

PATENT ASSIGNMENT

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| Laura Jane Poplawski Ma | 08/15/2011 |
| Frank Kastenholtz | 08/10/2011 |
| Gregory Stephen Lauer | 08/10/2011 |
| Walter Clark Milliken | 08/03/2001 |
| Gregory Donald Troxel | 08/09/2011 |
| RECEIVING PARTY DATA | |
| Name: | Raytheon BBN Technologies Corp. |
| Street Address: | 10 Moulton Street |
| City: | Cambridge |
| State/Country: | MASSACHUSETTS |
| Postal Code: | 02138 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 13209646 |
| CORRESPONDENCE DATA | |
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| ATTORNEY DOCKET NUMBER: | BBN11-02 |
| NAME OF SUBMITTER: | David W. Rouille |

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Total Attachments: 7

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ASSIGNMENT

WHEREAS, we, Laura Jane Poplawski Ma, Frank Kastenholz, Gregory Stephen Lauer, Walter Clark Milliken, and Gregory Donald Troxel, have invented a certain improvement in **METHOD AND APPARATUS PROVIDING PRECEDENCE DROP QUALITY OF SERVICE (PDQoS) WITH CLASS-BASED LATENCY DIFFERENTIATION** described in an application for Letters Patent of the United States, the specification of which:

☒ is being executed on even date herewith and is about to be filed in the United States Patent Office;

☐ was filed on _____ as U.S. Application No. _____;

☐ was patented under U.S. Patent No. _____ on _____.

WHEREAS, Raytheon BBN Technologies Corp. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware and having a usual place of business at 10 Moulton Street, Cambridge, MA 02138 desires to acquire an interest therein in accordance with agreements duly entered into with me;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and ~~by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its~~ successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and the date set forth below.

Date: Aug 15, 2011

Laura Jane Poplawski Ma
Inventor's Signature

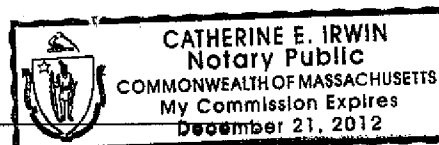
Print full name of second inventor: Laura Jane Poplawski Ma
Residence: 14 Endicott Avenue, Somerville, MA 02144
Citizenship: US
Mailing Address: Same as above

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

On this 15th day of August, 2011, then personally appeared before me the above-named Laura Jane Poplawski Ma known to me through satisfactory evidence of identification ☒ employee identification card; ☐ driver's license; ☐ (other) _____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Catherine E. Irwin
Notary Public

Print Name: _____



My Commission expires / /

- 4 -

Date:

Aug 10 '11

Inventor's Signature

Print full name of first inventor:

Frank Kastenholtz

Residence:

1446 Mystic Valley Pkwy., Medford, MA
02155

Citizenship:

US

Mailing Address:

Same as above

STATE/Commonwealth of MassachusettsCOUNTY OF Middlesex

On this 10th day of August, 2011, then personally appeared before me the above-named Frank Kastenholtz known to me through satisfactory evidence of identification [☒ employee identification card; [☐ driver's license; [☐ (other) _____] to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.


Notary Public
Print Name _____


My Commission expires 12 / 21 / 12

- 5 -

Date:

8/10/2011Gregory Stephen Lauer
Inventor's Signature

Print full name of first inventor:

Gregory Stephen Lauer

Residence:

25 Willow Road, Sudbury, MA 01776

Citizenship:

US

Mailing Address:

Same as above

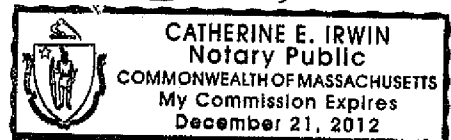
STATE/Commonwealth of MassachusettsCOUNTY OF Middlesex

On this 10th day of August, 2011, then personally appeared before me the above-named Gregory Stephen Lauer known to me through satisfactory evidence of identification ☐ employee identification card; ☐ driver's license; ☐ (other) _____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Catherine E. Irwin

Notary Public

Print Name:

My Commission expires 12/21/12

- 6 -

Date: 8/3/2011


Inventor's Signature

Print full name of first inventor:

Walter Clark Milliken

Residence:

24 Cottonwood Drive, Dover, NH 03820

Citizenship:

US

Mailing Address:

Same as above

Date: 8/9/2011Gregory D. Troxel
Inventor's Signature

Print full name of first inventor:

Gregory Donald Troxel

Residence:

POB 225, Stow, MA 01775

Citizenship:

US

Mailing Address:

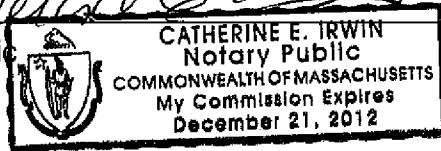
Same as above

STATE/Commonwealth of Massachusetts
COUNTY OF Middlesex

On this 9th day of August, 2011, then personally appeared before me the above-named Gregory Donald Troxel known to me through satisfactory evidence of identification ☒ employee identification card; ☐ driver's license; ☐ (other) _____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Notary Public

Print Name:

My Commission expires 12/21/12