

PATENT ASSIGNMENT

Electronic Version v1.1  
Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Derick J. Clack	07/10/2009
Bryan D. Vergato	07/07/2009
Mark D. Bertoglio	07/09/2009
Shaun Botha	07/20/2009
Edward E. Buchwalter	07/09/2009
Guillaume F. Rava	07/10/2009
Yuir Kiryanov	07/17/2009
Thomas Richard Bogart	07/15/2009
Michael A. Passinsky	07/10/2009

RECEIVING PARTY DATA

Name:	Twisted Pair Solutions, Inc.
Street Address:	3131 Elliott Avenue
Internal Address:	Suite 200
City:	Seattle
State/Country:	WASHINGTON
Postal Code:	98121

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12494728

CORRESPONDENCE DATA

Fax Number: (206)682-6031

*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*

Phone: 206-622-4900

Email: janicek@seedip.com

Correspondent Name: SEED IP LAW GROUP PLLC

Address Line 1: 701 FIFTH AVENUE

CH \$40.00 12494728

500963106

PATENT  
REEL: 023235 FRAME: 0841

Address Line 2: SUITE 5400  
Address Line 4: SEATTLE, WASHINGTON 98104

ATTORNEY DOCKET NUMBER:	910150.403
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NAME OF SUBMITTER:	E. Russell Tarleton
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Total Attachments: 8  
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## ASSIGNMENT

WHEREAS, we, Derick J. Clack, Bryan D. Vergato, Mark D. Bertoglio, Shau Botha, Edward E. Buchwalter, Guillaume F. Rava, Yuri Kriyanov, Thomas Richard Bogart, and Michael A. Passinsky (hereinafter referred to as ASSIGNORS), having mailing addresses of 222 W. Comstock Street, Seattle, Washington 98119; 5230 SW Forest Street, Seattle, Washington 98116, 1623 34th Avenue, Seattle, Washington 98122, 7409 Woodlawn Avenue NE, Seattle, Washington 98115, 2233 102nd Place SE, Bellevue, Washington 98004, 12026 10th Avenue NW, Seattle, Washington 98177, 9910 NE 137th Street, C309, Kirkland, Washington 98034, 203 W. Comstock Street, Apt. 5, Seattle, Washington 98119, and 2516 14th Avenue W., #308, Seattle, Washington 98119, respectively, are the joint inventors of an invention entitled "METHOD, APPARATUS, SYSTEM, AND ARTICLE OF MANUFACTURE FOR RELIABLE LOW-BANDWIDTH INFORMATION DELIVERY ACROSS MIXED-MODE UNICAST AND MULTICAST NETWORKS," as described and claimed in the specification for which an application for United States letters patent was filed on June 30, 2009, and assigned Application No. 12/494,728; and an international application was filed on June 30, 2009, and assigned Application No. PCT/US2009/049181. This application claims the benefit of U.S. Provisional Application No. 61/077,413, filed on July 1, 2008 and U.S. Provisional Application No. 61/101,466, filed on September 30, 2009.


WHEREAS, Twisted Pair Solutions, Inc. (hereinafter referred to as ASSIGNEE), a corporation of the State of Washington having a place of business at 3131 Elliott Avenue, Suite 200, Seattle, Washington 98121, is desirous of acquiring the entire right, title and interest in and to the patent application and in and to any letters patent(s) that claim the priority benefit of the patent application in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions including any extensions or adjustments in term thereof and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and

its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

This assignment is considered effective as of June 29, 2009.

7/10/2009  
 Date \_\_\_\_\_  
 State of Washington )  
 County of Snohomish ) ss.

  
 \_\_\_\_\_  
 Derick J. Clack

I certify that I know or have satisfactory evidence that Derick J. Clack is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

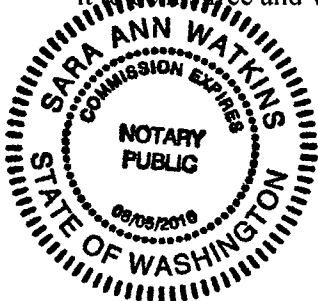
Dated July 10, 2009  
 Signature of Sara Ann Watkins  
 Notary Public \_\_\_\_\_  
 Printed Name Sara Ann Watkins  
 My appointment expires Aug 5, 2010



Date 7/7/09Bryan D. Vergato  
Bryan D. VergatoState of Washington)  
County of Snohomish)

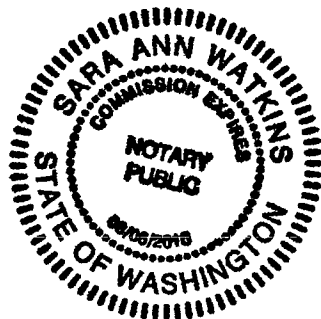
ss.

I certify that I know or have satisfactory evidence that Bryan D. Vergato is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

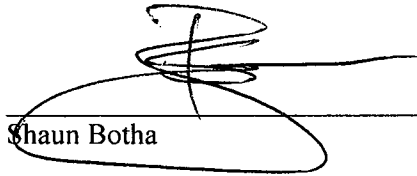
Dated July 7, 2009Signature of Notary Public Sara Ann WatkinsPrinted Name Sara Ann WatkinsMy appointment expires Aug 5, 2010Date 7/9/09Mark D. Bertoglio  
Mark D. BertoglioState of Washington)  
County of Snohomish)

ss.

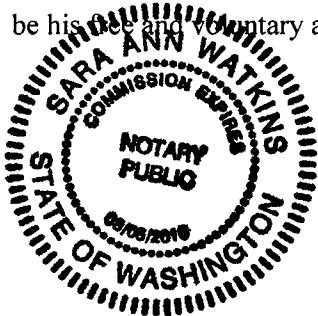
I certify that I know or have satisfactory evidence that Mark D. Bertoglio is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated July 9, 2009Signature of Notary Public Sara Ann WatkinsPrinted Name Sara Ann WatkinsMy appointment expires Aug 5 2010

7/20/09  
 Date \_\_\_\_\_  
 State of WASHINGTON )  
 County of Snohomish ) ss.

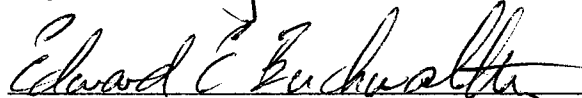
  
 \_\_\_\_\_  
 Shaun Botha

I certify that I know or have satisfactory evidence that Shaun Botha is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

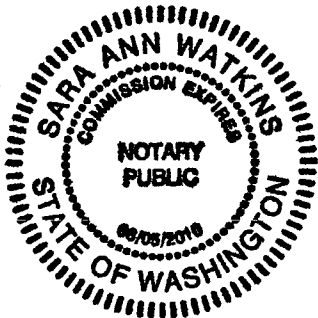


Dated July 20, 2009  
 Signature of Sara Ann Watkins  
 Notary Public \_\_\_\_\_  
 Printed Name Sara Ann Watkins  
 My appointment expires Aug 5, 2010

7-9-09  
 Date \_\_\_\_\_  
 State of Washington )  
 County of Snohomish ) ss.

  
 \_\_\_\_\_  
 Edward E. Buchwalter

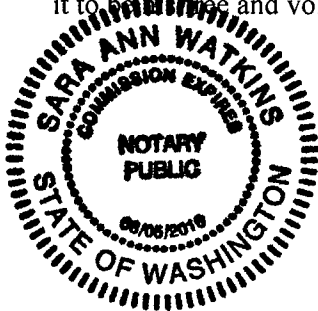
I certify that I know or have satisfactory evidence that Edward E. Buchwalter is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.



Dated July 9, 2009  
 Signature of Sara Ann Watkins  
 Notary Public \_\_\_\_\_  
 Printed Name Sara Ann Watkins  
 My appointment expires Aug 5, 2010

7/10/2009  
 Date Guillaume F. Rava  
 State of Washington )  
 County of Snohomish ) ss.

I certify that I know or have satisfactory evidence that Guillaume F. Rava is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.



Dated July 10, 2009  
 Signature of Sara Ann Watkins  
 Notary Public  
 Printed Name Sara Ann Watkins  
 My appointment expires Aug 5, 2010

Date \_\_\_\_\_  
 State of \_\_\_\_\_ )  
 County of \_\_\_\_\_ ) ss.

Yuri Kiryanov

I certify that I know or have satisfactory evidence that Yuri Kiryanov is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

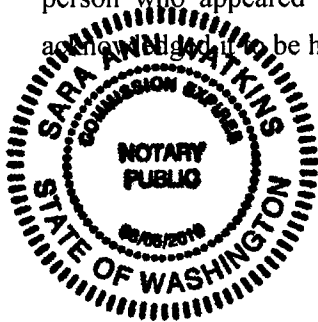
Dated \_\_\_\_\_  
 Signature of \_\_\_\_\_  
 Notary Public  
 Printed Name \_\_\_\_\_  
 My appointment expires \_\_\_\_\_

7-15-09  
Date

Thomas Richard Bogart  
Thomas Richard Bogart

State of Washington )  
County of Snohomish ) ss.

I certify that I know or have satisfactory evidence that Thomas Richard Bogart is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.



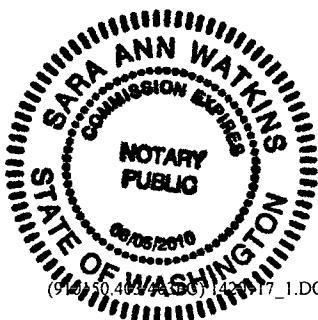
Dated July 15, 2009  
Signature of Notary Public Sara Ann Watkins  
Printed Name Sara Ann Watkins  
My appointment expires Aug 5, 2010

7/10/2009  
Date

Michael A. Passinsky  
Michael A. Passinsky

State of Washington )  
County of Snohomish ) ss.

I certify that I know or have satisfactory evidence that Michael A. Passinsky is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.



Dated July 10, 2009  
Signature of Notary Public Sara Ann Watkins  
Printed Name Sara Ann Watkins  
My appointment expires Aug 5, 2010

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\_\_\_\_\_  
Date  
Guillaume F. Rava  
\_\_\_\_\_  
State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.

I certify that I know or have satisfactory evidence that Guillaume F. Rava is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated \_\_\_\_\_  
Signature of  
Notary Public \_\_\_\_\_  
Printed Name \_\_\_\_\_  
My appointment expires \_\_\_\_\_

7/17/2009  
Date  
Yuri Kiryanov  
\_\_\_\_\_  
State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.

I certify that I know or have satisfactory evidence that Yuri Kiryanov is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated \_\_\_\_\_  
Signature of  
Notary Public *See attached*  
Printed Name \_\_\_\_\_  
My appointment expires \_\_\_\_\_

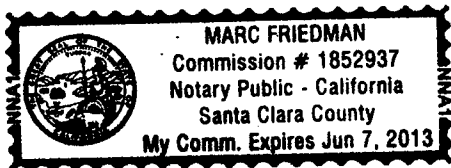
# CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Santa Clara

On 7/17/09 before me, Marc Friedman, Notary Public  
Date Here Insert Name and Title of the Officer

personally appeared Yuri Kiryanov  
Name(s) of Signer(s)



who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

Signature of Notary Public

Place Notary Seal Above

## OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

### Description of Attached Document

Title or Type of Document:

Patent's Filing

Document Date:

7/17/09

Number of Pages:

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Signer(s) Other Than Named Above:

### Capacity(ies) Claimed by Signer(s)

Signer's Name:

- ☐ Individual  
☐ Corporate Officer — Title(s):  
☐ Partner — ☐ Limited ☐ General  
☐ Attorney in Fact  
☐ Trustee  
☐ Guardian or Conservator  
☐ Other:

Signer Is Representing:

Signer's Name:

- ☐ Individual  
☐ Corporate Officer — Title(s):  
☐ Partner — ☐ Limited ☐ General  
☐ Attorney in Fact  
☐ Trustee  
☐ Guardian or Conservator  
☐ Other:

Signer Is Representing:

RIGHT THUMBPRINT  
OF SIGNER  
Top of thumb here

RIGHT THUMBPRINT  
OF SIGNER  
Top of thumb here