

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT																				
NATURE OF CONVEYANCE:	Corrective Assignment to correct the spelling of conveying party's name from Yuir Kiryanov to Yuri Kiryanov previously recorded on Reel 023235 Frame 0841. Assignor(s) hereby confirms the Assignment of the entire right title and interest to.																				
CONVEYING PARTY DATA																					
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Derick J. Clack</td> <td>07/10/2009</td> </tr> <tr> <td>Bryan D. Vergato</td> <td>07/07/2009</td> </tr> <tr> <td>Mark D. Bertoglio</td> <td>07/09/2009</td> </tr> <tr> <td>Shaun Botha</td> <td>07/20/2009</td> </tr> <tr> <td>Edward E. Buchwalter</td> <td>07/09/2009</td> </tr> <tr> <td>Guillaume F. Rava</td> <td>07/10/2009</td> </tr> <tr> <td>Yuri Kiryanov</td> <td>07/17/2009</td> </tr> <tr> <td>Thomas Richard Bogart</td> <td>07/15/2009</td> </tr> <tr> <td>Michael A. Passinsky</td> <td>07/10/2009</td> </tr> </tbody> </table>		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	Yuri Kiryanov	07/17/2009	Thomas Richard Bogart	07/15/2009	Michael A. Passinsky	07/10/2009
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CORRESPONDENCE DATA																					
Fax Number:	2066826031																				
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																					
Phone:	206-622-4900																				
Email:	YvetteC@SeedIP.com																				
Correspondent Name:	Jeremiah J. Baunach																				

CH \$40.00 12494728

Address Line 1: 701 Fifth Avenue, Suite 5400
Address Line 4: Seattle, WASHINGTON 98104

ATTORNEY DOCKET NUMBER: 910150.403

NAME OF SUBMITTER: Jeremiah J. Baunach

Total Attachments: 10
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09/15/2009
 500963106

SUBMISSION TYPE:	NEW ASSIGNMENT																				
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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

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.

Date 7/10/2009
 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 Notary Public Sara Ann Watkins
 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)

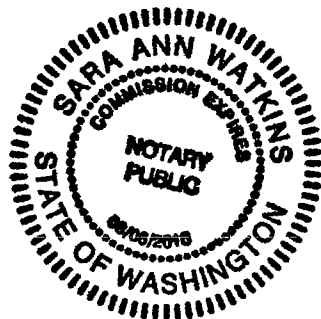
ss.

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.

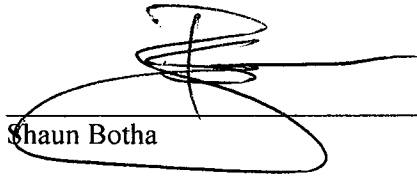
Dated July 7, 2009Signature of Notary Public Sara Ann WatkinsPrinted Name Sara Ann WatkinsMy appointment expires Aug 5, 2010Date 7/9/09Mark D. Bertoglio
Mark D. BertoglioState of Washington)
County of Snohomish)

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.



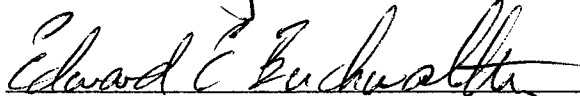
 Shaun Botha

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.



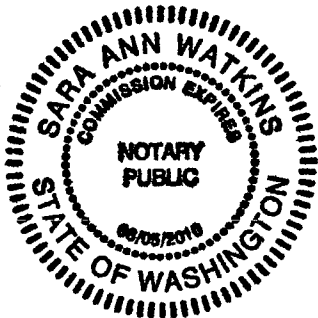
Dated July 20, 2009
 Signature of Sara Ann Watkins
 Notary Public _____
 Printed Name Sara Ann Watkins
 My appointment expires Aug 5, 2010

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.

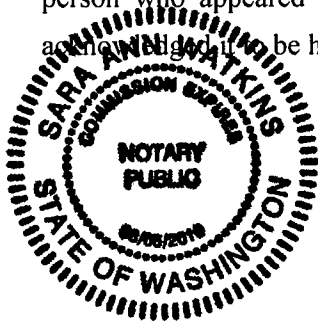
Dated _____
 Signature of _____
 Notary Public
 Printed Name _____
 My appointment expires _____

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.



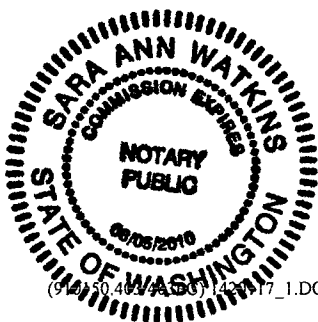
Dated July 15, 2009
Signature of Sara Ann Watkins
Notary Public
Printed Name Sara Ann Watkins
My appointment expires Aug 5, 2010

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 Sara Ann Watkins
Notary Public
Printed Name Sara Ann Watkins
My appointment expires Aug 5, 2010

(9-0000403-9A-000)123417_1.DOC

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

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 *See attached*
Printed Name _____
My appointment expires _____

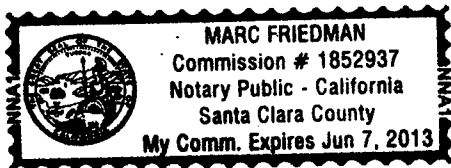
CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

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

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Patent's Filing

Document Date:

7/17/09

Number of Pages:

5

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:

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☐ 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

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OF SIGNER
Top of thumb here