited Document	T ²

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS			
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/DB/		TANENBAUM, ANDREW S., "Computer Networks", Third Edition,(1996),1-37	
		"Excerpts from Help Section of Microsoft Outlook", pertaining to rules and forwarding email,1-3	
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/DB/		FINSETH, C "An Access Control Protocol , Sometimes Called TACACS", <u>Network Working Group Request for Comments</u> , (July 1993),1-18	
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/DB/		TSUCHIYA, PAUL F., et al., "Extending the IP Internet Through Address Reuse", <u>ACM SIGCOMM Computer Communication Review</u> , (January 1993),16-33	
/DB/		VENTERS, TRACY "Demystifying Protocols: A Comparison of Protocols Suitable for IP Telephony", <u>Sonus Networks</u> , (2000),1-11	
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EXAMINER /Douglas Blair/

DATE CONSIDERED 01/07/2011

Substitute Disclosure Statement Form (PTO-1449)
* 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 Applicant's unique citation designation number (optional) ² Applicant is to place a check mark here if English language Translation is attached

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

Application Number	10403818
Filing Date	2003-03-31
First Named Inventor	Alkhatib
Art Unit	2142
Examiner Name	Blair, Douglas B.
Attorney Docket Number	TTCC-1021US0

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/DB/	1	5864666		1999-01-26	Shrader	
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/DB/	6	5361256		1994-11-01	Doeringer	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		10403818
	Filing Date		2003-03-31
	First Named Inventor	Alkhatib	
	Art Unit	2142	
	Examiner Name	Blair, Douglas B.	
	Attorney Docket Number	TTCC-1021US0	

/DB/	9	5701427		1997-12-23	Lathrop	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		10403818	
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	First Named Inventor	Alkhatib		
	Art Unit	2142		
	Examiner Name	Blair, Douglas B.		
	Attorney Docket Number	TTCC-1021US0		

/DB/	20	5805820		1998-09-08	Bellovin	
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/DB/	29	5898830		1999-04-27	Wesinger, Jr.	
/DB/	30	5913210		1999-06-15	Call	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		10403818	
	Filing Date		2003-03-31	
	First Named Inventor	Alkhatib		
	Art Unit		2142	
	Examiner Name	Blair, Douglas B.		
	Attorney Docket Number		TTCC-1021US0	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		10403818	
	Filing Date		2003-03-31	
	First Named Inventor	Alkhatib		
	Art Unit	2142		
	Examiner Name	Blair, Douglas B.		
	Attorney Docket Number	TTCC-1021US0		

/DB/	42	6119171		2000-09-12	Alkhatib	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

Application Number	10403818
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First Named Inventor	Alkhatib
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/DB/	1	KESSLER, Gary C., "Mobile IP: Harbinger of Untethered Computing," http://www.garykessler.net/library/mobileip.htm, 1/20/2004	☐
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/DB/	4	Computer Dictionary; Microsoft Press; 3rd Edition; 1997; p. 264.	☐
	5	~~Excerpts from the Help section of Microsoft Outlook pertaining to rules and forwarding email. Microsoft Corporation.~~	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		10403818
	Filing Date		2003-03-31
	First Named Inventor	Alkhatib	
	Art Unit	2142	
	Examiner Name	Blair, Douglas B.	
	Attorney Docket Number	TTCC-1021US0	

/DB/	6	K. EGEVANG and P. FRANCIS, RFC 1631, The IP Network Address Translator (NAT), May 1994.	☐
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Examiner Signature	/Douglas Blair/		Date Considered 01/07/2011
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CONFIRMATION NO. 2698

SERIAL NUMBER 10/403,818	FILING or 371(c) DATE 03/31/2003 RULE	CLASS 709	GROUP ART UNIT 2442	ATTORNEY DOCKET NO. INNFO017		
APPLICANTS Hasan S. Alkhatib, Saratoga, CA; Fouad A. Tobagi, Los Altos, CA; Farid F. Elwailly, San Jose, CA; ** CONTINUING DATA ***** ** FOREIGN APPLICATIONS ***** ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 06/27/2003						
Foreign Priority claimed ☐ Yes ☒ No 35 USC 119(a-d) conditions met ☐ Yes ☒ No Verified and Acknowledged <u>/DOUGLAS B BLAIR/</u> Examiner's Signature		☐ Met after Allowance Initials	STATE OR COUNTRY CA	SHEETS DRAWINGS 21	TOTAL CLAIMS 109	INDEPENDENT CLAIMS 6
ADDRESS Sadler, Breen, Morasch & Colby, ps 601 W. Main Ave. Suite 1300 Spokane, WA 99201 UNITED STATES						
TITLE Secure virtual community network system						
FILING FEE RECEIVED 1367	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			

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	326	(virtual near2 network) and (virtual near2 address\$3) with regist\$6	US-PGPUB; USPAT	OR	OFF	2010/12/21 21:00
L2	146	L1 and (encapsulat\$3 or tunnel\$3)	US-PGPUB; USPAT	OR	OFF	2010/12/21 21:00
L3	90	L2 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/12/21 21:00
L4	37	(virtual near2 network) and (assign\$3 near4 (virtual near2 address\$3)) with regist\$6	US-PGPUB; USPAT	OR	OFF	2010/12/21 21:00
L5	21	L4 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/12/21 21:00
L6	14	regist\$6 with (p2p or "peer-to-peer" or "peer to peer") same (assign\$5 near2 address\$3)	US-PGPUB; USPAT	OR	OFF	2010/12/21 21:00
L7	14	L6 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/12/21 21:00
L8	248	regist\$6 with (server\$1 or manag\$5) same (assign\$5 near2 address\$3) same domain\$1	US-PGPUB; USPAT	OR	OFF	2010/12/21 21:00
L9	23563	(broadcast\$3 or multicast\$3) with ((new or join\$3))	US-PGPUB; USPAT	OR	OFF	2010/12/21 21:00
L10	19	L8 and L9	US-PGPUB; USPAT	OR	OFF	2010/12/21 21:00
L11	13	L10 and (virtual or vpn)	US-PGPUB; USPAT	OR	OFF	2010/12/21 21:00
L12	236	((virtual near2 network) or vpn) with (domain\$1 near2 (router\$1 or manag\$5 or server\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/12/21 21:00
L13	111	L12 and ((assign\$5 or regist\$6) with address\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/12/21 21:00

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S8	139	("domain name" or DNS) with (VPN)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/14 10:08
S9	74	S8 and @ad<"20030331"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/14 10:09
S10	22	S9 and (NAT with (public or private))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:59
S11	1801	709/245.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/14 11:02
S12	454	"virtual community"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:49
S13	353	router same (public with address\$3) same (private with address\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:50
S14	353	S13 same S13	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:50
S15	0	S12 same S13	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:50
S16	3	S12 and S13	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:50
S17	0	S16 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:51
S18	387	router same (public with address\$3) and router same (private with address\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:50

S19	260	S18 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:52
S20	0	S19 and S12	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:51
S21	306	rout\$3 with (public near address\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:51
S22	0	S12 same S21	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:52
S23	3	S12 and S21	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:52
S24	0	S23 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:55
S25	1	S12 same public near address \$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:53
S26	0	S12 same (rout\$3 with internet)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:53
S27	1	S12 same private near address \$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:54
S28	15	(community or group) same S13	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:54
S29	7	S28 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 12:59

S30	85	((group or community) with (member\$4 or belong\$3)) and (NAT with (public or private))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 13:00
S31	49	S30 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 13:01
S32	55	((group or community) with (member\$4 or belong\$3)) and ((group\$1 or community) same rout\$3) and (NAT with (public or private))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 13:25
S33	34	S32 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 13:27
S34	272055	((group or community) with (member\$4 or belong\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 13:25
S35	6111	S34 same server	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 13:25
S36	124	S35 and ((rout\$3 near2 (messag\$3 or communication \$1)) same (firewall or NAT or private))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 13:26
S37	68	S36 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 13:27
S38	35	S37 and "domain name"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 13:27
S39	1	"20020152297".pn.	US-PGPUB; USPAT	OR	OFF	2007/05/25 18:47
S40	706	"virtual community"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/07 13:57

EX1002

EX1002

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S97	11	S96 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/28 11:07
S98	200	regist\$6 with (server\$1 or manag\$5) same (assign\$5 near2 address\$3) same domain\$1	US-PGPUB; USPAT	OR	OFF	2009/01/28 11:09
S99	17536	(broadcast\$3 or multicast\$3) with ((new or join\$3))	US-PGPUB; USPAT	OR	OFF	2009/01/28 11:10
S100	2	S98 same S99	US-PGPUB; USPAT	OR	OFF	2009/01/28 11:10
S101	19	S98 and S99	US-PGPUB; USPAT	OR	OFF	2009/01/28 11:12
S102	13	S101 and (virtual or vpn)	US-PGPUB; USPAT	OR	OFF	2009/01/28 11:12
S103	13	S102 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/28 11:12
S104	156	((virtual near2 network) or vpn) with (domain\$1 near2 (router\$1 or manag\$5 or server\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/28 11:18
S105	78	S104 and ((assign\$5 or regist \$6) with address\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/28 11:19
S106	48	S105 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/01/28 11:19
S107	277	("20030005334" "20030126467" "20030196122" "20040073812" "20040088586" "20040088706" "20040098624" "20040103321" "20040103322" "20050021595" "20050022030" "20050149747" "20050229248" "20050235346" "20050235347" "20050235348" "20050235359" "20060005236"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/28 11:34

EX1002

		"5924074" "6002689" "6016307" "6026091" "6052442" "6098138" "6104718" "6129449" "6178170" "6181703" "6226686" "6305007" "6385198" "6434403" "6456594" "6466236" "6810429" "6973479" "7114171" "7117246").PN. OR ("7379464").URPN.				
S118	30	("20020010758" "20020055917" "20020136223" "20020188689" "20040059598" "20040060056" "20040100974" "20040100975" "5418628" "5924074" "6002689" "6016307" "6026091" "6052442" "6098138" "6104718" "6129449" "6178170" "6181703" "6226686" "6305007" "6385198" "6434403" "6456594" "6466236" "6810429" "6973479" "7114170" "7114171" "7117246").PN. OR ("7263102").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/28 16:18
S119	29	("20020055917" "20020136223" "20020188689" "20040059598" "20040060056" "20040100974" "20040100975" "5418628" "5924074" "6002689" "6016307" "6026091" "6052442" "6098138" "6104718" "6129449" "6178170" "6181703" "6226686" "6305007" "6385198" "6434403" "6456594" "6466236" "6810429" "6973479" "7114171" "7117246").PN. OR ("7224698").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/28 16:19

S120	93	("20020078198" "20020133534" "20030041091" "20030041136" "20030084162" "20030212795" "20040006708" "20040111612" "20040148439" "5361256" "5563878" "5623605" "5701427" "5717687" "5734651" "5751961" "5764906" "5777989" "5781550" "5790548" "5793763" "5805818" "5805820" "5815664" "5856974" "5867667" "5884246" "5889953" "5913210" "5937162" "5937163" "6226751" "6594704" "6701437" "6832322" "6970941" "6003084" "6006272" "6032196" "6047325" "6055575" "6061738" "6119171" "6353614" "6353886" "6381638" "6430622" "6430623" "6438597" "6438612" "6452925" "6457061" "6480508" "6490289" "6496867" "6507873" "6523068" "6556584" "6557037" "6557306" "6591306" "6618757" "6629137" "6631416" "6651101" "6657991" "6662223" "6697377" "6742045" "6747979" "6754706" "6772210" "6778528" "6779035" "6781982" "6948003" "6973485" "6981020" "6982953" "6983319" "6993012" "6993595" "6996628" "6996631" "7010702" "7092390" "7107464" "7107614" "7133368" "7227864" "7003481" "7032242" "7139828").PN.	US-PGPUB; USPAT	OR	OFF	2009/01/29 16:27
S121	1	"20040249911".pn.	US-PGPUB; USPAT	OR	OFF	2009/01/29 17:22
S122	790	"virtual community"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46

S123	610	router same (public with address\$3) same (private with address\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S124	3	S122 and S123	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S125	0	S124 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S126	662	router same (public with address\$3) and router same (private with address\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S127	341	S126 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S128	467	rou\$3 with (public near address\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S129	3	S122 and S128	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S130	0	S129 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S131	31	(community or group) same S123	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S132	15	S131 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S133	155	((group or community) with (member\$4 or belong\$3)) and (NAT with (public or private))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46

S134	67	S133 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S135	91	((group or community) with (member\$4 or belong\$3)) and ((group\$1 or community) same rout\$3) and (NAT with (public or private))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S136	45	S135 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S137	337874	((group or community) with (member\$4 or belong\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S138	9951	S137 same server	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S139	182	S138 and ((rout\$3 near2 (messag\$3 or communication \$1)) same (firewall or NAT or private))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S140	95	S139 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S141	28	(Vpn or "virtual private network") same (assign\$5 near address\$3) same domain \$1	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:46
S142	8	S141 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:46
S143	3751	(Vpn or "virtual private network") with rout\$3	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:46
S144	630	(Vpn or "virtual private network") with regist\$6	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:46
S145	292	S143 and S144	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:46
S146	299	S144 same address\$3	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:46

http://www.patentstorm.us/patents/7495818/patentHistory.do?patentId=7495818&searchHistoryId=1049258_AccessibleVersion.htm (19 of 24)12/21/10 9:34:21 PM

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S175	89	S174 and ((assign\$5 or regist\$6) with address\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:57
S176	51	S175 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/19 19:57
S177	3	(S165 S167 S169 S173 S176) and @pd> "20090128"	US-PGPUB; USPAT	OR	OFF	2009/08/19 19:57
S178	1	("20020026525").PN.	US-PGPUB; USPAT	OR	OFF	2009/08/19 20:12
S180	1	"6430623".pn.	US-PGPUB; USPAT	OR	OFF	2009/08/19 20:29
S181	1	"7133404".pn.	US-PGPUB; USPAT	OR	OFF	2009/08/19 20:33
S182	1	"6772227".pn.	US-PGPUB; USPAT	OR	OFF	2009/08/19 20:34
S183	1	"6119171".pn.	US-PGPUB; USPAT	OR	OFF	2009/08/19 20:39
S184	1	"7152205".pn.	US-PGPUB; USPAT	OR	OFF	2009/08/20 13:50
S185	1	"20040249911".pn.	US-PGPUB; USPAT	OR	OFF	2010/01/07 11:19
S186	37	DNS with (virtual\$1 near (domain or name\$1))	US-PGPUB; USPAT	OR	OFF	2010/01/07 11:23
S187	25	S186 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT	OR	OFF	2010/01/07 11:24
S188	6	("20060190607" "20060195539" "20040088542" "20020103931" "20080232295" "20070286189").pn.	US-PGPUB; USPAT	OR	OFF	2010/01/29 10:27
S189	7	("20060190607" "20060195539" "20040088542" "20020103931" "20080232295" "20070286189" "20020026525").pn.	US-PGPUB; USPAT	OR	OFF	2010/01/29 10:49
S190	4	S189 and encapsulat\$3	US-PGPUB; USPAT	OR	OFF	2010/01/29 10:50
S191	638	regist\$7 with (virtual near2 network\$1)	US-PGPUB; USPAT	OR	OFF	2010/01/29 11:04
S192	135	encapsulat\$3 with (virtual near2 address\$3)	US-PGPUB; USPAT	OR	OFF	2010/01/29 11:05
S193	1	S191 with S192	US-PGPUB; USPAT	OR	OFF	2010/01/29 11:05

S194	2	S191 same S192	US-PGPUB; USPAT	OR	OFF	2010/01/29 11:07
S195	194	(virtual near2 network\$1) with domain near name\$1	US-PGPUB; USPAT	OR	OFF	2010/01/29 11:08
S196	0	S191 same S192 same S195	US-PGPUB; USPAT	OR	OFF	2010/01/29 11:08
S197	20	S191 and S192 and S195	US-PGPUB; USPAT	OR	OFF	2010/01/29 11:08
S198	17	S197 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT	OR	OFF	2010/01/29 11:12
S199	1	"7490151".pn.	US-PGPUB; USPAT	OR	OFF	2010/08/27 09:51
S200	1	"20040249911".pn.	US-PGPUB; USPAT	OR	OFF	2010/10/27 11:33
S201	40	DNS with (virtual\$1 near (domain or name\$1))	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:35
S202	26	S201 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:35
S203	749	regist\$7 with (virtual near2 network\$1)	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:35
S204	161	encapsulat\$3 with (virtual near2 address\$3)	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:35
S205	3	S203 same S204	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:35
S206	222	(virtual near2 network\$1) with domain near name\$1	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:35
S207	0	S203 same S204 same S206	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:35
S208	20	S203 and S204 and S206	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:35
S209	17	S208 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:35
S210	2	(S202 S205 S207 S209) and @pd> "20100107"	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:35
S211	318	(virtual near2 network) and (virtual near2 address\$3) with regist\$6	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:36
S212	143	S211 and (encapsulat\$3 or tunnel\$3)	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:36
S213	89	S212 and (@ad< "20030331" @rlad< "20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/11/01 09:36
S214	37	(virtual near2 network) and (assign\$3 near4 (virtual near2 address\$3)) with regist\$6	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:36

S215	21	S214 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/11/01 09:36
S216	14	regist\$6 with (p2p or "peer-to-peer" or "peer to peer") same (assign\$5 near2 address\$3)	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:36
S217	14	S216 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/11/01 09:36
S218	242	regist\$6 with (server\$1 or manag\$5) same (assign\$5 near2 address\$3) same domain\$1	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:36
S219	23125	(broadcast\$3 or multicast\$3) with ((new or join\$3))	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:36
S220	19	S218 and S219	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:36
S221	13	S220 and (virtual or vpn)	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:36
S222	231	((virtual near2 network) or vpn) with (domain\$1 near2 (router\$1 or manag\$5 or server\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/11/01 09:36
S223	107	S222 and ((assign\$5 or regist \$6) with address\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/11/01 09:36
S224	52	S223 and (@ad<"20030331" @rlad<"20030331")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/11/01 09:36
S225	15	(S213 S215 S217 S221 S224) and @pd>"20090128"	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:36
S226	12	S225 and @pd>"20090819"	US-PGPUB; USPAT	OR	OFF	2010/11/01 09:36

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L20	0	(regist\$6 with (p2p or "peer-to-peer" or "peer to peer") same (assign\$5 near2 address\$3)).clm.	US-PGPUB	OR	OFF	2010/12/21 21:25

L21	18	((virtual near2 network) or vpn) with (domain\$1 near2 (router\$1 or manag\$5 or server\$1))).clm.	US-PGPUB	OR	OFF	2010/12/21 21:28
L22	15	(regist\$6 with (server\$1 or manag\$5) same (assign\$5 near2 address\$3) same domain\$1).clm.	USPAT; UPAD	OR	OFF	2010/12/21 21:29
L23	3	((virtual near (community or network)) and (private near address\$3) and (public near address\$3) and (IP near address\$2))).clm.	US-PGPUB	OR	OFF	2010/12/21 21:30

12/ 21/ 10 9:34:02 PM**C:\ Documents and Settings\ dblair\ My Documents\ EAST\ workspaces\ 10403818.wsp**

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				<i>Complete if Known</i> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Application Number</td> <td>10/403,818</td> </tr> <tr> <td>Filing Date</td> <td>March 31, 2003</td> </tr> <tr> <td>First Named Inventor</td> <td>Alkhatib, Hasan</td> </tr> <tr> <td>Art Unit</td> <td>2442</td> </tr> <tr> <td>Examiner Name</td> <td>Blair, Douglas</td> </tr> <tr> <td colspan="2" style="height: 20px;"></td> </tr> </table>		Application Number	10/403,818	Filing Date	March 31, 2003	First Named Inventor	Alkhatib, Hasan	Art Unit	2442	Examiner Name	Blair, Douglas		
Application Number	10/403,818																
Filing Date	March 31, 2003																
First Named Inventor	Alkhatib, Hasan																
Art Unit	2442																
Examiner Name	Blair, Douglas																
Sheet	1	of	1	Attorney Docket No: INN0017													

US PATENT DOCUMENTS					
Examiner Initial *	Cite No	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of cited Document	T ²

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No ¹	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 ²	
/DB/		"Non Final Office Action", Application 10/403,829, (11/19/10), 19 pages		

EXAMINER /Douglas Blair/

DATE CONSIDERED 12/21/2010

Substitute Disclosure Statement Form (PTO-1449)
 * 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 Applicant's unique citation designation number (optional) ² Applicant is to place a check mark here if English language Translation is attached

<i>Index of Claims</i> 	Application/Control No. 10403818	Applicant(s)/Patent Under Reexamination ALKHATIB ET AL.
	Examiner DOUGLAS B BLAIR	Art Unit 2442

✓	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															
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33	34	✓	✓	✓	=												
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34	36	✓	✓	✓	=												

Index of Claims 	Application/Control No. 10403818	Applicant(s)/Patent Under Reexamination ALKHATIB ET AL.
	Examiner DOUGLAS B BLAIR	Art Unit 2442

✓	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															
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<i>Index of Claims</i> 	Application/Control No. 10403818	Applicant(s)/Patent Under Reexamination ALKHATIB ET AL.
	Examiner DOUGLAS B BLAIR	Art Unit 2442

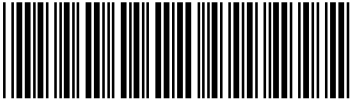
✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant												☐ CPA		☐ T.D.		☐ R.1.47	
CLAIM		DATE															
Final	Original	01/29/2009	08/27/2010	10/27/2010	12/21/2010												
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89	108	✓	=	=	=												

<i>Index of Claims</i> 	Application/Control No. 10403818	Applicant(s)/Patent Under Reexamination ALKHATIB ET AL.
	Examiner DOUGLAS B BLAIR	Art Unit 2442

✓	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	01/29/2009	08/27/2010	10/27/2010	12/21/2010										
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Search Notes 	Application/Control No. 10403818	Applicant(s)/Patent Under Reexamination ALKHATIB ET AL.
	Examiner DOUGLAS B BLAIR	Art Unit 2442

SEARCHED			
Class	Subclass	Date	Examiner
	update	1/28/2009	DBB
	update	8/19/2009	DBB
	update	8/27/2010	DBB
	update	11/1/2010	DBB
709	245	12/21/2010	DBB
726	15	12/21/2010	DBB

SEARCH NOTES			
Search Notes		Date	Examiner
update		1/28/2009	DBB
inventor name search		1/28/2009	DBB
update		8/19/2009	DBB
update		8/27/2010	DBB
update		11/1/2010	DBB
update		12/21/2010	DBB

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner
	see attached history	12/21/2010	DBB

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POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).

I hereby appoint:



Practitioners associated with the Customer Number:

23446

OR



Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used).

Name	Registration Number	Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to:



The address associated with Customer Number:

23446

OR

☐ Firm or Individual Name			
Address			
City	State	Zip	
Country			
Telephone	Email		

Assignee Name and Address:

Inpro Network Facility, LLC
2711 Centerville Road, Suite 400
Wilmington, Delaware 19808

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/86 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature	<i>Dana Morris</i>	Date	1/14/11
Name	Dana Morris	Telephone	
Title	Authorized Person for Inpro Network Facility, LLC		

This collection of information is required by 37 CFR 1.31, 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-9195 and select option 2.

DECLARATION REGARDING AUTHORITY TO SIGN ON BEHALF OF A LEGAL
ENTITY
(37 C.F.R. 3.73(b)(2)(i))

I, Dana Morris (whose title is supplied below), hereby declare that I am authorized to
sign on behalf of Inpro Network Facility, LLC.

Dana Morris

Dana Morris
Authorized Person for Inpro Network Facility, LLC

1/14/11

[date]

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

INJF007

PTO/SB/96 (04-07)

Approved for use through 09/30/2007. 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(b)Applicant/Patent Owner: Inpro Network Facility, LLCApplication No./Patent No.: 10/403,818 Filed/Issue Date: March 31, 2003Entitled: Secure virtual community network systemInpro Network Facility, LLC, a LLC

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest
(The extent (by percentage) of its ownership interest is _____ %)

in the patent application/patent identified above by virtue of either:

- 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 _____, Frame _____, or for which a copy thereof is attached.

OR

- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Hasan S. Alkhatib To: IP Dynamics, Inc.
The document was recorded in the United States Patent and Trademark Office at
Reel 014340, Frame 0968, or for which a copy thereof is attached.
2. From: IP Dynamics, Inc. To: Inpro Network Facility, LLC
The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.
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.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☒ As required by 37 CFR 3.73(b)(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.

David A. Morasch
Signature

David A. Morasch

Printed or Typed Name

Attorney of Record, Reg. No. 42905

Title

Jan. 22, 2008
Date

509-755-7262

Telephone Number

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.

Electronic Acknowledgement Receipt	
EFS ID:	9410695
Application Number:	10403818
International Application Number:	
Confirmation Number:	2698
Title of Invention:	SECURE VIRTUAL COMMUNITY NETWORK SYSTEM
First Named Inventor/Applicant Name:	Hasan S. Alkhatib
Customer Number:	75671
Filer:	Peter J. McAndrews/Silvia DiSera
Filer Authorized By:	Peter J. McAndrews
Attorney Docket Number:	INN0017
Receipt Date:	09-FEB-2011
Filing Date:	31-MAR-2003
Time Stamp:	16:33:27
Application Type:	Utility under 35 USC 111(a)

Payment information:					
Submitted with Payment			no		
File Listing:					
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Warnings:					
Information:					

2	Assignee showing of ownership per 37 CFR 3.73(b).	23590US01_0817USAP142562_373b.pdf	61671 36d440e8904d5bcf98d64d6c75f81e75346bc678	no	1
Warnings:					
Information:					
Total Files Size (in bytes):				1572471	
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 BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		10403818	
	Filing Date		2003-03-31	
	First Named Inventor	Alkhatib		
	Art Unit	2142		
	Examiner Name	Blair, Douglas B.		
	Attorney Docket Number	TTCC-1021US0		

/DB/	42	6119171		2000-09-12	Alkhatib	
/DB/	43	6122276		2000-09-19	Boe	
/DB/	44	6137791		2000-10-24	Frid	
/DB/	45	6154839		2000-11-28	Arrow	
/DB/	46	6219715		2001-04-17	Ohno	
/DB/	47	6243749		2001-06-05	Sitaraman	
/DB/	48	6249801		2001-06-19	Zisapel	
/DB/	49	6266707		2001-07-24	~~6266707~~ <i>Boden et al.</i>	
/DB/	50	6304906		2001-10-16	Bhatti	

If you wish to add additional U.S. Patent citation information please click the Add button.						Add
U.S. PATENT APPLICATION PUBLICATIONS						Remove
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear



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 Alexandria, Virginia 22313-1450
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Bib Data Sheet

CONFIRMATION NO. 2698

SERIAL NUMBER 10/403,818	FILING OR 371(c) DATE 03/31/2003 RULE	CLASS 709	GROUP ART UNIT 2442	ATTORNEY DOCKET NO. INN0017	
APPLICANTS Hasan S. Alkhatib, Saratoga, CA; Fouad A. Tobagi, Los Altos, CA; Farid F. Elwailly, San Jose, CA;					
** CONTINUING DATA *****					
** FOREIGN APPLICATIONS *****					
IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 06/27/2003					
Foreign Priority claimed ☐ yes ☐ no 35 USC 119 (a-d) conditions ☐ yes ☐ no ☐ Met after met Allowance Verified and Acknowledged <u>Examiner's Signature</u> <u>Initials</u>		STATE OR COUNTRY CA	SHEETS DRAWING 21	TOTAL CLAIMS 109	INDEPENDENT CLAIMS 6
ADDRESS 23446					
TITLE SECURE VIRTUAL COMMUNITY NETWORK SYSTEM					
FILING FEE RECEIVED 1367	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		



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
10/403,818	03/31/2003	Hasan S. Alkhatib	INNFO017

CONFIRMATION NO. 2698

POA ACCEPTANCE LETTER

23446
MCANDREWS HELD & MALLOY, LTD
500 WEST MADISON STREET
SUITE 3400
CHICAGO, IL 60661



Date Mailed: 03/16/2011

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 02/09/2011.

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.

/tcouch/

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

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United States Patent and Trademark Office
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
10/403,818	03/31/2003	Hasan S. Alkhatib	INNFO017

CONFIRMATION NO. 2698

POWER OF ATTORNEY NOTICE



75671
Sadler, Breen, Morasch & Colby, ps
601 W. Main Ave.
Suite 1300
Spokane, WA 99201

Date Mailed: 03/16/2011

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 02/09/2011.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

/tcouch/

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

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax **(571)-273-2885**

INSTRUCTIONS: This form should be used for transmitting the **ISSUE FEE** and **PUBLICATION FEE** (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being electronically filed with the USPTO on the date indicated below.

75671 7590 01/14/2011
McAndrews, Held, and Malloy, Ltd.
500 W. Madison St., 34th Floor
Chicago, IL 60661

Andrew B. Karp	(Depositor's name)
/Andrew B. Karp/	(Signature)
April 12, 2011	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/403,818	03/31/2003	Hasan S. Alkhatib	23590US01	2698

TITLE OF INVENTION: SECURE VIRTUAL COMMUNITY NETWORK SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/14/2011

EXAMINER	ART UNIT	CLASS-SUBCLASS
BLAIR, DOUGLAS B	2442	709-245000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
 (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 **McAndrews, Held & Malloy, Ltd.**
 2 _____
 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Inpro Network Facility, LLC

Wilmington, DE

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☒ Issue Fee
☒ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number **13-0017** (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims **SMALL ENTITY** status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming **SMALL ENTITY** status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature **/Andrew B. Karp/**

Date **April 12, 2011**

Typed or printed name **Andrew B. Karp**

Registration No. **61,586**

This collection of information is required by 37 CFR 1.311. 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 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, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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.

Electronic Patent Application Fee Transmittal				
Application Number:		10403818		
Filing Date:		31-Mar-2003		
Title of Invention:		SECURE VIRTUAL COMMUNITY NETWORK SYSTEM		
First Named Inventor/Applicant Name:		Hasan S. Alkhatib		
Filer:		Andrew Bernard Karp/Winona Jackson		
Attorney Docket Number:		23590US01		
Filed as Large Entity				
Utility under 35 USC 111(a) Filing Fees				
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:				
Utility Appl issue fee	1501	1	1510	1510
Publ. Fee- early, voluntary, or normal	1504	1	300	300

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1810

Electronic Acknowledgement Receipt	
EFS ID:	9864943
Application Number:	10403818
International Application Number:	
Confirmation Number:	2698
Title of Invention:	SECURE VIRTUAL COMMUNITY NETWORK SYSTEM
First Named Inventor/Applicant Name:	Hasan S. Alkhatib
Customer Number:	23446
Filer:	Andrew Bernard Karp/Winona Jackson
Filer Authorized By:	Andrew Bernard Karp
Attorney Docket Number:	23590US01
Receipt Date:	12-APR-2011
Filing Date:	31-MAR-2003
Time Stamp:	17:30:26
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$ 1810
RAM confirmation Number	4669
Deposit Account	130017
Authorized User	
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 C.F.R. Section 1.16 (National application filing, search, and examination fees) Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)	

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	23590US01_0817USAP142562_Issue_Fee_Payment.pdf	218508 507f764ab341ba123b4927c3c19539832d9747f4	no	1

Warnings:

Information:

2	Fee Worksheet (PTO-875)	fee-info.pdf	32179 cb4d77ac71b1d86651b673fc879c6f99c1d81f3a	no	2
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Warnings:

Information:

Total Files Size (in bytes):			250687
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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.



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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/403,818	05/24/2011	7949785	23590US01	2698

23446 7590 05/04/2011
MCANDREWS HELD & MALLOY, LTD
500 WEST MADISON STREET
SUITE 3400
CHICAGO, IL 60661

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment is 685 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Hasan S. Alkhatib, Saratoga, CA;
Fouad A. Tobagi, Los Altos, CA;
Farid F. Elwailly, San Jose, CA;

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 1

PATENT NO. : 7,949,785 B2
APPLICATION NO.: 10/403,818
ISSUE DATE : May 24, 2011
INVENTOR(S) : Alkhatib et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Page 3, item (56), under "Other Publications", in Column 1, Line 11, delete "Nelowrks." and insert - - Networks. - -.

Page 3, item (56), under "Other Publications", in Column 2, Line 22, delete "Infrastucture" and insert - - Infrastructure - -.

Column 40, line 15, in Claim 64, delete "the" and insert - - the communication agent - -.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. 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 1.0 hour 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: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal				
Application Number:		10403818		
Filing Date:		31-Mar-2003		
Title of Invention:		SECURE VIRTUAL COMMUNITY NETWORK SYSTEM		
First Named Inventor/Applicant Name:		Hasan S. Alkhatib		
Filer:		Blayne Donnis Green/Kevin Wyllie		
Attorney Docket Number:		23590US01		
Filed as Large Entity				
Utility under 35 USC 111(a) Filing Fees				
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:				
Certificate of correction	1811	1	100	100
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Total in USD (\$)				100

Electronic Acknowledgement Receipt	
EFS ID:	11091143
Application Number:	10403818
International Application Number:	
Confirmation Number:	2698
Title of Invention:	SECURE VIRTUAL COMMUNITY NETWORK SYSTEM
First Named Inventor/Applicant Name:	Hasan S. Alkhatib
Customer Number:	23446
Filer:	Blayne Donnis Green/Kevin Wyllie
Filer Authorized By:	Blayne Donnis Green
Attorney Docket Number:	23590US01
Receipt Date:	30-SEP-2011
Filing Date:	31-MAR-2003
Time Stamp:	16:58:16
Application Type:	Utility under 35 USC 111(a)

Payment information:					
Submitted with Payment		yes			
Payment Type		Credit Card			
Payment was successfully received in RAM		\$ 100			
RAM confirmation Number		6836			
Deposit Account					
Authorized User					
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)

1	Request for Certificate of Correction	CoC_7949785.pdf	81021 d5cd1faacc8012126018d0ec375bc746b1c02129	no	2
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30221 d4e8b178136cc15a2596484822e68e0a364286c1	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			111242		
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.					

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,949,785 B2
APPLICATION NO. : 10/403818
DATED : May 24, 2011
INVENTOR(S) : Alkhatib et al.

Page 1 of 1

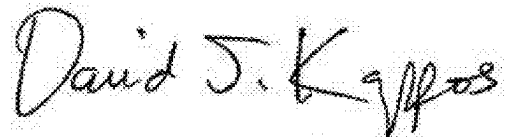
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title Page 3, item (56), under “Other Publications”, in Column 1, Line 11, delete “Nelowrks.” and insert -- Networks. --.

Title Page 3, item (56), under “Other Publications”, in Column 2, Line 22, delete “Infrastucture” and insert -- Infrastructure --.

Column 40, line 15, in Claim 64, delete “the” and insert -- the communication agent --.

Signed and Sealed this
First Day of November, 2011

A handwritten signature in black ink, reading "David J. Kappos". The signature is written in a cursive, flowing style with a large initial "D".

David J. Kappos
Director of the United States Patent and Trademark Office



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. 2698

SERIAL NUMBER 10/403,818	FILING or 371(c) DATE 03/31/2003 RULE	CLASS 709	GROUP ART UNIT 2442	ATTORNEY DOCKET NO. 23590US01	
APPLICANTS INVENTORS Hasan S. Alkhatib, Saratoga, CA; Fouad A. Tobagi, Los Altos, CA; Farid F. Elwailly, San Jose, CA;					
** CONTINUING DATA ***** ** FOREIGN APPLICATIONS ***** ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 06/27/2003					
Foreign Priority claimed ☐ Yes ☒ No 35 USC 119(a-d) conditions met ☐ Yes ☒ No Verified and Acknowledged <u>/DOUGLAS B BLAIR/</u> Examiner's Signature		☐ Met after Allowance Initials	STATE OR COUNTRY CA	SHEETS DRAWINGS 21	TOTAL CLAIMS 109 INDEPENDENT CLAIMS 6
ADDRESS VOLPE KOENIG 30 SOUTH 17TH STREET, 18TH FLOOR PHILADELPHIA, PA 19103 UNITED STATES					
TITLE SECURE VIRTUAL COMMUNITY NETWORK SYSTEM					
FILING FEE RECEIVED 0.00	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		



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
10/403,818	03/31/2003	Hasan S. Alkhatib	23590US01

3624
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CONFIRMATION NO. 2698
POA ACCEPTANCE LETTER



OC000000076021746

Date Mailed: 08/02/2024

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 08/01/2024.

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.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/rbell/



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10/403,818	03/31/2003	Hasan S. Alkhatib	23590US01

CONFIRMATION NO. 2698

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POWER OF ATTORNEY NOTICE



OC000000076021693

Date Mailed: 08/02/2024

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 08/01/2024.

- The Power of Attorney to you in this application has been revoked by the applicant. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/rbell/