

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT | | | | | | | | | | |
|--|---|---------------|----------------|---------------------|------------|----------|------------|----------|------------|---------------|------------|
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the spelling of the assignee's name previously recorded on Reel 023491 Frame 0649. Assignor(s) hereby confirms the correct spelling of the assignee's name is Waltical Solutions, Inc. | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Xiaodong Li</td> <td>04/08/2005</td> </tr> <tr> <td>Titus Lo</td> <td>04/08/2005</td> </tr> <tr> <td>Kemin Li</td> <td>04/08/2005</td> </tr> <tr> <td>Haiming Huang</td> <td>04/08/2005</td> </tr> </tbody> </table> | | Name | Execution Date | Xiaodong Li | 04/08/2005 | Titus Lo | 04/08/2005 | Kemin Li | 04/08/2005 | Haiming Huang | 04/08/2005 |
| Name | Execution Date | | | | | | | | | | |
| Xiaodong Li | 04/08/2005 | | | | | | | | | | |
| Titus Lo | 04/08/2005 | | | | | | | | | | |
| Kemin Li | 04/08/2005 | | | | | | | | | | |
| Haiming Huang | 04/08/2005 | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | |
| Name: | Waltical Solutions, Inc. | | | | | | | | | | |
| Street Address: | 1750 112th Ave. NE | | | | | | | | | | |
| Internal Address: | Suite D159 | | | | | | | | | | |
| City: | Bellevue | | | | | | | | | | |
| State/Country: | WASHINGTON | | | | | | | | | | |
| Postal Code: | 98004 | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>10583158</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 10583158 | | | | | | |
| Property Type | Number | | | | | | | | | | |
| Application Number: | 10583158 | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | |
| Fax Number: | (206)359-7198 | | | | | | | | | | |
| Email: | assignmentconfirmations@perkinscoie.com | | | | | | | | | | |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i> | | | | | | | | | | | |
| Correspondent Name: | Perkins Coie LLP Patent - SEA | | | | | | | | | | |
| Address Line 1: | P.O. Box 1247 | | | | | | | | | | |
| Address Line 4: | Seattle, WASHINGTON 98111-1247 | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | 61240-8008.US01 | | | | | | | | | | |
| NAME OF SUBMITTER: | Stephen C. Bishop | | | | | | | | | | |

OP \$40.00 10583158

501699819

PATENT
REEL: 027107 FRAME: 0113

Total Attachments: 191

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

DECLARATION OF TITUS LO UNDER MPEP 323.01(b)

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

Sir:

1. I am Vice President of Technology and Operations at NEOCIFIC, INC., assignee of the patent applications listed in the attached table (the "**Applications**"). Through my work at NEOCIFIC, INC., I have first-hand knowledge of the patents and applications owned by NEOCIFIC, INC.

2. Through knowledge and belief, I understand that the rights in the Applications were assigned to NEOCIFIC, INC. from WALTICAL SOLUTIONS, INC. as reflected in the assignments recorded at the Reel/Frame numbers in column (3) of the attached table. A copy of the assignment document from WALTICAL SOLUTIONS, INC. to NEOCIFIC, INC. for each application is provided in an exhibit as noted in column (4) of the table. A copy of the Notice of Recordation of each assignment document is provided in an exhibit as noted in column (5) of the table.

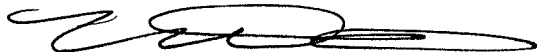
3. I was previously Vice President of Engineering and Operations at WALTICAL SOLUTIONS, INC. Through my work at WALTICAL SOLUTIONS, INC., I have first-hand knowledge of the patents and applications owned by WALTICAL SOLUTIONS, INC. In 2005, a portion of the assets of WALTICAL SOLUTIONS, INC. were transferred to NEOCIFIC, INC., including the Applications.

4. Through knowledge and belief, I understand that the rights of the inventors in the Applications were initially assigned to WALTICAL SOLUTIONS, INC. as reflected in the assignments recorded at the Reel/Frame numbers in column (6) of the attached

table. A copy of the assignment document from the inventors to WALTICAL SOLUTIONS, INC. for each application is provided in an exhibit as noted in column (7) of the table. A copy of the Notice of Recordation of each assignment document is provided in an exhibit as noted in column (8) of the table.

5. Each assignment recorded from the inventors to WALTICAL SOLUTIONS, INC. includes an inadvertent error. The error is that WALTICAL SOLUTIONS, INC. is identified in each assignment as WALTICAL SOLUTION, INC. The omission of the "s" was a typographical error. The correct spelling of the company name is WALTICAL SOLUTIONS, INC. Attached as Exhibit J is an online printout from the Washington Secretary of State showing that the correct spelling of the company name is WALTICAL SOLUTIONS, INC., as incorporated in Washington on November 7, 2003. Accordingly, the current assignee, NEOCIFIC, INC. hereby requests correction of the inadvertent error in each assignment recorded at the Reel/Frame numbers listed in column (6) of the table.

6. I further declare that all statements herein made of my own knowledge are true, and that all statements made on information or belief are believed to be true; and further, that the statements are made with the knowledge that the making of willful or false statements or the like is punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and may jeopardize the validity of any patents issuing from the present patent applications.



Name: Titus Lo

Title: Vice President of Technology and Operations

Neocific, Inc.

Date: 10/19/2011

Docket No.: 612408000

Patent Applications

| Application Serial No. Column (1) | Filing Date Column (2) | Reel/Frame Number Column (3) | Assignment Column (4) | Notice of Recordation of Assignment Column (5) | Reel/Frame Number Column (6) | Assignment Column (7) | Notice of Recordation of Assignment Column (8) |
|-----------------------------------|------------------------|------------------------------|-----------------------|--|------------------------------|-----------------------|--|
| 10/583,529 | 6/16/2006 | 017363 / 0370 | Exhibit A1 | Exhibit A2 | 023479 / 0163 | Exhibit A3 | Exhibit A4 |
| 10/583,239 | 10/16/2008 | 017363 / 0370 | Exhibit B1 | Exhibit B2 | 021757 / 0963 | Exhibit B3 | Exhibit B4 |
| 10/583,229 | 8/27/2008 | 017363 / 0370 | Exhibit C1 | Exhibit C2 | 023489 / 0816 | Exhibit C3 | Exhibit C4 |
| 10/583,158 | 8/27/2008 | 017363 / 0370 | Exhibit D1 | Exhibit D2 | 023491 / 0649 | Exhibit D3 | Exhibit D4 |
| 11/568,385 | 8/16/2007 | 017363 / 0370 | Exhibit E1 | Exhibit E2 | 023175 / 0461 | Exhibit E3 | Exhibit E4 |
| 11/569,064 | 6/12/2007 | 017363 / 0370 | Exhibit F1 | Exhibit F2 | 023491 / 0061 | Exhibit F3 | Exhibit F4 |
| 11/571,468 | 11/28/2007 | 023492 / 0200 | Exhibit H1 | Exhibit H2 | 023492 / 0172 | Exhibit H3 | Exhibit H4 |
| 11/571,469 | 10/9/2008 | 023492 / 0371 | Exhibit I1 | Exhibit I2 | 023492 / 0350 | Exhibit I3 | Exhibit I4 |

EXHIBIT A1

42938-800 US

RECORDATION FORM COVER SHEET
PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):

Waltical Solutions, Inc.

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

Name: Neocific, Inc.

Internal Address: _____

Street Address: _____

13312 SE 43rd Street

City: Bellevue

State: Washington

Country: United States of America Zip: 98006

Additional name(s) & address(es) attached: Yes No

3. Nature of conveyance/Execution Date(s):

Execution Date(s): December 14, 2005

Assignment Merger Change of Name

Security Agreement Joint Research Agreement

Government Interest Assignment

Executive Order 9424, Confirmatory License

Other _____

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

| | | |
|------------|------------|------------|
| US05/01939 | US05/04601 | US05/03889 |
| 10/456,654 | 10/360,007 | US05/03518 |
| US05/08169 | US05/14828 | US05/14835 |
| US05/23399 | 60/665,184 | 60/665,205 |
| 60/688,937 | 60/704,141 | 60/721,451 |

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Christopher J. Daley-Watson
PERKINS COIE LLP

Internal Address: Atty. Dkt.: 429388000US

Street Address: P.O. Box 1247

City: Seattle

State: WA Zip: 98111-1247

Phone Number: (206) 359-8000

Fax Number: (206) 359-9000

Email Address: _____

6. Total number of applications and patents involved:

15

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 600.00

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____

Expiration Date _____

b. Deposit Account Number _____

Authorized User Name _____

9. Signature:

December 15, 2005

Signature

Date

Christopher J. Daley-Watson - 34,807

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

5

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV758928963US, in an envelope addressed to: MS Assignment Recordation Services, Director of the US Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: 12/16/05

Signature: Peter Sher (Peter Sher)

ASSIGNMENT

Waltical Solutions, Inc., a corporation organized under and pursuant to the laws of Washington, having its principal place of business at 1750 112th Avenue NE, Suite D 159; Bellevue, Washington 98004 (hereinafter referred to as "Assignor"), is the sole and exclusive owner, by assignment, of the Patent Applications listed in Schedule A; and

Neocific, Inc., a corporation organized under and pursuant to the laws of Delaware, having its principal place of business at 13312 SE 43rd Street, Bellevue, Washington 98006 (hereinafter referred to as "Assignee"), desires to acquire the right, title and interest in, to and under said Patent Applications and the inventions covered thereby;

For valuable consideration, the receipt and sufficiency of which Assignor acknowledges, Assignor hereby sells, assigns, and transfers to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to said applications for all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefore in the United States of America and all other countries on the attached list of *Schedule A*, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on *Schedule A* to said assignee herein, as assignee of the entire interest therein; and the undersigned for itself and its legal representatives, heirs and assigns does hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, continuation-in-part, reissue and other applications for Letters Patent and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said inventions listed on *Schedule A* whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said inventions listed on *Schedule A* in the United States of America and all other countries, the expenses incident to said applications listed on *Schedule A* to be borne and paid by said assignee.

SCHEDULE A

| Application Number (Patent Number) | Filing Date | Inventor | Title | Ctry |
|---|--------------------|--|---|-------------|
| US05/01939 | Jan. 20, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER, MULTI-CELL WIRELESS COMMUNICATION NETWORKS | PCT |
| US05/04601 | Feb. 14, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS SYSTEMS WITH ADAPTIVE TRANSMISSION AND FEEDBACK | PCT |
| US05/03889 | Feb. 7, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS SYSTEMS WITH AUTOMATIC REPEAT REQUEST (ARQ) | PCT |
| 10/456,654 | June 5, 2003 | Titus Lo | ADAPTIVE COMMUNICATIONS SYSTEM AND METHOD | US |
| 10/360,007 | Feb. 7, 2003 | Wen-Ping Ying | PROTECTING INFORMATION TRANSMISSIONS VIA ENCRYPTION, SUCH AS WITH KEY HOPPING TECHNIQUES IN AN 802.11 WIRELESS NETWORK | US |
| US05/03518 | Jan. 27, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR OVERLAYING MULTI-CARRIER AND DIRECT SEQUENCE SPREAD SPECTRUM SIGNALS IN A BROADBAND WIRELESS COMMUNICATION SYSTEM | PCT |
| US05/08169 | March 9, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHOD AND APPARATUS FOR RANDOM ACCESS IN MULTI-CARRIER COMMUNICATION SYSTEMS | PCT |
| US05/14828 | April 29, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS WITH VARIABLE CHANNEL BANDWIDTH | PCT |
| US05/14835 | April 29, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR COMMUNICATION SYSTEM WITH TIME-DIVISION DUPLEXING | PCT |
| US05/23399 | June 29, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang, Jun Meng | METHODS AND APPARATUS FOR POWER CONTROL IN MULTI-CARRIER SYSTEMS | PCT |
| 60/665,184 | Mar. 25, 2005 | Haiming Huang, Xiaodong Li, Titus Lo, Kemin Li | METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION SYSTEM | US |

| | | | | |
|------------|----------------|--|--|----|
| 60/665,205 | Mar. 25, 2005 | Haiming Huang, Xiaodong Li, Titus Lo, Kemin Li | METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA NETWORKS | US |
| 60/688,937 | June 9, 2005 | Haiming Huang, Xiaodong Li, Titus Lo, Kemin Li | METHODS AND APPARATUS FOR A POWER EFFICIENT BROADCASTING AND COMMUNICATION SYSTEM | US |
| 60/704,141 | July 29, 2005 | Titus Lo, Xiaodong Li, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS USING NON-UNIFORM SYMBOL STRUCTURES | US |
| 60/721,451 | Sept. 28, 2005 | Xiaodong Li, Haiming Huang, Titus Lo, Ruifeng Wang | METHOD AND APPARATUS FOR MULTI-CARRIER PACKET COMMUNICATION WITH REDUCED OVERHEAD | US |

Waltical Solutions, Inc.

By: [Signature]

Name: XIAODONG LI

Title: PRESIDENT

Date: December 14, 2005

United States of America)
State of Washington) ss.:
County of King)

On this 14th day of December, 2005, before me personally came Xiaodong Li, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

[Signature]
Notary Public
my comm. exp. December 10, 2008

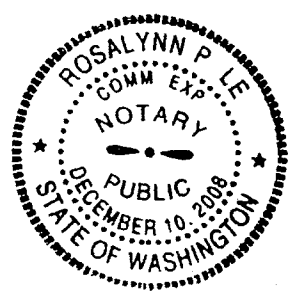


EXHIBIT A2



42938 8004 US1
 ATA 104
 8010 WD 8005 US3
 8003 WD 8015 US
 8011 WD 8001 WD
 8006 WD 8008 WD
 8012 WD
 8002 WD

UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
 DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MARCH 25, 2006

PTAS



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CHRISTOPHER J. DALEY-WATSON
 PERKINS COIE LLP
 P.O. BOX 1247
 SEATTLE, WA 98111-1247

RECEIVED
 PATENT DOCKETING

APR 07 2006

PERKINS COIE LLP

DOCKETED

UNITED STATES PATENT AND TRADEMARK OFFICE
 NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 12/15/2005

REEL/FRAME: 017363/0370

NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 429388000US

ASSIGNOR:

WALTICAL SOLUTIONS, INC.

DOC DATE: 12/14/2005

ASSIGNEE:

NEOCIFIC, INC.
 13312 SE 43RD STREET
 BELLEVUE, WASHINGTON 98006

SERIAL NUMBER: 10456654

FILING DATE: 06/05/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: ADAPTIVE COMMUNICATIONS SYSTEM AND METHOD

SERIAL NUMBER: 60688937

FILING DATE: 06/09/2005

PATENT NUMBER:

ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR A POWER EFFICIENT BROADCASTING AND COMMUNICATION SYSTEM

SERIAL NUMBER: 10360007 FILING DATE: 02/07/2003
PATENT NUMBER: ISSUE DATE:
TITLE: PROTECTING INFORMATION TRANSMISSIONS VIA ENCRYPTION, SUCH AS WITH
KEY HOPPING TECHNIQUES IN AN 802.11 WIRELESS NETWORK

SERIAL NUMBER: 60665184 FILING DATE: 03/25/2005
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION
SYSTEM

SERIAL NUMBER: 60704141 FILING DATE: 07/29/2005
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS USING NON-
UNIFORM SYMBOL STRUCTURES

SERIAL NUMBER: 60665205 FILING DATE: 03/25/2005
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA
NETWORK

SERIAL NUMBER: 60721451 FILING DATE: 09/28/2005
PATENT NUMBER: ISSUE DATE:
TITLE: METHOD AND APPARATUS FOR MULTI-CARRIER PACKET COMMUNICATION WITH
REDUCED OVERHEAD

SERIAL NUMBER: FILING DATE: 01/20/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0501939
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER, MULTI-CELL WIRELESS
COMMUNICATION NETWORKS

SERIAL NUMBER: FILING DATE: 03/09/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0508169
TITLE: METHODS AND APPARATUS FOR RANDOM ACCESS IN MULTI-CARRIER
COMMUNICATION SYSTEMS

SERIAL NUMBER: FILING DATE: 06/29/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0523399
TITLE: METHODS AND APPARATUS FOR POWER CONTROL IN MULTI-CARRIER WIRELESS
SYSTEMS

SERIAL NUMBER: FILING DATE: 02/14/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0504601
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATION SYSTEMS WITH
ADAPTIVE TRANSMISSION AND FEEDBACK

SERIAL NUMBER: FILING DATE: 04/29/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0514828
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS WITH
VARIABLE CHANNEL BANDWIDTH

017363/0370 PAGE 3

SERIAL NUMBER: FILING DATE: 02/07/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0503889
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATION SYSTEMS WITH
AUTOMATIC REPEAT REQUEST (ARQ)

SERIAL NUMBER: FILING DATE: 01/27/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0503518
TITLE: METHODS AND APPARATUS FOR OVERLAYING MULTI-CARRIER AND DIRECT
SEQUENCE SPREAD SPECTRUM SIGNAL IN A BROADBAND WIRELESS
COMMUNICATION SYSTEM

SERIAL NUMBER: FILING DATE: 04/29/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0514835
TITLE: METHODS AND APPARATUS FOR COMMUNICATION WITH TIME-DIVISION DUPLEXING

SHAREILL COLES, EXAMINER
ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

12-21-2005

Form PTO-1595 (Rev. 07/05)
OMB No. 0651-0027 (exp. 6/06)



U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

3 SHEET

103141387

Y

12-51-21

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):
Waltical Solutions, Inc.

2. Name and address of receiving party(ies)

Name: Neocific, Inc.

Internal Address:

Street Address:

13312 SE 43rd Street

City: Bellevue

State: Washington

Country: United States of America Zip: 98006

Additional name(s) & address(es) attached: Yes No

3. Nature of conveyance/Execution Date(s):

Execution Date(s): December 14, 2005

Assignment Merger Change of Name

Security Agreement Joint Research Agreement

Government Interest Assignment

Executive Order 9424, Confirmatory License

Other

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

| | | |
|------------|------------|------------|
| US05/01939 | US05/04601 | US05/03889 |
| 10/456,654 | 10/360,007 | US05/03518 |
| US05/08169 | US05/14828 | US05/14835 |
| US05/23399 | 60/665,184 | 60/665,205 |
| 60/688,937 | 60/704,141 | 60/721,451 |

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Christopher J. Daley-Watson
PERKINS COIE LLP

Internal Address: Atty. Dkt.: 429388000US

Street Address: P.O. Box 1247

City: Seattle

State: WA Zip: 98111-1247

Phone Number: (206) 359-8000

Fax Number: (206) 359-9000

Email Address:

6. Total number of applications and patents involved: 15

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 600.00

Authorized to be charged by credit card

Authorized to be charged to deposit account

Enclosed

None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number _____
Authorized User Name _____

9. Signature:

Signature

December 15, 2005

Date

Christopher J. Daley-Watson - 34,807

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 5

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV758928963US, in an envelope addressed to: MS Assignment Recordation Services, Director of the US Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Dated: 12/16/05

Signature: Peter Sher

(Peter Sher)

12/20/2005 ECDOPER 00000048 PCT/US05/01939
01 FC:8021 600.00 DP

EXHIBIT A3

ASSIGNMENT BY INVENTORS

This Assignment is by Xiaodong Li; Titus Lo; Haiming Huang; and Kemin Li (the "Assignors"), residing at 9919 129th PL NE, Kirkland, Washington 98033; 10501 181st Ave. NE, Redmond, Washington 98052; 605 141st CT SE #D203, Bellevue, Washington 98007; and 4228 144th LN SE, Bellevue, 98006, respectively. The Assignors have invented one or more certain inventions (the "Invention(s)") described in a Patent application for Letters Patent of the United States entitled METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATION SYSTEMS WITH ADAPTIVE TRANSMISSION AND FEEDBACK (the "Application"), executed concurrently herewith and naming the Assignors as inventors. The Assignors authorize the Assignee, identified below, or its representatives to insert the application number of the Application US05/04601 when known.

Waltical Solution, Inc. (formerly Walbell Technologies, Inc.), a corporation of Washington having its principal place of business at Suite D159, 1750 112th Ave. NE, Bellevue, Washington 98004 ("Assignee"), desires to acquire the entire right, title and interest in and to the Invention(s) and the Application, and in and to any patents (collectively, "Patents") that may be granted for the Invention(s) in the United States or in any foreign countries.

For valuable consideration, the receipt and sufficiency of which Assignors acknowledge, Assignors hereby sell, assign, and transfer to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to: the Invention(s), the Application, and any Patents; any divisions, continuations, and continuations-in-part of the Application and any other application claiming priority rights from the Application; any reissues, reexaminations, or extensions of any and all Patents; the right to file foreign applications directly in the name of Assignee; and the right to claim priority rights deriving from the Application (collectively, the "Rights"). Assignors warrant that Assignors own the Rights, and that the Rights are unencumbered. Assignors also agree to not sign any writing or do any act conflicting

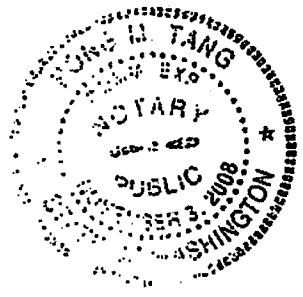
with this assignment, and, without further compensation, sign all documents and do such additional acts as Assignee deems necessary or desirable to: perfect Assignee's enjoyment of the Rights; conduct proceedings regarding the Rights, including any litigation or interference proceedings; or perfect or defend title to the Rights. Assignors request the Commissioner of Patents to issue any Patent of the United States that may be issued on the Invention(s) to Assignee. This Assignment may be executed in counterparts.

[Signature]
Xiaodong Li

Date: 4/8/2005

United States of America
State of Washington ss.:
County of Frye

On this 8th day of April, 2005, before me personally came Xiaodong Li, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



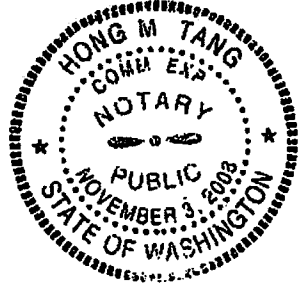
[Signature]
Notary Public

[Signature]
Titus Lo

Date: Apr 8 2005

United States of America
State of Washington) ss.:
County of King)

On this 8th day of April, 2005, before me
personally came Titus Lo, to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.



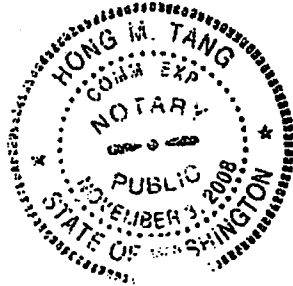
[Signature]
Notary Public

Haiming Huang
Haiming Huang

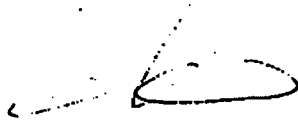
Date: April 8, 2005

United States of America
State of Washington ss.:
County of King

On this 8th day of April, 2005, before me personally came Haiming Huang, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Hong M. Tang
Notary Public

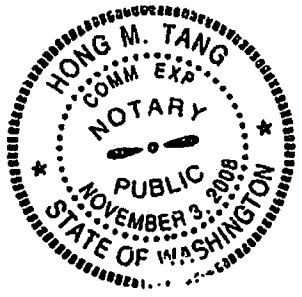



Kemin Li

Date: Apr 8, 2005

United States of America
State of Washington) ss.:
County of King)

On this 8th day of April, 2005, before me
personally came Kemin Li, to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.





Notary Public

EXHIBIT A4

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

**UNITED STATES PATENT AND TRADEMARK OFFICE**UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

501008023A

NOVEMBER 06, 2009

PTAS

STEPHANIE OLSON
PO BOX 1247
SEA-PAT
SEATTLE, WA 98111-1247UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENTTHE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF
THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS
AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER
REFERENCED BELOW.PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE
INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA
PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD
FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY
CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350.
PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE,
MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 11/05/2009

REEL/FRAME: 023479/0163

NUMBER OF PAGES: 8

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: 61240.8002 US01

ASSIGNOR:

LI, XIAODONG

DOC DATE: 04/08/2005

ASSIGNOR:

LO, TITUS

DOC DATE: 04/08/2005

ASSIGNOR:

HUANG, HAIMING

DOC DATE: 04/08/2005

ASSIGNOR:

LI, KEMIN

DOC DATE: 04/08/2005

ASSIGNEE:

WALTICAL SOLUTION, INC.
112TH AVE. NE
SUITE D159
BELLEVUE, WASHINGTON 98004

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

023479/0163 PAGE 2

SERIAL NUMBER: 10583529

FILING DATE: 05/10/2007

PATENT NUMBER:

ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATION SYSTEMS WITH
ADAPTIVE TRANSMISSION AND FEEDBACK

ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

**11/05/2009
 501008023**

| | |
|------------------------------|-----------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------|----------------|
| Xiaodong Li | 04/08/2005 |
| Titus Lo | 04/08/2005 |
| Haiming Huang | 04/08/2005 |
| Kemin Li | 04/08/2005 |

RECEIVING PARTY DATA

| | |
|--------------------------|-------------------------|
| Name: | Waltical Solution, Inc. |
| Street Address: | 112th Ave. NE |
| Internal Address: | Suite D159 |
| City: | Bellevue |
| State/Country: | WASHINGTON |
| Postal Code: | 98004 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 10583529 |

CORRESPONDENCE DATA

Fax Number: (206)359-9219
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Email: solson@perkinscoie.com
 Correspondent Name: Stephanie Olson
 Address Line 1: PO Box 1247
 Address Line 2: SEA-PAT
 Address Line 4: Seattle, WASHINGTON 98111-1247

| | |
|--------------------------------|-----------------|
| ATTORNEY DOCKET NUMBER: | 61240.8002 US01 |
|--------------------------------|-----------------|

| | |
|---------------------------|-------------------|
| NAME OF SUBMITTER: | Stephen C. Bishop |
|---------------------------|-------------------|

OP \$40.00 10583529

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

Total Attachments: 6

source=81240.8002 US01 Exec Assignment Inventors to Waitical#page1.tif

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source=81240.8002 US01 Exec Assignment Inventors to Waitical#page5.tif

source=81240.8002 US01 Exec Assignment Inventors to Waitical#page6.tif

EXHIBIT B1

42938-800 US

RECORDATION FORM COVER SHEET
PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):

Waltical Solutions, Inc.

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

Name: Neocific, Inc.

Internal Address: _____

Street Address: _____

13312 SE 43rd Street

City: Bellevue

State: Washington

Country: United States of America Zip: 98006

Additional name(s) & address(es) attached: Yes No

3. Nature of conveyance/Execution Date(s):

Execution Date(s): December 14, 2005

Assignment Merger Change of Name

Security Agreement Joint Research Agreement

Government Interest Assignment

Executive Order 9424, Confirmatory License

Other _____

4. Application or patent number(s):

A. Patent Application No.(s)

| | | |
|------------|------------|------------|
| US05/01939 | US05/04601 | US05/03889 |
| 10/456,654 | 10/360,007 | US05/03518 |
| US05/08169 | US05/14828 | US05/14835 |
| US05/23399 | 60/665,184 | 60/665,205 |
| 60/688,937 | 60/704,141 | 60/721,451 |

Additional numbers attached? Yes No

This document is being filed together with a new application.

B. Patent No.(s)

5. Name and address to whom correspondence concerning document should be mailed:

Name: Christopher J. Daley-Watson
PERKINS COIE LLP

Internal Address: Atty. Dkt.: 429388000US

Street Address: P.O. Box 1247

City: Seattle

State: WA Zip: 98111-1247

Phone Number: (206) 359-8000

Fax Number: (206) 359-9000

Email Address: _____

6. Total number of applications and patents involved:

15

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 600.00

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____

Expiration Date _____

b. Deposit Account Number _____

Authorized User Name _____

9. Signature:


Signature

December 15, 2005

Date

Christopher J. Daley-Watson - 34,807

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

5

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV758928963US, in an envelope addressed to: MS Assignment Recordation Services, Director of the US Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: 12/16/05 Signature: Peter Sher (Peter Sher)

ASSIGNMENT

Waltical Solutions, Inc., a corporation organized under and pursuant to the laws of Washington, having its principal place of business at 1750 112th Avenue NE, Suite D 159; Bellevue, Washington 98004 (hereinafter referred to as "Assignor"), is the sole and exclusive owner, by assignment, of the Patent Applications listed in Schedule A; and

Neocific, Inc., a corporation organized under and pursuant to the laws of Delaware, having its principal place of business at 13312 SE 43rd Street, Bellevue, Washington 98006 (hereinafter referred to as "Assignee"), desires to acquire the right, title and interest in, to and under said Patent Applications and the inventions covered thereby;

For valuable consideration, the receipt and sufficiency of which Assignor acknowledges, Assignor hereby sells, assigns, and transfers to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to said applications for all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefore in the United States of America and all other countries on the attached list of *Schedule A*, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on *Schedule A* to said assignee herein, as assignee of the entire interest therein; and the undersigned for itself and its legal representatives, heirs and assigns does hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, continuation-in-part, reissue and other applications for Letters Patent and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said inventions listed on *Schedule A* whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said inventions listed on *Schedule A* in the United States of America and all other countries, the expenses incident to said applications listed on *Schedule A* to be borne and paid by said assignee.

SCHEDULE A

| Application Number (Patent Number) | Filing Date | Inventor | Title | Ctry |
|---|--------------------|--|---|-------------|
| US05/01939 | Jan. 20, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER, MULTI-CELL WIRELESS COMMUNICATION NETWORKS | PCT |
| US05/04601 | Feb. 14, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS SYSTEMS WITH ADAPTIVE TRANSMISSION AND FEEDBACK | PCT |
| US05/03889 | Feb. 7, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS SYSTEMS WITH AUTOMATIC REPEAT REQUEST (ARQ) | PCT |
| 10/456,654 | June 5, 2003 | Titus Lo | ADAPTIVE COMMUNICATIONS SYSTEM AND METHOD | US |
| 10/360,007 | Feb. 7, 2003 | Wen-Ping Ying | PROTECTING INFORMATION TRANSMISSIONS VIA ENCRYPTION, SUCH AS WITH KEY HOPPING TECHNIQUES IN AN 802.11 WIRELESS NETWORK | US |
| US05/03518 | Jan. 27, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR OVERLAYING MULTI-CARRIER AND DIRECT SEQUENCE SPREAD SPECTRUM SIGNALS IN A BROADBAND WIRELESS COMMUNICATION SYSTEM | PCT |
| US05/08169 | March 9, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHOD AND APPARATUS FOR RANDOM ACCESS IN MULTI-CARRIER COMMUNICATION SYSTEMS | PCT |
| US05/14828 | April 29, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS WITH VARIABLE CHANNEL BANDWIDTH | PCT |
| US05/14835 | April 29, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR COMMUNICATION SYSTEM WITH TIME-DIVISION DUPLEXING | PCT |
| US05/23399 | June 29, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang, Jun Meng | METHODS AND APPARATUS FOR POWER CONTROL IN MULTI-CARRIER SYSTEMS | PCT |
| 60/665,184 | Mar. 25, 2005 | Haiming Huang, Xiaodong Li, Titus Lo, Kemin Li | METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION SYSTEM | US |

| | | | | |
|------------|----------------|--|--|----|
| 60/665,205 | Mar. 25, 2005 | Haiming Huang, Xiaodong Li, Titus Lo, Kemin Li | METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA NETWORKS | US |
| 60/688,937 | June 9, 2005 | Haiming Huang, Xiaodong Li, Titus Lo, Kemin Li | METHODS AND APPARATUS FOR A POWER EFFICIENT BROADCASTING AND COMMUNICATION SYSTEM | US |
| 60/704,141 | July 29, 2005 | Titus Lo, Xiaodong Li, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS USING NON-UNIFORM SYMBOL STRUCTURES | US |
| 60/721,451 | Sept. 28, 2005 | Xiaodong Li, Haiming Huang, Titus Lo, Ruifeng Wang | METHOD AND APPARATUS FOR MULTI-CARRIER PACKET COMMUNICATION WITH REDUCED OVERHEAD | US |

Waltical Solutions, Inc.

By: *[Signature]*

Name: XIADDONG LI

Title: PRESIDENT

Date: December 14, 2005

United States of America)
State of Washington) ss.:
County of King)

On this 14th day of December, 2005, before me personally came Xiaddong Li, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

[Signature] / Rosalynn
Notary Public
my comm. exp. December 10, 2008

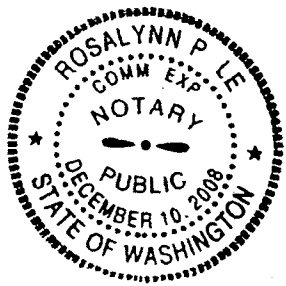


EXHIBIT B2



42938 8004 us1
 8010W0
 8003W0
 8011W0
 8006W0
 ATA 144
 8005 us3
 8015 US
 8001 W0
 8008W0
 8012W0
 8002 W0

UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
 DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MARCH 25, 2006

PTAS



103141387A

CHRISTOPHER J. DALEY-WATSON
 PERKINS COIE LLP
 P.O. BOX 1247
 SEATTLE, WA 98111-1247

RECEIVED
 PATENT DOCKETING

APR 07 2006

PERKINS COIE LLP

DOCKETED

UNITED STATES PATENT AND TRADEMARK OFFICE
 NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 12/15/2005

REEL/FRAME: 017363/0370

NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 429388000US

ASSIGNOR:

WALTICAL SOLUTIONS, INC.

DOC DATE: 12/14/2005

ASSIGNEE:

NEOCIFIC, INC.
 13312 SE 43RD STREET
 BELLEVUE, WASHINGTON 98006

SERIAL NUMBER: 10456654

FILING DATE: 06/05/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: ADAPTIVE COMMUNICATIONS SYSTEM AND METHOD

SERIAL NUMBER: 60688937

FILING DATE: 06/09/2005

PATENT NUMBER:

ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR A POWER EFFICIENT BROADCASTING AND COMMUNICATION SYSTEM

SERIAL NUMBER: 10360007 FILING DATE: 02/07/2003
PATENT NUMBER: ISSUE DATE:
TITLE: PROTECTING INFORMATION TRANSMISSIONS VIA ENCRYPTION, SUCH AS WITH
KEY HOPPING TECHNIQUES IN AN 802.11 WIRELESS NETWORK

SERIAL NUMBER: 60665184 FILING DATE: 03/25/2005
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION
SYSTEM

SERIAL NUMBER: 60704141 FILING DATE: 07/29/2005
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS USING NON-
UNIFORM SYMBOL STRUCTURES

SERIAL NUMBER: 60665205 FILING DATE: 03/25/2005
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA
NETWORK

SERIAL NUMBER: 60721451 FILING DATE: 09/28/2005
PATENT NUMBER: ISSUE DATE:
TITLE: METHOD AND APPARATUS FOR MULTI-CARRIER PACKET COMMUNICATION WITH
REDUCED OVERHEAD

SERIAL NUMBER: FILING DATE: 01/20/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0501939
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER, MULTI-CELL WIRELESS
COMMUNICATION NETWORKS

SERIAL NUMBER: FILING DATE: 03/09/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0508169
TITLE: METHODS AND APPARATUS FOR RANDOM ACCESS IN MULTI-CARRIER
COMMUNICATION SYSTEMS

SERIAL NUMBER: FILING DATE: 06/29/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0523399
TITLE: METHODS AND APPARATUS FOR POWER CONTROL IN MULTI-CARRIER WIRELESS
SYSTEMS

SERIAL NUMBER: FILING DATE: 02/14/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0504601
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATION SYSTEMS WITH
ADAPTIVE TRANSMISSION AND FEEDBACK

SERIAL NUMBER: FILING DATE: 04/29/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0514828
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS WITH
VARIABLE CHANNEL BANDWIDTH

017363/0370 PAGE 3

SERIAL NUMBER: FILING DATE: 02/07/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0503889
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATION SYSTEMS WITH
AUTOMATIC REPEAT REQUEST (ARQ)

SERIAL NUMBER: FILING DATE: 01/27/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0503518
TITLE: METHODS AND APPARATUS FOR OVERLAYING MULTI-CARRIER AND DIRECT
SEQUENCE SPREAD SPECTRUM SIGNAL IN A BROADBAND WIRELESS
COMMUNICATION SYSTEM

SERIAL NUMBER: FILING DATE: 04/29/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0514835
TITLE: METHODS AND APPARATUS FOR COMMUNICATION WITH TIME-DIVISION DUPLEXING

SHAREILL COLES, EXAMINER
ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

12-21-2005

Form PTO-1595 (Rev. 07/05)
OMB No. 0651-0027 (exp. 6/06)

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office



2 SHEET

103141387

Y

12-15-05

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):
Waltical Solutions, Inc.
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
Name: Neocific, Inc.
Internal Address:
Street Address:

3. Nature of conveyance/Execution Date(s):
Execution Date(s): December 14, 2005
 Assignment Merger Change of Name
 Security Agreement Joint Research Agreement
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other

13312 SE 43rd Street
City: Bellevue
State: Washington
Country: United States of America Zip: 98006
Additional name(s) & address(es) attached: Yes No

4. Application or patent number(s): This document is being filed together with a new application.
A. Patent Application No.(s)
US05/01939 US05/04601 US05/03889
10/456,654 10/360,007 US05/03518
US05/08169 US05/14828 US05/14835
US05/23399 60/665,184 60/665,205
60/688,937 60/704,141 60/721,451
Additional numbers attached? Yes No

B. Patent No.(s)
 Yes No

5. Name and address to whom correspondence concerning document should be mailed:
Name: Christopher J. Daley-Watson
PERKINS COIE LLP
Internal Address: Atty. Dkt.: 429388000US
Street Address: P.O. Box 1247
City: Seattle
State: WA Zip: 98111-1247
Phone Number: (206) 359-8000
Fax Number: (206) 359-9000
Email Address:

6. Total number of applications and patents involved: 15
7. Total fee (37 CFR 1.21(h) & 3.41) \$ 600.00
 Authorized to be charged by credit card
 Authorized to be charged to deposit account
 Enclosed
 None required (government interest not affecting title)

9. Signature:
Signature Date
Christopher J. Daley-Watson - 34,807 December 15, 2005
Name of Person Signing Total number of pages including cover sheet, attachments, and documents: 5

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV758928963US, in an envelope addressed to: MS Assignment Recordation Services, Director of the US Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.
Dated: 12/16/05 Signature: Peter Sher (Peter Sher)

12/20/2005 ECDOPER 00000048 PCT/US05/01939
01 FC:8021 600.00 OP

EXHIBIT B3

ASSIGNMENT BY INVENTORS

This Assignment is by Xiaodong Li; Titus Lo; Haiming Huang; and Kemin Li (the "Assignors"), residing at 9919 129th PL NE, Kirkland, Washington 98033; 10501 181st Ave. NE, Redmond, Washington 98052; 605 141st CT SE #D203, Bellevue, Washington 98007; and 4228 144th LN SE, Bellevue, 98006, respectively. The Assignors have invented one or more certain inventions (the "Invention(s)") described in a Patent application for Letters Patent of the United States entitled METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATION SYSTEMS WITH ARQ (the "Application"), executed concurrently herewith and naming the Assignors as inventors. The Assignors authorize the Assignee, identified below, or its representatives to insert the application number of the Application 4505/03889 when known.

Waltical Solution, Inc. (formerly Walbell Technologies, Inc.), a corporation of Washington having its principal place of business at Suite D159, 1750 112th Ave. NE, Bellevue, Washington 98004 ("Assignee"), desires to acquire the entire right, title and interest in and to the Invention(s) and the Application, and in and to any patents (collectively, "Patents") that may be granted for the Invention(s) in the United States or in any foreign countries.

For valuable consideration, the receipt and sufficiency of which Assignors acknowledge, Assignors hereby sell, assign, and transfer to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to: the Invention(s), the Application, and any Patents; any divisions, continuations, and continuations-in-part of the Application and any other application claiming priority rights from the Application; any reissues, reexaminations, or extensions of any and all Patents; the right to file foreign applications directly in the name of Assignee; and the right to claim priority rights deriving from the Application (collectively, the "Rights"). Assignors warrant that Assignors own the Rights, and that the Rights are unencumbered. Assignors also agree to not sign any writing or do any act conflicting with this assignment, and, without further compensation, sign all documents and do

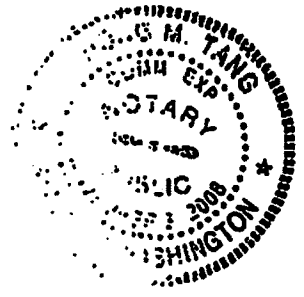
such additional acts as Assignee deems necessary or desirable to: perfect Assignee's enjoyment of the Rights; conduct proceedings regarding the Rights, including any litigation or interference proceedings; or perfect or defend title to the Rights. Assignors request the Commissioner of Patents to issue any Patent of the United States that may be issued on the Invention(s) to Assignee. This Assignment may be executed in counterparts.

Xiaodong Li

Date: April 8 2005

United States of America
State of Washington) ss.:
County of _____)

On this 8 day of April, 2005, before me personally came Xiaodong Li, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



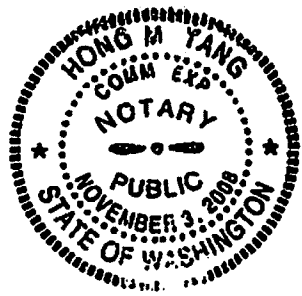
S. M. Tang
Notary Public

[Signature]
Titus Lo

Date: Apr 5 2005

United States of America
State of Washington) ss.:
County of King)

On this 8th day of April, 2005, before me personally came Titus Lo, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



[Signature]
Notary Public

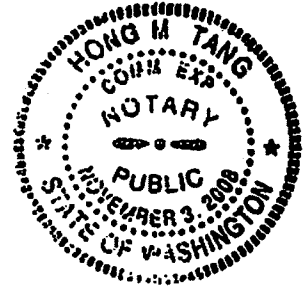
Huang, Haiming

Haiming Huang

Date: April 5, 2005

United States of America)
State of Washington) ss.:
County of King)

On this 5 day of April, 2005, before me personally came Haiming Huang, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Hong M Tang
Notary Public

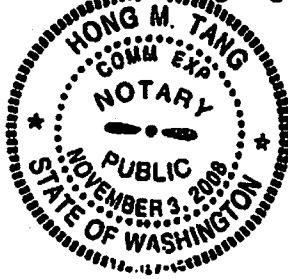
[Handwritten signature]

Kemin Li

Date: Apr 8 2005

United States of America)
State of Washington) ss.:
County of King)

On this 8th day of April, 2005, before me personally came Kemin Li, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



[Handwritten signature]
Notary Public

EXHIBIT B4

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

**UNITED STATES PATENT AND
TRADEMARK OFFICE****Facsimile Transmission**

To: **Name:** STEPHANIE OLSON
 Company: PO BOX 1247
 Fax Number: 12063599219
 Voice Phone:

From: **Name:** ASSIGNMENT SERVICES BRANCH
 Voice Phone: 571-272-3350

37 C.F.R. 1.6 sets forth the types of correspondence that can be communicated to the Patent and Trademark Office via facsimile transmissions. Applicants are advised to use the certificate of facsimile transmission procedures when submitting a reply to a non-final or final Office action by facsimile (37 CFR 1.8(a)).

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| Pg# | Description |
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| 1 | Cover Page |
| 2 | 684.TXT |
| 4 | Document 1, Batch 1455654 |

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PATENT
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TO:STEPHANIE OLSON COMPANY:PO BOX 1247

**UNITED STATES PATENT AND TRADEMARK OFFICE**UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

50089955A

OCTOBER 29, 2008

PTAS

STEPHANIE OLSON
PO BOX 1247
SEA-PAT
SEATTLE, WA 98111-1247UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 10/29/2008

REEL/FRAME: 021757/0963
NUMBER OF PAGES: 9

BRIEF: CORRECTIVE ASSIGNMENT TO CORRECT THE ASSIGNOR: LI, XIADONG PREVIOUSLY RECORDED ON REEL 021690 FRAME 0365. ASSIGNOR(S) HEREBY CONFIRMS THE THIS ASSIGNMENT IS BY XIAODONG LI; TITUS LO; HAIMING HUANG; AND KEMIN LI (THE "ASSIGNORS").

DOCKET NUMBER: 61240.8003 US01

ASSIGNOR:
LI, XIAODONG

DOC DATE: 04/08/2005

ASSIGNOR:
LO, TITUS

DOC DATE: 04/08/2005

ASSIGNOR:
HUANG, HAIMING

DOC DATE: 04/08/2005

ASSIGNOR:
LI, KEMIN

DOC DATE: 04/08/2005

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

021757/0963 PAGE 2

ASSIGNEE:

WALTICAL SOLUTION, INC.
1750 112TH AVE. NE
SUITE D159
BELLEVUE, WASHINGTON 98004

SERIAL NUMBER: 10583239

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

PCT NUMBER: US0503889

TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS SYSTEMS WITH
AUTOMATIC REPEAT REQUEST

TONYA LEE, EXAMINER
ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.110/29/2008
500689955

| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT | | | | | | | | | | | | |
|---|---|---------------|-------------------------|-----------------|--------------------|-------------------|------------|---------------|------------|----------------|------------|--------------|-------|
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the Assignor: LI, Xiaodong previously recorded on Reel 021690 Frame 0385. Assignor(s) hereby confirms the This Assignment is by Xiaodong Li; Titus Lo; Haiming Huang; and Kemlin Li (the "Assignors"). | | | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Xiaodong Li</td> <td>04/08/2005</td> </tr> <tr> <td>Titus Lo</td> <td>04/08/2005</td> </tr> <tr> <td>Haiming Huang</td> <td>04/08/2005</td> </tr> <tr> <td>Kemlin Li</td> <td>04/08/2005</td> </tr> </tbody> </table> | | Name | Execution Date | Xiaodong Li | 04/08/2005 | Titus Lo | 04/08/2005 | Haiming Huang | 04/08/2005 | Kemlin Li | 04/08/2005 | | |
| Name | Execution Date | | | | | | | | | | | | |
| Xiaodong Li | 04/08/2005 | | | | | | | | | | | | |
| Titus Lo | 04/08/2005 | | | | | | | | | | | | |
| Haiming Huang | 04/08/2005 | | | | | | | | | | | | |
| Kemlin Li | 04/08/2005 | | | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>Name:</td> <td>Waltical Solution, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>1750 112th Ave. NE</td> </tr> <tr> <td>Internal Address:</td> <td>Suite D159</td> </tr> <tr> <td>City:</td> <td>Bellevue</td> </tr> <tr> <td>State/Country:</td> <td>WASHINGTON</td> </tr> <tr> <td>Postal Code:</td> <td>98004</td> </tr> </table> | | Name: | Waltical Solution, Inc. | Street Address: | 1750 112th Ave. NE | Internal Address: | Suite D159 | City: | Bellevue | State/Country: | WASHINGTON | Postal Code: | 98004 |
| Name: | Waltical Solution, Inc. | | | | | | | | | | | | |
| Street Address: | 1750 112th Ave. NE | | | | | | | | | | | | |
| Internal Address: | Suite D159 | | | | | | | | | | | | |
| City: | Bellevue | | | | | | | | | | | | |
| State/Country: | WASHINGTON | | | | | | | | | | | | |
| Postal Code: | 98004 | | | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>PCT Number:</td> <td>US0503889</td> </tr> </tbody> </table> | | Property Type | Number | PCT Number: | US0503889 | | | | | | | | |
| Property Type | Number | | | | | | | | | | | | |
| PCT Number: | US0503889 | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | |
| <p>Fax Number: (206)359-9219 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Email: solson@perkinscole.com Correspondent Name: Stephanie Olson Address Line 1: PO Box 1247 Address Line 2: SEA-PAT Address Line 4: Seattle, WASHINGTON 98111-1247</p> | | | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | 81240.8003 US01 | | | | | | | | | | | | |
| NAME OF SUBMITTER: | Stephen C. Bishop | | | | | | | | | | | | |

OP \$40.00 US0503889

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

Total Attachments: 13

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Stylesheet Version v1.1

| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT | | | | | | | | | | | | |
|---|---|---------------|-------------------------|------------------------|--------------------|--------------------------|------------|---------------|------------|-----------------------|------------|---------------------|-------|
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the Assignor: Li, Xiadong previously recorded on Reel 021690 Frame 0365. Assignor(s) hereby confirms the This Assignment is by Xiaodong Li; Titus Lo; Haiming Huang; and Kemin Li (the "Assignors"). | | | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Xiaodong Li</td> <td>04/08/2005</td> </tr> <tr> <td>Titus Lo</td> <td>04/08/2005</td> </tr> <tr> <td>Haiming Huang</td> <td>04/08/2005</td> </tr> <tr> <td>Kemin Li</td> <td>04/08/2005</td> </tr> </tbody> </table> | | Name | Execution Date | Xiaodong Li | 04/08/2005 | Titus Lo | 04/08/2005 | Haiming Huang | 04/08/2005 | Kemin Li | 04/08/2005 | | |
| Name | Execution Date | | | | | | | | | | | | |
| Xiaodong Li | 04/08/2005 | | | | | | | | | | | | |
| Titus Lo | 04/08/2005 | | | | | | | | | | | | |
| Haiming Huang | 04/08/2005 | | | | | | | | | | | | |
| Kemin Li | 04/08/2005 | | | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Waltical Solution, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>1750 112th Ave. NE</td> </tr> <tr> <td>Internal Address:</td> <td>Suite D159</td> </tr> <tr> <td>City:</td> <td>Bellevue</td> </tr> <tr> <td>State/Country:</td> <td>WASHINGTON</td> </tr> <tr> <td>Postal Code:</td> <td>98004</td> </tr> </table> | | Name: | Waltical Solution, Inc. | Street Address: | 1750 112th Ave. NE | Internal Address: | Suite D159 | City: | Bellevue | State/Country: | WASHINGTON | Postal Code: | 98004 |
| Name: | Waltical Solution, Inc. | | | | | | | | | | | | |
| Street Address: | 1750 112th Ave. NE | | | | | | | | | | | | |
| Internal Address: | Suite D159 | | | | | | | | | | | | |
| City: | Bellevue | | | | | | | | | | | | |
| State/Country: | WASHINGTON | | | | | | | | | | | | |
| Postal Code: | 98004 | | | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>PCT Number:</td> <td>US0503889</td> </tr> </tbody> </table> | | Property Type | Number | PCT Number: | US0503889 | | | | | | | | |
| Property Type | Number | | | | | | | | | | | | |
| PCT Number: | US0503889 | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | |
| Fax Number: | (206)359-9219 | | | | | | | | | | | | |

| | |
|--|--------------------------|
| <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Email: solson@perkinscoie.com Correspondent Name: Stephanie Olson Address Line 1: PO Box 1247 Address Line 2: SEA-PAT Address Line 4: Seattle, WASHINGTON 98111-1247</p> | |
| <p>ATTORNEY DOCKET NUMBER:</p> | <p>61240.8003 US01</p> |
| <p>NAME OF SUBMITTER:</p> | <p>Stephen C. Bishop</p> |
| <p>Signature:</p> | <p>/SCB/</p> |
| <p>Date:</p> | <p>10/29/2008</p> |
| <p>Total Attachments: 13 source=2008_10_20NoticeofRecInventorstoWaltical#page1.tif source=2008_10_20NoticeofRecInventorstoWaltical#page2.tif source=2008_10_20NoticeofRecInventorstoWaltical#page3.tif source=2008_10_20NoticeofRecInventorstoWaltical#page4.tif source=2008_10_20NoticeofRecInventorstoWaltical#page5.tif source=2008_10_20NoticeofRecInventorstoWaltical#page6.tif source=2008_10_20NoticeofRecInventorstoWaltical#page7.tif source=ExecutedAssignmentFromInventors#page1.tif source=ExecutedAssignmentFromInventors#page2.tif source=ExecutedAssignmentFromInventors#page3.tif source=ExecutedAssignmentFromInventors#page4.tif source=ExecutedAssignmentFromInventors#page5.tif source=ExecutedAssignmentFromInventors#page6.tif</p> | |
| <p>RECEIPT INFORMATION</p> <p>EPAS ID: PAT704840 Receipt Date: 10/29/2008 Fee Amount: \$40</p> | |

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EXHIBIT C1

42938-800 US

RECORDATION FORM COVER SHEET
PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):

Waltical Solutions, Inc.

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

Name: Neocific, Inc.

Internal Address: _____

Street Address: _____

13312 SE 43rd Street

City: Bellevue

State: Washington

Country: United States of America Zip: 98006

Additional name(s) & address(es) attached: Yes No

3. Nature of conveyance/Execution Date(s):

Execution Date(s): December 14, 2005

Assignment Merger Change of Name

Security Agreement Joint Research Agreement

Government Interest Assignment

Executive Order 9424, Confirmatory License

Other _____

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

| | | |
|------------|------------|------------|
| US05/01939 | US05/04601 | US05/03889 |
| 10/456,654 | 10/360,007 | US05/03518 |
| US05/08169 | US05/14828 | US05/14835 |
| US05/23399 | 60/665,184 | 60/665,205 |
| 60/688,937 | 60/704,141 | 60/721,451 |

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Christopher J. Daley-Watson
PERKINS COIE LLP

Internal Address: Atty. Dkt.: 429388000US

Street Address: P.O. Box 1247

City: Seattle

State: WA Zip: 98111-1247

Phone Number: (206) 359-8000

Fax Number: (206) 359-9000

Email Address: _____

6. Total number of applications and patents involved:

15

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 600.00

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____

Expiration Date _____

b. Deposit Account Number _____

Authorized User Name _____

9. Signature:

December 15, 2005

Signature

Date

Christopher J. Daley-Watson - 34,807

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

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I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV758928963US, in an envelope addressed to: MS Assignment Recordation Services, Director of the US Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Dated: 12/16/05

Signature: Peter Sher (Peter Sher)

ASSIGNMENT

Waltical Solutions, Inc., a corporation organized under and pursuant to the laws of Washington, having its principal place of business at 1750 112th Avenue NE, Suite D 159; Bellevue, Washington 98004 (hereinafter referred to as "Assignor"), is the sole and exclusive owner, by assignment, of the Patent Applications listed in Schedule A; and

Neocific, Inc., a corporation organized under and pursuant to the laws of Delaware, having its principal place of business at 13312 SE 43rd Street, Bellevue, Washington 98006 (hereinafter referred to as "Assignee"), desires to acquire the right, title and interest in, to and under said Patent Applications and the inventions covered thereby;

For valuable consideration, the receipt and sufficiency of which Assignor acknowledges, Assignor hereby sells, assigns, and transfers to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to said applications for all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefore in the United States of America and all other countries on the attached list of *Schedule A*, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on *Schedule A* to said assignee herein, as assignee of the entire interest therein; and the undersigned for itself and its legal representatives, heirs and assigns does hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, continuation-in-part, reissue and other applications for Letters Patent and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said inventions listed on *Schedule A* whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said inventions listed on *Schedule A* in the United States of America and all other countries, the expenses incident to said applications listed on *Schedule A* to be borne and paid by said assignee.

SCHEDULE A

| Application Number (Patent Number) | Filing Date | Inventor | Title | Ctry |
|---|--------------------|--|---|-------------|
| US05/01939 | Jan. 20, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER, MULTI-CELL WIRELESS COMMUNICATION NETWORKS | PCT |
| US05/04601 | Feb. 14, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS SYSTEMS WITH ADAPTIVE TRANSMISSION AND FEEDBACK | PCT |
| US05/03889 | Feb. 7, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS SYSTEMS WITH AUTOMATIC REPEAT REQUEST (ARQ) | PCT |
| 10/456,654 | June 5, 2003 | Titus Lo | ADAPTIVE COMMUNICATIONS SYSTEM AND METHOD | US |
| 10/360,007 | Feb. 7, 2003 | Wen-Ping Ying | PROTECTING INFORMATION TRANSMISSIONS VIA ENCRYPTION, SUCH AS WITH KEY HOPPING TECHNIQUES IN AN 802.11 WIRELESS NETWORK | US |
| US05/03518 | Jan. 27, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR OVERLAYING MULTI-CARRIER AND DIRECT SEQUENCE SPREAD SPECTRUM SIGNALS IN A BROADBAND WIRELESS COMMUNICATION SYSTEM | PCT |
| US05/08169 | March 9, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHOD AND APPARATUS FOR RANDOM ACCESS IN MULTI-CARRIER COMMUNICATION SYSTEMS | PCT |
| US05/14828 | April 29, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS WITH VARIABLE CHANNEL BANDWIDTH | PCT |
| US05/14835 | April 29, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR COMMUNICATION SYSTEM WITH TIME-DIVISION DUPLEXING | PCT |
| US05/23399 | June 29, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang, Jun Meng | METHODS AND APPARATUS FOR POWER CONTROL IN MULTI-CARRIER SYSTEMS | PCT |
| 60/665,184 | Mar. 25, 2005 | Haiming Huang, Xiaodong Li, Titus Lo, Kemin Li | METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION SYSTEM | US |

| | | | | |
|------------|----------------|--|--|----|
| 60/665,205 | Mar. 25, 2005 | Haiming Huang, Xiaodong Li, Titus Lo, Kemin Li | METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA NETWORKS | US |
| 60/688,937 | June 9, 2005 | Haiming Huang, Xiaodong Li, Titus Lo, Kemin Li | METHODS AND APPARATUS FOR A POWER EFFICIENT BROADCASTING AND COMMUNICATION SYSTEM | US |
| 60/704,141 | July 29, 2005 | Titus Lo, Xiaodong Li, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS USING NON-UNIFORM SYMBOL STRUCTURES | US |
| 60/721,451 | Sept. 28, 2005 | Xiaodong Li, Haiming Huang, Titus Lo, Ruifeng Wang | METHOD AND APPARATUS FOR MULTI-CARRIER PACKET COMMUNICATION WITH REDUCED OVERHEAD | US |

Waltical Solutions, Inc.

By: [Signature]

Name: XIADDONG LI

Title: PRESIDENT

Date: December 14, 2005

United States of America)
State of Washington) ss.:
County of King)

On this 14th day of December, 2005, before me personally came Xiaddong Li, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

[Signature]
Notary Public
my comm. exp. December 10, 2008

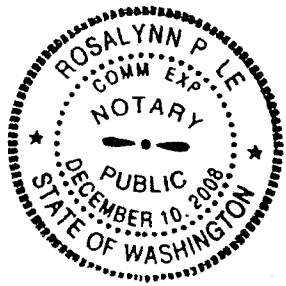


EXHIBIT C2



42938 8004 us1
 ATALU
 8010WD 8005 us3
 8003WD 8015 US
 8011WD 8001 WD
 8006WD 8008WD
 8012WD
 8002 us0

UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
 DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MARCH 25, 2006

PTAS



103141387A

CHRISTOPHER J. DALEY-WATSON
 PERKINS COIE LLP
 P.O. BOX 1247
 SEATTLE, WA 98111-1247

RECEIVED
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APR 07 2006

PERKINS COIE LLP

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 NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 12/15/2005

REEL/FRAME: 017363/0370

NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 429388000US

ASSIGNOR:

WALTICAL SOLUTIONS, INC.

DOC DATE: 12/14/2005

ASSIGNEE:

NEOCIFIC, INC.
 13312 SE 43RD STREET
 BELLEVUE, WASHINGTON 98006

SERIAL NUMBER: 10456654

FILING DATE: 06/05/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: ADAPTIVE COMMUNICATIONS SYSTEM AND METHOD

SERIAL NUMBER: 60688937

FILING DATE: 06/09/2005

PATENT NUMBER:

ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR A POWER EFFICIENT BROADCASTING AND COMMUNICATION SYSTEM

SERIAL NUMBER: 10360007 FILING DATE: 02/07/2003
PATENT NUMBER: ISSUE DATE:
TITLE: PROTECTING INFORMATION TRANSMISSIONS VIA ENCRYPTION, SUCH AS WITH
KEY HOPPING TECHNIQUES IN AN 802.11 WIRELESS NETWORK

SERIAL NUMBER: 60665184 FILING DATE: 03/25/2005
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION
SYSTEM

SERIAL NUMBER: 60704141 FILING DATE: 07/29/2005
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS USING NON-
UNIFORM SYMBOL STRUCTURES

SERIAL NUMBER: 60665205 FILING DATE: 03/25/2005
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA
NETWORK

SERIAL NUMBER: 60721451 FILING DATE: 09/28/2005
PATENT NUMBER: ISSUE DATE:
TITLE: METHOD AND APPARATUS FOR MULTI-CARRIER PACKET COMMUNICATION WITH
REDUCED OVERHEAD

SERIAL NUMBER: FILING DATE: 01/20/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0501939
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER, MULTI-CELL WIRELESS
COMMUNICATION NETWORKS

SERIAL NUMBER: FILING DATE: 03/09/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0508169
TITLE: METHODS AND APPARATUS FOR RANDOM ACCESS IN MULTI-CARRIER
COMMUNICATION SYSTEMS

SERIAL NUMBER: FILING DATE: 06/29/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0523399
TITLE: METHODS AND APPARATUS FOR POWER CONTROL IN MULTI-CARRIER WIRELESS
SYSTEMS

SERIAL NUMBER: FILING DATE: 02/14/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0504601
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATION SYSTEMS WITH
ADAPTIVE TRANSMISSION AND FEEDBACK

SERIAL NUMBER: FILING DATE: 04/29/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0514828
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS WITH
VARIABLE CHANNEL BANDWIDTH

017363/0370 PAGE 3

SERIAL NUMBER: FILING DATE: 02/07/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0503889
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATION SYSTEMS WITH
AUTOMATIC REPEAT REQUEST (ARQ)

SERIAL NUMBER: FILING DATE: 01/27/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0503518
TITLE: METHODS AND APPARATUS FOR OVERLAYING MULTI-CARRIER AND DIRECT
SEQUENCE SPREAD SPECTRUM SIGNAL IN A BROADBAND WIRELESS
COMMUNICATION SYSTEM

SERIAL NUMBER: FILING DATE: 04/29/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0514835
TITLE: METHODS AND APPARATUS FOR COMMUNICATION WITH TIME-DIVISION DUPLEXING

SHAREILL COLES, EXAMINER
ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

12-51-21

12-21-2005

Form PTO-1595 (Rev. 07/05)
OMB No. 0651-0027 (exp. 6/06)



U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

2 SHEET

103141387

Y

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):

Waltical Solutions, Inc.

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

Name: Neocific, Inc.

Internal Address:

Street Address:

13312 SE 43rd Street

City: Bellevue

State: Washington

Country: United States of America Zip: 98006

Additional name(s) & address(es) attached: Yes No

3. Nature of conveyance/Execution Date(s):

Execution Date(s): December 14, 2005

Assignment Merger Change of Name

Security Agreement Joint Research Agreement

Government Interest Assignment

Executive Order 9424, Confirmatory License

Other

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

| | | |
|------------|------------|------------|
| US05/01939 | US05/04601 | US05/03889 |
| 10/456,654 | 10/360,007 | US05/03518 |
| US05/08169 | US05/14828 | US05/14835 |
| US05/23399 | 60/665,184 | 60/665,205 |
| 60/688,937 | 60/704,141 | 60/721,451 |

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Christopher J. Daley-Watson
PERKINS COIE LLP

Internal Address: Atty. Dkt.: 429388000US

Street Address: P.O. Box 1247

City: Seattle

State: WA Zip: 98111-1247

Phone Number: (206) 359-8000

Fax Number: (206) 359-9000

Email Address:

6. Total number of applications and patents involved:

15

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 600.00

Authorized to be charged by credit card

Authorized to be charged to deposit account

Enclosed

None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number _____
Authorized User Name _____

9. Signature:

Signature

December 15, 2005

Date

Christopher J. Daley-Watson - 34,807
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 5

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV758928963US, in an envelope addressed to: MS Assignment Recordation Services, Director of the US Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Dated: 12/16/05 Signature: Peter Sher (Peter Sher)

12/20/2005 ECDDPER 00000048 PCT/US05/01939
01 FC:8021 600.00 OP

EXHIBIT C3

04/08/2005

✓

ASSIGNMENT BY INVENTORS

This Assignment is by Xiaodong Li; Titus Lo; Haiming Huang; and Kemin Li (the "Assignors"), residing at 9919 129th PL NE, Kirkland, Washington 98033; 10501 181st Ave. NE, Redmond, Washington 98052; 605 141st CT SE #D203, Bellevue, Washington 98007; and 4228 144th LN SE, Bellevue, 98006, respectively. The Assignors have invented one or more certain inventions (the "Invention(s)") described in a Patent application for Letters Patent of the United States entitled METHODS AND APPARATUS FOR OVERLAYING MULTI-CARRIER AND DIRECT-SEQUENCE SPREAD SPECTRUM SIGNALS IN A BROADBAND WIRELESS COMMUNICATION SYSTEM (the "Application"), executed concurrently herewith and naming the Assignors as inventors. The Assignors authorize the Assignee, identified below, or its representatives to insert the application number of the Application US 05/038,181 when known.

Waltical Solution, Inc. (formerly Walbell Technologies, Inc.), a corporation of Washington having its principal place of business at Suite D159, 1750 112th Ave. NE, Bellevue, Washington 98004 ("Assignee"), desires to acquire the entire right, title and interest in and to the Invention(s) and the Application, and in and to any patents (collectively, "Patents") that may be granted for the Invention(s) in the United States or in any foreign countries.

For valuable consideration, the receipt and sufficiency of which Assignors acknowledge, Assignors hereby sell, assign, and transfer to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to: the Invention(s), the Application, and any Patents; any divisions, continuations, and continuations-in-part of the Application and any other application claiming priority rights from the Application; any reissues, reexaminations, or extensions of any and all Patents; the right to file foreign applications directly in the name of Assignee; and the right to claim priority rights deriving from the Application (collectively, the "Rights"). Assignors warrant that Assignors own the Rights, and that the Rights are

unencumbered. Assignors also agree to not sign any writing or do any act conflicting with this assignment, and, without further compensation, sign all documents and do such additional acts as Assignee deems necessary or desirable to: perfect Assignee's enjoyment of the Rights; conduct proceedings regarding the Rights, including any litigation or interference proceedings; or perfect or defend title to the Rights. Assignors request the Commissioner of Patents to issue any Patent of the United States that may be issued on the Invention(s) to Assignee. This Assignment may be executed in counterparts.

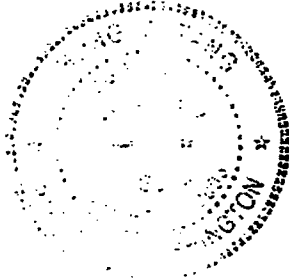
Xiaodong Li

Xiaodong Li

Date: 4/08/05

United States of America)
State of Washington) ss.:
County of King)

On this 8th day of April, 2005, before me personally came Xiaodong Li, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Henry Wang
Notary Public

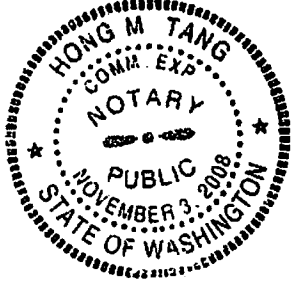
[Handwritten signature]

Titus Lo

Date: Apr. 8, 2005

United States of America
State of Washington) ss.:
County of King)

On this 8th day of April, 2005, before me personally came Titus Lo, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



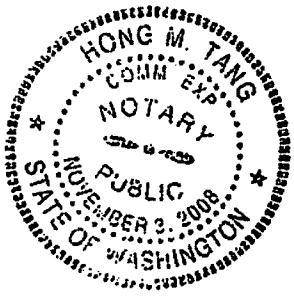
[Handwritten signature]
Notary Public

[Signature]
Kemin Li

Date: Apr. 8, 2005

United States of America)
State of Washington) ss.:
County of King)

On this 8th day of April, 2005, before me personally came Kemin Li, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



[Signature]
Notary Public

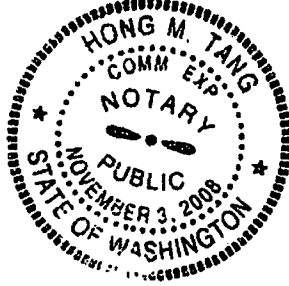
Haiming Huang

Haiming Huang

Date: April 8, 2005

United States of America)
State of Washington) ss.:
County of King)

On this 8th day of April, 2005, before me personally came Haiming Huang, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Hong M. Tang
Notary Public

EXHIBIT C4

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

**UNITED STATES PATENT AND TRADEMARK OFFICE**UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

501009990A

NOVEMBER 09, 2009

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STEPHANIE OLSON
PO BOX 1247
SEA-PAT
SEATTLE, WA 98111-1247UNITED STATES PATENT AND TRADEMARK OFFICE
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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 11/09/2009

REEL/FRAME: 023489/0816

NUMBER OF PAGES: 8

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: 61240.8006 US01

ASSIGNOR:

LI, XIAODONG

DOC DATE: 04/08/2005

ASSIGNOR:

LO, TITUS

DOC DATE: 04/08/2005

ASSIGNOR:

HUANG, HAIMING

DOC DATE: 04/08/2005

ASSIGNOR:

LI, KEMIN

DOC DATE: 04/08/2005

ASSIGNEE:

WALTICAL SOLUTION, INC.
1750 112TH AVE. NE
SUITE D159
BELLEVUE, WASHINGTON 98004

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

023489/0816 PAGE 2

SERIAL NUMBER: 10583229

FILING DATE: 08/27/2008

PATENT NUMBER:

ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR OVERLAYING MULTI-CARRIER AND DIRECT
SEQUENCE SPREAD SPECTRUM SIGNALS IN A BROADBAND WIRELESS
COMMUNICATION SYSTEM

ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

**11/09/2009
 501009990**

| | |
|------------------------------|-----------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------|----------------|
| Xiaodong LI | 04/08/2005 |
| Titus Lo | 04/08/2005 |
| Haiming Huang | 04/08/2005 |
| Kemln LI | 04/08/2005 |

RECEIVING PARTY DATA

| | |
|--------------------------|------------------------|
| Name: | Watical Solution, Inc. |
| Street Address: | 1750 112th Ave. NE |
| Internal Address: | Suite D159 |
| City: | Bellevue |
| State/Country: | WASHINGTON |
| Postal Code: | 98004 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 10583229 |

CORRESPONDENCE DATA

Fax Number: (206)359-9219
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
Email: solson@perkinscoie.com
Correspondent Name: Stephanie Olson
Address Line 1: PO Box 1247
Address Line 2: SEA-PAT
Address Line 4: Seattle, WASHINGTON 98111-1247

| | |
|--------------------------------|--------------------------|
| ATTORNEY DOCKET NUMBER: | 61240.8006 US01 |
| NAME OF SUBMITTER: | Stephen C. Bishop |

OP \$40.00 10583229

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

Total Attachments: 6

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source=81240.8006 US01 Exec Assignment Inventors to Waitcal#page2.tif
source=81240.8006 US01 Exec Assignment Inventors to Waitcal#page3.tif
source=81240.8006 US01 Exec Assignment Inventors to Waitcal#page4.tif
source=81240.8006 US01 Exec Assignment Inventors to Waitcal#page5.tif
source=81240.8006 US01 Exec Assignment Inventors to Waitcal#page6.tif

EXHIBIT D1

42938-800 US

RECORDATION FORM COVER SHEET
PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

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Waltical Solutions, Inc.

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

Name: Neocific, Inc.

Internal Address: _____

Street Address: _____

13312 SE 43rd Street

City: Bellevue

State: Washington

Country: United States of America Zip: 98006

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance/Execution Date(s):

Execution Date(s): December 14, 2005

Assignment Merger Change of Name

Security Agreement Joint Research Agreement

Government Interest Assignment

Executive Order 9424, Confirmatory License

Other _____

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

| | | |
|------------|------------|------------|
| US05/01939 | US05/04601 | US05/03889 |
| 10/456,654 | 10/360,007 | US05/03518 |
| US05/08169 | US05/14828 | US05/14835 |
| US05/23399 | 60/665,184 | 60/665,205 |
| 60/688,937 | 60/704,141 | 60/721,451 |

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Christopher J. Daley-Watson
PERKINS COIE LLP

Internal Address: Atty. Dkt.: 429388000US

Street Address: P.O. Box 1247

City: Seattle

State: WA Zip: 98111-1247

Phone Number: (206) 359-8000

Fax Number: (206) 359-9000

Email Address: _____

6. Total number of applications and patents involved: 15

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 600.00

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____

Expiration Date _____

b. Deposit Account Number _____

Authorized User Name _____

9. Signature:

December 15, 2005

Signature

Date

Christopher J. Daley-Watson - 34,807

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 5

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV758928963US, in an envelope addressed to: MS Assignment Recordation Services, Director of the US Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Date: 12/16/05

Signature: Peter Sher (Peter Sher)

ASSIGNMENT

Waltical Solutions, Inc., a corporation organized under and pursuant to the laws of Washington, having its principal place of business at 1750 112th Avenue NE, Suite D 159; Bellevue, Washington 98004 (hereinafter referred to as "Assignor"), is the sole and exclusive owner, by assignment, of the Patent Applications listed in Schedule A; and

Neocific, Inc., a corporation organized under and pursuant to the laws of Delaware, having its principal place of business at 13312 SE 43rd Street, Bellevue, Washington 98006 (hereinafter referred to as "Assignee"), desires to acquire the right, title and interest in, to and under said Patent Applications and the inventions covered thereby;

For valuable consideration, the receipt and sufficiency of which Assignor acknowledges, Assignor hereby sells, assigns, and transfers to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to said applications for all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefore in the United States of America and all other countries on the attached list of *Schedule A*, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on *Schedule A* to said assignee herein, as assignee of the entire interest therein; and the undersigned for itself and its legal representatives, heirs and assigns does hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, continuation-in-part, reissue and other applications for Letters Patent and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said inventions listed on *Schedule A* whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said inventions listed on *Schedule A* in the United States of America and all other countries, the expenses incident to said applications listed on *Schedule A* to be borne and paid by said assignee.

SCHEDULE A

| Application Number (Patent Number) | Filing Date | Inventor | Title | Ctry |
|---|--------------------|--|---|-------------|
| US05/01939 | Jan. 20, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER, MULTI-CELL WIRELESS COMMUNICATION NETWORKS | PCT |
| US05/04601 | Feb. 14, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS SYSTEMS WITH ADAPTIVE TRANSMISSION AND FEEDBACK | PCT |
| US05/03889 | Feb. 7, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS SYSTEMS WITH AUTOMATIC REPEAT REQUEST (ARQ) | PCT |
| 10/456,654 | June 5, 2003 | Titus Lo | ADAPTIVE COMMUNICATIONS SYSTEM AND METHOD | US |
| 10/360,007 | Feb. 7, 2003 | Wen-Ping Ying | PROTECTING INFORMATION TRANSMISSIONS VIA ENCRYPTION, SUCH AS WITH KEY HOPPING TECHNIQUES IN AN 802.11 WIRELESS NETWORK | US |
| US05/03518 | Jan. 27, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR OVERLAYING MULTI-CARRIER AND DIRECT SEQUENCE SPREAD SPECTRUM SIGNALS IN A BROADBAND WIRELESS COMMUNICATION SYSTEM | PCT |
| US05/08169 | March 9, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHOD AND APPARATUS FOR RANDOM ACCESS IN MULTI-CARRIER COMMUNICATION SYSTEMS | PCT |
| US05/14828 | April 29, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS WITH VARIABLE CHANNEL BANDWIDTH | PCT |
| US05/14835 | April 29, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR COMMUNICATION SYSTEM WITH TIME-DIVISION DUPLEXING | PCT |
| US05/23399 | June 29, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang, Jun Meng | METHODS AND APPARATUS FOR POWER CONTROL IN MULTI-CARRIER SYSTEMS | PCT |
| 60/665,184 | Mar. 25, 2005 | Haiming Huang, Xiaodong Li, Titus Lo, Kemin Li | METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION SYSTEM | US |

| | | | | |
|------------|----------------|--|--|----|
| 60/665,205 | Mar. 25, 2005 | Haiming Huang, Xiaodong Li, Titus Lo, Kemin Li | METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA NETWORKS | US |
| 60/688,937 | June 9, 2005 | Haiming Huang, Xiaodong Li, Titus Lo, Kemin Li | METHODS AND APPARATUS FOR A POWER EFFICIENT BROADCASTING AND COMMUNICATION SYSTEM | US |
| 60/704,141 | July 29, 2005 | Titus Lo, Xiaodong Li, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS USING NON-UNIFORM SYMBOL STRUCTURES | US |
| 60/721,451 | Sept. 28, 2005 | Xiaodong Li, Haiming Huang, Titus Lo, Ruifeng Wang | METHOD AND APPARATUS FOR MULTI-CARRIER PACKET COMMUNICATION WITH REDUCED OVERHEAD | US |

Waltical Solutions, Inc.

By: [Signature]

Name: XIADDONG LI

Title: PRESIDENT

Date: December 14, 2005

United States of America)
State of Washington) ss.:
County of King)

On this 14th day of December, 2005, before me personally came Xiaddong Li, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

[Signature]
Notary Public

my comm. exp. December 10, 2008

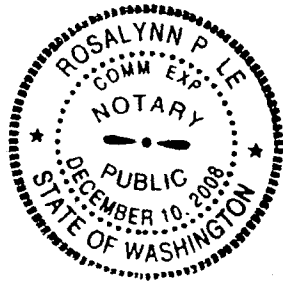


EXHIBIT D2



42938 8004 us1
 8010WD ATA 1L4
 8003WD 8005 us3
 8011WD 8015 us
 8006WD 8001 WD
 8008WD
 8012WD
 8002 WD

UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
 DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MARCH 25, 2006

PTAS



103141387A

CHRISTOPHER J. DALEY-WATSON
 PERKINS COIE LLP
 P.O. BOX 1247
 SEATTLE, WA 98111-1247

RECEIVED
 PATENT DOCKETING

APR 07 2006

PERKINS COIE LLP

DOCKETED

UNITED STATES PATENT AND TRADEMARK OFFICE
 NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 12/15/2005

REEL/FRAME: 017363/0370

NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 429388000US

ASSIGNOR:

WALTICAL SOLUTIONS, INC.

DOC DATE: 12/14/2005

ASSIGNEE:

NEOCIFIC, INC.
 13312 SE 43RD STREET
 BELLEVUE, WASHINGTON 98006

SERIAL NUMBER: 10456654

FILING DATE: 06/05/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: ADAPTIVE COMMUNICATIONS SYSTEM AND METHOD

SERIAL NUMBER: 60688937

FILING DATE: 06/09/2005

PATENT NUMBER:

ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR A POWER EFFICIENT BROADCASTING AND COMMUNICATION SYSTEM

SERIAL NUMBER: 10360007 FILING DATE: 02/07/2003
PATENT NUMBER: ISSUE DATE:
TITLE: PROTECTING INFORMATION TRANSMISSIONS VIA ENCRYPTION, SUCH AS WITH
KEY HOPPING TECHNIQUES IN AN 802.11 WIRELESS NETWORK

SERIAL NUMBER: 60665184 FILING DATE: 03/25/2005
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION
SYSTEM

SERIAL NUMBER: 60704141 FILING DATE: 07/29/2005
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS USING NON-
UNIFORM SYMBOL STRUCTURES

SERIAL NUMBER: 60665205 FILING DATE: 03/25/2005
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA
NETWORK

SERIAL NUMBER: 60721451 FILING DATE: 09/28/2005
PATENT NUMBER: ISSUE DATE:
TITLE: METHOD AND APPARATUS FOR MULTI-CARRIER PACKET COMMUNICATION WITH
REDUCED OVERHEAD

SERIAL NUMBER: FILING DATE: 01/20/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0501939
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER, MULTI-CELL WIRELESS
COMMUNICATION NETWORKS

SERIAL NUMBER: FILING DATE: 03/09/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0508169
TITLE: METHODS AND APPARATUS FOR RANDOM ACCESS IN MULTI-CARRIER
COMMUNICATION SYSTEMS

SERIAL NUMBER: FILING DATE: 06/29/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0523399
TITLE: METHODS AND APPARATUS FOR POWER CONTROL IN MULTI-CARRIER WIRELESS
SYSTEMS

SERIAL NUMBER: FILING DATE: 02/14/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0504601
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATION SYSTEMS WITH
ADAPTIVE TRANSMISSION AND FEEDBACK

SERIAL NUMBER: FILING DATE: 04/29/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0514828
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS WITH
VARIABLE CHANNEL BANDWIDTH

017363/0370 PAGE 3

SERIAL NUMBER: FILING DATE: 02/07/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0503889
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATION SYSTEMS WITH
AUTOMATIC REPEAT REQUEST (ARQ)

SERIAL NUMBER: FILING DATE: 01/27/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0503518
TITLE: METHODS AND APPARATUS FOR OVERLAYING MULTI-CARRIER AND DIRECT
SEQUENCE SPREAD SPECTRUM SIGNAL IN A BROADBAND WIRELESS
COMMUNICATION SYSTEM

SERIAL NUMBER: FILING DATE: 04/29/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0514835
TITLE: METHODS AND APPARATUS FOR COMMUNICATION WITH TIME-DIVISION DUPLEXING

SHAREILL COLES, EXAMINER
ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

12-21-2005

Form PTO-1595 (Rev. 07/05)
OMB No. 0651-0027 (exp. 6/06)

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office



2 SHEET

103141387

Y

12-51-21

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):
Waltical Solutions, Inc.
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
Name: Neocific, Inc.
Internal Address:
Street Address:

3. Nature of conveyance/Execution Date(s):
Execution Date(s): December 14, 2005
 Assignment Merger Change of Name
 Security Agreement Joint Research Agreement
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other

13312 SE 43rd Street
City: Bellevue
State: Washington
Country: United States of America Zip: 98006
Additional name(s) & address(es) attached: Yes No

4. Application or patent number(s):
A. Patent Application No.(s)
US05/01939 US05/04601 US05/03889
10/456,654 10/360,007 US05/03518
US05/08169 US05/14828 US05/14835
US05/23399 60/665,184 60/665,205
60/688,937 60/704,141 60/721,451
Additional numbers attached? Yes No

This document is being filed together with a new application.
B. Patent No.(s)
 Yes No

5. Name and address to whom correspondence concerning document should be mailed:
Name: Christopher J. Daley-Watson
PERKINS COIE LLP
Internal Address: Atty. Dkt.: 429388000US
Street Address: P.O. Box 1247
City: Seattle
State: WA Zip: 98111-1247
Phone Number: (206) 359-8000
Fax Number: (206) 359-9000
Email Address:

6. Total number of applications and patents involved: 15
7. Total fee (37 CFR 1.21(h) & 3.41) \$ 600.00
 Authorized to be charged by credit card
 Authorized to be charged to deposit account
 Enclosed
 None required (government interest not affecting title)

9. Signature:

Signature
December 15, 2005
Date
Christopher J. Daley-Watson - 34,807
Name of Person Signing

8. Payment Information
a. Credit Card Last 4 Numbers
Expiration Date
b. Deposit Account Number
Authorized User Name

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV758928963US, in an envelope addressed to: MS Assignment Recordation Services, Director of the US Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.
Dated: 12/16/05 Signature: (Peter Sher)
Total number of pages including cover sheet, attachments, and documents: 5

12/20/2005 ECDOOPER 00000048 PCT/US05/01939
01 FC:8021 600.00 0P

EXHIBIT D3

ASSIGNMENT BY INVENTORS

This Assignment is by Xiaodong Li; Titus Lo; Haiming Huang; and Kemin Li (the "Assignors"), residing at 9919 129th PL NE, Kirkland, Washington 98033; 10501 181st Ave. NE, Redmond, Washington 98052; 605 141st CT SE #D203, Bellevue, Washington 98007; and 4228 144th LN SE, Bellevue, 98006, respectively. The Assignors have invented one or more certain inventions (the "Invention(s)") described in a Patent application for Letters Patent of the United States entitled METHODS AND APPARATUS FOR RANDOM ACCESS IN MULTI-CARRIER COMMUNICATION SYSTEMS (the "Application"), executed concurrently herewith and naming the Assignors as inventors. The Assignors authorize the Assignee, identified below, or its representatives to insert the application number of the Application US05/08169 when known.

Waltical Solution, Inc. (formerly Walbell Technologies, Inc.), a corporation of Washington having its principal place of business at Suite D159, 1750 112th Ave. NE, Bellevue, Washington 98004 ("Assignee"), desires to acquire the entire right, title and interest in and to the Invention(s) and the Application, and in and to any patents (collectively, "Patents") that may be granted for the Invention(s) in the United States or in any foreign countries.

For valuable consideration, the receipt and sufficiency of which Assignors acknowledge, Assignors hereby sell, assign, and transfer to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to: the Invention(s), the Application, and any Patents; any divisions, continuations, and continuations-in-part of the Application and any other application claiming priority rights from the Application; any reissues, reexaminations, or extensions of any and all Patents; the right to file foreign applications directly in the name of Assignee; and the right to claim priority rights deriving from the Application (collectively, the "Rights"). Assignors warrant that Assignors own the Rights, and that the Rights are unencumbered. Assignors also agree to not sign any writing or do any act conflicting

with this assignment, and, without further compensation, sign all documents and do such additional acts as Assignee deems necessary or desirable to: perfect Assignee's enjoyment of the Rights; conduct proceedings regarding the Rights, including any litigation or interference proceedings; or perfect or defend title to the Rights. Assignors request the Commissioner of Patents to issue any Patent of the United States that may be issued on the Invention(s) to Assignee. This Assignment may be executed in counterparts.

Xiaodong Li

Xiaodong Li

Date: 4/8/05

United States of America)
State of Washington) ss.:
County of King)

On this 8th day of April, 2005, before me personally came Xiaodong Li, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



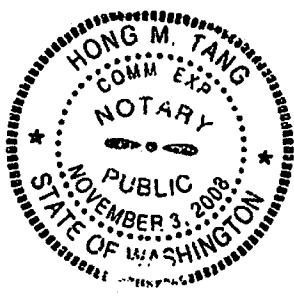
Henry Tang
Notary Public

Titus Lo

Date: 7:1 8, 2005

United States of America)
State of Washington) ss.:
County of King)

On this 8th day of April, 2005, before me personally came Titus Lo, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



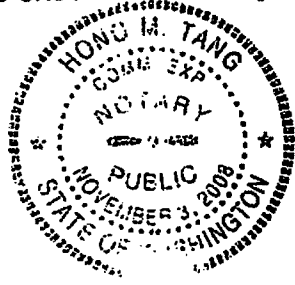
Hong M. Tang
Notary Public

[Signature]
Kemin Li

Date: Apr 8 2005

United States of America)
State of Washington) ss.:
County of King)

On this 8th day of April, 2005, before me personally came Kemin Li, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



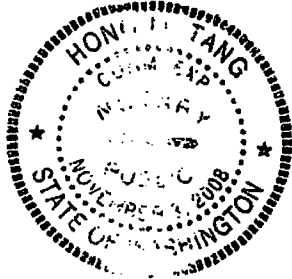
[Signature]
Notary Public

Haiming Huang
Haiming Huang

Date: April 8, 2005

United States of America)
State of Washington) ss.:
County of King)

On this 8th day of April, 2005, before me personally came Haiming Huang, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Hong Tang
Notary Public

EXHIBIT D4

TO:STEPHANIE OLSON COMPANY:PO BOX 1247



UNITED STATES PATENT AND TRADEMARK OFFICE

 UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
 DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE


NOVEMBER 09, 2009

501010435

PTAS

 STEPHANIE OLSON
 PO BOX 1247
 SEA-PAT
 SEATTLE, WA 98111-1247

 UNITED STATES PATENT AND TRADEMARK OFFICE
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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 11/09/2009

 REEL/FRAME: 023491/0649
 NUMBER OF PAGES: 8

 BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
 DOCKET NUMBER: 61240.8008 US01

 ASSIGNOR:
 LI, XIAODONG

DOC DATE: 04/08/2005

 ASSIGNOR:
 LO, TITUS

DOC DATE: 04/08/2005

 ASSIGNOR:
 HUANG, HAIMING

DOC DATE: 04/08/2005

 ASSIGNOR:
 LI, KEMIN

DOC DATE: 04/08/2005

 ASSIGNEE:
 WALTICAL SOLUTION, INC.
 1750 112TH AVE. NE
 SUITE D159
 BELLEVUE, WASHINGTON 98004

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

023491/0649 PAGE 2

SERIAL NUMBER: 10583158

FILING DATE: 08/27/2008

PATENT NUMBER:

ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR RANDOM ACCESS IN MULTI-CARRIER
COMMUNICATION SYSTEMS

ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.111/09/2009
501010435

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | |
|--|--------------------------------|---------------|----------------|---------------------|------------|----------|------------|---------------|------------|----------|------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Xiaodong LI</td> <td>04/08/2005</td> </tr> <tr> <td>Titus Lo</td> <td>04/08/2005</td> </tr> <tr> <td>Haiming Huang</td> <td>04/08/2005</td> </tr> <tr> <td>Kamin LI</td> <td>04/08/2005</td> </tr> </tbody> </table> | | Name | Execution Date | Xiaodong LI | 04/08/2005 | Titus Lo | 04/08/2005 | Haiming Huang | 04/08/2005 | Kamin LI | 04/08/2005 |
| Name | Execution Date | | | | | | | | | | |
| Xiaodong LI | 04/08/2005 | | | | | | | | | | |
| Titus Lo | 04/08/2005 | | | | | | | | | | |
| Haiming Huang | 04/08/2005 | | | | | | | | | | |
| Kamin LI | 04/08/2005 | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | |
| Name: | Waitcal Solution, Inc. | | | | | | | | | | |
| Street Address: | 1750 112th Ave. NE | | | | | | | | | | |
| Internal Address: | Suite D159 | | | | | | | | | | |
| City: | Bellevue | | | | | | | | | | |
| State/Country: | WASHINGTON | | | | | | | | | | |
| Postal Code: | 98004 | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>10583158</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 10583158 | | | | | | |
| Property Type | Number | | | | | | | | | | |
| Application Number: | 10583158 | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | |
| Fax Number: | (206)359-9219 | | | | | | | | | | |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> | | | | | | | | | | | |
| Email: | solson@perkinscoie.com | | | | | | | | | | |
| Correspondent Name: | Stephanie Olson | | | | | | | | | | |
| Address Line 1: | PO Box 1247 | | | | | | | | | | |
| Address Line 2: | SEA-PAT | | | | | | | | | | |
| Address Line 4: | Seattle, WASHINGTON 98111-1247 | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | 61240.8008 US01 | | | | | | | | | | |
| NAME OF SUBMITTER: | Stephen C. Bishop | | | | | | | | | | |

OP \$40.00 10583158

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

Total Attachments: 6

source=61240.8008 US01 Exec Assignment Inventors to Waitcal#page1.tif

source=61240.8008 US01 Exec Assignment Inventors to Waitcal#page2.tif

source=61240.8008 US01 Exec Assignment Inventors to Waitcal#page3.tif

source=61240.8008 US01 Exec Assignment Inventors to Waitcal#page4.tif

source=61240.8008 US01 Exec Assignment Inventors to Waitcal#page5.tif

source=61240.8008 US01 Exec Assignment Inventors to Waitcal#page6.tif

EXHIBIT E1

42938-800 US

RECORDATION FORM COVER SHEET
PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):

Waltical Solutions, Inc.

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

Name: Neocific, Inc.

Internal Address: _____

Street Address: _____

13312 SE 43rd Street

City: Bellevue

State: Washington

Country: United States of America Zip: 98006

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance/Execution Date(s):

Execution Date(s): December 14, 2005

Assignment Merger Change of Name

Security Agreement Joint Research Agreement

Government Interest Assignment

Executive Order 9424, Confirmatory License

Other _____

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

| | | |
|------------|------------|------------|
| US05/01939 | US05/04601 | US05/03889 |
| 10/456,654 | 10/360,007 | US05/03518 |
| US05/08169 | US05/14828 | US05/14835 |
| US05/23399 | 60/665,184 | 60/665,205 |
| 60/688,937 | 60/704,141 | 60/721,451 |

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Christopher J. Daley-Watson
PERKINS COIE LLP

Internal Address: Atty. Dkt.: 429388000US

Street Address: P.O. Box 1247

City: Seattle

State: WA Zip: 98111-1247

Phone Number: (206) 359-8000

Fax Number: (206) 359-9000

Email Address: _____

6. Total number of applications and patents involved:

15

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 600.00

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____

Expiration Date _____

b. Deposit Account Number _____

Authorized User Name _____

9. Signature:

December 15, 2005

Signature

Date

Christopher J. Daley-Watson - 34,807

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

5

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV758928963US, in an envelope addressed to: MS Assignment Recordation Services, Director of the US Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: 12/15/05

Signature: Peter Sher (Peter Sher)

ASSIGNMENT

Waltical Solutions, Inc., a corporation organized under and pursuant to the laws of Washington, having its principal place of business at 1750 112th Avenue NE, Suite D 159; Bellevue, Washington 98004 (hereinafter referred to as "Assignor"), is the sole and exclusive owner, by assignment, of the Patent Applications listed in Schedule A; and

Neocific, Inc., a corporation organized under and pursuant to the laws of Delaware, having its principal place of business at 13312 SE 43rd Street, Bellevue, Washington 98006 (hereinafter referred to as "Assignee"), desires to acquire the right, title and interest in, to and under said Patent Applications and the inventions covered thereby;

For valuable consideration, the receipt and sufficiency of which Assignor acknowledges, Assignor hereby sells, assigns, and transfers to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to said applications for all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefore in the United States of America and all other countries on the attached list of *Schedule A*, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on *Schedule A* to said assignee herein, as assignee of the entire interest therein; and the undersigned for itself and its legal representatives, heirs and assigns does hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, continuation-in-part, reissue and other applications for Letters Patent and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said inventions listed on *Schedule A* whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said inventions listed on *Schedule A* in the United States of America and all other countries, the expenses incident to said applications listed on *Schedule A* to be borne and paid by said assignee.

SCHEDULE A

| Application Number (Patent Number) | Filing Date | Inventor | Title | Ctry |
|---|--------------------|--|---|-------------|
| US05/01939 | Jan. 20, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER, MULTI-CELL WIRELESS COMMUNICATION NETWORKS | PCT |
| US05/04601 | Feb. 14, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS SYSTEMS WITH ADAPTIVE TRANSMISSION AND FEEDBACK | PCT |
| US05/03889 | Feb. 7, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS SYSTEMS WITH AUTOMATIC REPEAT REQUEST (ARQ) | PCT |
| 10/456,654 | June 5, 2003 | Titus Lo | ADAPTIVE COMMUNICATIONS SYSTEM AND METHOD | US |
| 10/360,007 | Feb. 7, 2003 | Wen-Ping Ying | PROTECTING INFORMATION TRANSMISSIONS VIA ENCRYPTION, SUCH AS WITH KEY HOPPING TECHNIQUES IN AN 802.11 WIRELESS NETWORK | US |
| US05/03518 | Jan. 27, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR OVERLAYING MULTI-CARRIER AND DIRECT SEQUENCE SPREAD SPECTRUM SIGNALS IN A BROADBAND WIRELESS COMMUNICATION SYSTEM | PCT |
| US05/08169 | March 9, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHOD AND APPARATUS FOR RANDOM ACCESS IN MULTI-CARRIER COMMUNICATION SYSTEMS | PCT |
| US05/14828 | April 29, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS WITH VARIABLE CHANNEL BANDWIDTH | PCT |
| US05/14835 | April 29, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR COMMUNICATION SYSTEM WITH TIME-DIVISION DUPLEXING | PCT |
| US05/23399 | June 29, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang, Jun Meng | METHODS AND APPARATUS FOR POWER CONTROL IN MULTI-CARRIER SYSTEMS | PCT |
| 60/665,184 | Mar. 25, 2005 | Haiming Huang, Xiaodong Li, Titus Lo, Kemin Li | METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION SYSTEM | US |

| | | | | |
|------------|----------------|--|--|----|
| 60/665,205 | Mar. 25, 2005 | Haiming Huang, Xiaodong Li, Titus Lo, Kemin Li | METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA NETWORKS | US |
| 60/688,937 | June 9, 2005 | Haiming Huang, Xiaodong Li, Titus Lo, Kemin Li | METHODS AND APPARATUS FOR A POWER EFFICIENT BROADCASTING AND COMMUNICATION SYSTEM | US |
| 60/704,141 | July 29, 2005 | Titus Lo, Xiaodong Li, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS USING NON-UNIFORM SYMBOL STRUCTURES | US |
| 60/721,451 | Sept. 28, 2005 | Xiaodong Li, Haiming Huang, Titus Lo, Ruifeng Wang | METHOD AND APPARATUS FOR MULTI-CARRIER PACKET COMMUNICATION WITH REDUCED OVERHEAD | US |

Waltical Solutions, Inc.

By: [Signature]

Name: XIADDONG LI

Title: PRESIDENT

Date: December 14, 2005

United States of America)
State of Washington) ss.:
County of King)

On this 14th day of December, 2005, before me personally came Xiaddong Li, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

[Signature]
Notary Public

my comm. exp. December 10, 2008

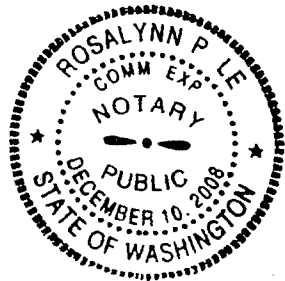


EXHIBIT E2



42938 8004 US1
 ATALU
 8011WD 8005 US3
 8003WD 8015 US
 8011WD 8001 WD
 8006WD 8008 WD
 8012 WD
 8002 US

UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
 DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MARCH 25, 2006

PTAS



103141387A

CHRISTOPHER J. DALEY-WATSON
 PERKINS COIE LLP
 P.O. BOX 1247
 SEATTLE, WA 98111-1247

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PERKINS COIE LLP

DOCKETED

UNITED STATES PATENT AND TRADEMARK OFFICE
 NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 12/15/2005

REEL/FRAME: 017363/0370
 NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 429388000US

ASSIGNOR:
 WALTICAL SOLUTIONS, INC.

DOC DATE: 12/14/2005

ASSIGNEE:
 NEOCIFIC, INC.
 13312 SE 43RD STREET
 BELLEVUE, WASHINGTON 98006

SERIAL NUMBER: 10456654
 PATENT NUMBER:
 TITLE: ADAPTIVE COMMUNICATIONS SYSTEM AND METHOD

FILING DATE: 06/05/2003
 ISSUE DATE:

SERIAL NUMBER: 60688937
 PATENT NUMBER:
 TITLE: METHODS AND APPARATUS FOR A POWER EFFICIENT BROADCASTING AND COMMUNICATION SYSTEM

FILING DATE: 06/09/2005
 ISSUE DATE:

SERIAL NUMBER: 10360007 FILING DATE: 02/07/2003
PATENT NUMBER: ISSUE DATE:
TITLE: PROTECTING INFORMATION TRANSMISSIONS VIA ENCRYPTION, SUCH AS WITH
KEY HOPPING TECHNIQUES IN AN 802.11 WIRELESS NETWORK

SERIAL NUMBER: 60665184 FILING DATE: 03/25/2005
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION
SYSTEM

SERIAL NUMBER: 60704141 FILING DATE: 07/29/2005
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS USING NON-
UNIFORM SYMBOL STRUCTURES

SERIAL NUMBER: 60665205 FILING DATE: 03/25/2005
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA
NETWORK

SERIAL NUMBER: 60721451 FILING DATE: 09/28/2005
PATENT NUMBER: ISSUE DATE:
TITLE: METHOD AND APPARATUS FOR MULTI-CARRIER PACKET COMMUNICATION WITH
REDUCED OVERHEAD

SERIAL NUMBER: FILING DATE: 01/20/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0501939
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER, MULTI-CELL WIRELESS
COMMUNICATION NETWORKS

SERIAL NUMBER: FILING DATE: 03/09/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0508169
TITLE: METHODS AND APPARATUS FOR RANDOM ACCESS IN MULTI-CARRIER
COMMUNICATION SYSTEMS

SERIAL NUMBER: FILING DATE: 06/29/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0523399
TITLE: METHODS AND APPARATUS FOR POWER CONTROL IN MULTI-CARRIER WIRELESS
SYSTEMS

SERIAL NUMBER: FILING DATE: 02/14/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0504601
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATION SYSTEMS WITH
ADAPTIVE TRANSMISSION AND FEEDBACK

SERIAL NUMBER: FILING DATE: 04/29/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0514828
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS WITH
VARIABLE CHANNEL BANDWIDTH

017363/0370 PAGE 3

SERIAL NUMBER: FILING DATE: 02/07/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0503889
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATION SYSTEMS WITH
AUTOMATIC REPEAT REQUEST (ARQ)

SERIAL NUMBER: FILING DATE: 01/27/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0503518
TITLE: METHODS AND APPARATUS FOR OVERLAYING MULTI-CARRIER AND DIRECT
SEQUENCE SPREAD SPECTRUM SIGNAL IN A BROADBAND WIRELESS
COMMUNICATION SYSTEM

SERIAL NUMBER: FILING DATE: 04/29/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0514835
TITLE: METHODS AND APPARATUS FOR COMMUNICATION WITH TIME-DIVISION DUPLEXING

SHAREILL COLES, EXAMINER
ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

12-51-21

12-21-2005

Form PTO-1595 (Rev. 07/05)
OMB No. 0651-0027 (exp. 6/06)



U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

2 SHEET

103141387

Y

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):
Waltical Solutions, Inc.

2. Name and address of receiving party(ies)

Name: Neocific, Inc.

Internal Address:

Street Address:

13312 SE 43rd Street

City: Bellevue

State: Washington

Country: United States of America Zip: 98006

Additional name(s) & address(es) attached: Yes No

3. Nature of conveyance/Execution Date(s):

Execution Date(s): December 14, 2005

Assignment Merger Change of Name

Security Agreement Joint Research Agreement

Government Interest Assignment

Executive Order 9424, Confirmatory License

Other

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

| | | |
|------------|------------|------------|
| US05/01939 | US05/04601 | US05/03889 |
| 10/456,654 | 10/360,007 | US05/03518 |
| US05/08169 | US05/14828 | US05/14835 |
| US05/23399 | 60/665,184 | 60/665,205 |
| 60/688,937 | 60/704,141 | 60/721,451 |

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Christopher J. Daley-Watson
PERKINS COIE LLP

Internal Address: Atty. Dkt.: 429388000US

Street Address: P.O. Box 1247

City: Seattle

State: WA Zip: 98111-1247

Phone Number: (206) 359-8000

Fax Number: (206) 359-9000

Email Address:

6. Total number of applications and patents involved: 15

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 600.00

Authorized to be charged by credit card

Authorized to be charged to deposit account

Enclosed

None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number _____
Authorized User Name _____

9. Signature:

Signature

December 15, 2005

Date

Christopher J. Daley-Watson - 34,807
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 5

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV758928963US, in an envelope addressed to: MS Assignment Recordation Services, Director of the US Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Dated: 12/16/05 Signature: Peter Sher (Peter Sher)

12/20/2005 ELDOPER 00000048 PCT/US05/01939
01 FC:8021 600.00 OP

EXHIBIT E3

ASSIGNMENT BY INVENTORS

This Assignment is by Xiaodong Li; Titus Lo; Haiming Huang; and Kemin Li (the "Assignors"), residing at 9919 129th PL NE, Kirkland, Washington 98033; 13312 SE 43rd ST, Bellevue, Washington 98006; 605 141st CT SE #D203, Bellevue, Washington 98007; and 4228 144th LN SE, Bellevue, 98006, respectively. The Assignors have invented one or more certain inventions (the "Invention(s)") described in a Patent application for Letters Patent of the United States entitled METHODS AND APPARATUS FOR COMMUNICATION SYSTEMS WITH TIME-DIVISION DUPLEXING (the "Application"), executed concurrently herewith and naming the Assignors as inventors. The Assignors authorize the Assignee, identified below, or its representatives to insert the application number of the Application US05/14835 when known.

Waltical Solution, Inc. (formerly Walbell Technologies, Inc.), a corporation of Washington having its principal place of business at Suite D159, 1750 112th Ave. NE, Bellevue, Washington 98004 ("Assignee"), desires to acquire the entire right, title and interest in and to the Invention(s) and the Application, and in and to any patents (collectively, "Patents") that may be granted for the Invention(s) in the United States or in any foreign countries.

For valuable consideration, the receipt and sufficiency of which Assignors acknowledge, Assignors hereby sell, assign, and transfer to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to: the Invention(s), the Application, and any Patents; any divisions, continuations, and continuations-in-part of the Application and any other application claiming priority rights from the Application; any reissues, reexaminations, or extensions of any and all Patents; the right to file foreign applications directly in the name of Assignee; and the right to claim priority rights deriving from the Application (collectively, the "Rights"). Assignors warrant that Assignors own the Rights, and that the Rights are unencumbered. Assignors also agree to not sign any writing or do any act conflicting with this assignment, and, without further compensation, sign all documents and do

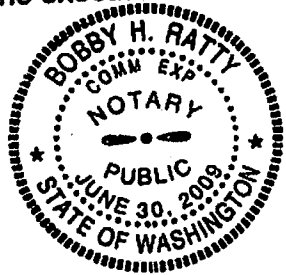
such additional acts as Assignee deems necessary or desirable to: perfect Assignee's enjoyment of the Rights; conduct proceedings regarding the Rights, including any litigation or interference proceedings; or perfect or defend title to the Rights. Assignors request the Commissioner of Patents to issue any Patent of the United States that may be issued on the Invention(s) to Assignee. This Assignment may be executed in counterparts.

Xiaodong Li
Xiaodong Li

Date: 10/6/2005

United States of America
State of WA) ss.:
County of King)

On this 6th day of October, 2005, before me personally came Xiaodong Li, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



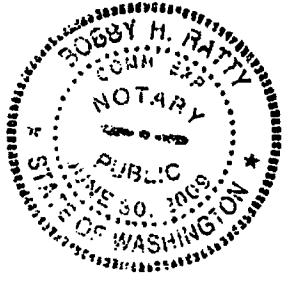
Bobby H. Ratty
Notary Public

[Signature]
Titus Lo

Date: 10/6/05

United States of America)
State of WA) ss.:
County of King)

On this 6th day of October, 2005, before me personally came Titus Lo, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



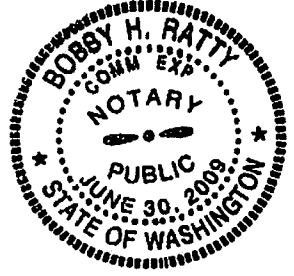
[Signature]
Notary Public

Li
Kemin Li

Date: 10/06/2005

United States of America)
State of WA) ss.:
County of King)

On this 6th day of October, 2005, before me
personally came Kemin Li, to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.



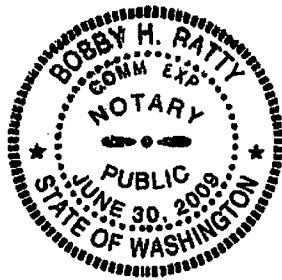
Batty
Notary Public

[Signature]
Haiming Huang

Date: 10/6/2005

United States of America)
State of WA) ss.:
County of King)

On this 6th day of October, 2005, before me
personally came Haiming Huang, to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.



[Signature]
Notary Public

EXHIBIT E4

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

**UNITED STATES PATENT AND TRADEMARK OFFICE**UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

SEPTEMBER 03, 2009

500951263A

PTAS

STEPHANIE OLSON
PO BOX 1247
SEA-PAT
SEATTLE, WA 98111-1247UNITED STATES PATENT AND TRADEMARK OFFICE
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RECORDATION DATE: 09/01/2009

REEL/FRAME: 023175/0461
NUMBER OF PAGES: 8BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: 61240.8011 US01ASSIGNOR:
LI, XIAODONG

DOC DATE: 10/06/2005

ASSIGNOR:
LO, TITUS

DOC DATE: 10/06/2005

ASSIGNOR:
LI, KEMIN

DOC DATE: 10/06/2005

ASSIGNOR:
HUANG, HAIMING

DOC DATE: 10/06/2005

ASSIGNEE:
WALTICAL SOLUTION, INC.
1750 112TH AVE. NE
SUITE D159
BELLEVUE, WASHINGTON 98004

USPTO

9/4/2009 1:49:00 PM

PAGE

3/005

Fax Server

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

023175/0461 PAGE 2

SERIAL NUMBER: 11568385

FILING DATE: 08/16/2007

PATENT NUMBER:

ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR COMMUNICATION WITH TIME-DIVISION DUPLEXING

ASSIGNMENT SERVICES BRANCH

PUBLIC RECORDS DIVISION

PATENT
REEL: 027107 FRAME: 0236

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

09/01/2009
500951263

| | |
|------------------------------|----------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------|----------------|
| Xiaodong Li | 10/06/2005 |
| Titus Lo | 10/06/2005 |
| Kemin Li | 10/06/2005 |
| Haiming Huang | 10/06/2005 |

RECEIVING PARTY DATA

| | |
|--------------------------|-------------------------|
| Name: | Waltical Solution, Inc. |
| Street Address: | 1750 112th Ave. NE |
| Internal Address: | Suite D159 |
| City: | Bellevue |
| State/Country: | WASHINGTON |
| Postal Code: | 98004 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|----------------------------|----------|
| Application Number: | 11568385 |

CORRESPONDENCE DATA

Fax Number: (206)359-9219
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
 Email: solson@perkinscoie.com
 Correspondent Name: Stephanie Olson
 Address Line 1: PO Box 1247
 Address Line 2: SEA-PAT
 Address Line 4: Seattle, WASHINGTON 98111-1247

| | |
|--------------------------------|-------------------|
| ATTORNEY DOCKET NUMBER: | 81240.8011 US01 |
| NAME OF SUBMITTER: | Stephen C. Bishop |

OP \$40.00 11568385

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

Total Attachments: 6

source=612408011_Assignment_Inventors_Waltica#page1.tif

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source=612408011_Assignment_Inventors_Waltica#page4.tif

source=612408011_Assignment_Inventors_Waltica#page5.tif

source=612408011_Assignment_Inventors_Waltica#page6.tif

EXHIBIT F1

42938-800 US

RECORDATION FORM COVER SHEET
PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):

Waltical Solutions, Inc.

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

Name: Neocific, Inc.

Internal Address: _____

Street Address: _____

13312 SE 43rd Street

City: Bellevue

State: Washington

Country: United States of America Zip: 98006

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance/Execution Date(s):

Execution Date(s): December 14, 2005

Assignment Merger Change of Name

Security Agreement Joint Research Agreement

Government Interest Assignment

Executive Order 9424, Confirmatory License

Other _____

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

| | | |
|------------|------------|------------|
| US05/01939 | US05/04601 | US05/03889 |
| 10/456,654 | 10/360,007 | US05/03518 |
| US05/08169 | US05/14828 | US05/14835 |
| US05/23399 | 60/665,184 | 60/665,205 |
| 60/688,937 | 60/704,141 | 60/721,451 |

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Christopher J. Daley-Watson
PERKINS COIE LLP

Internal Address: Atty. Dkt.: 429388000US

Street Address: P.O. Box 1247

City: Seattle

State: WA Zip: 98111-1247

Phone Number: (206) 359-8000

Fax Number: (206) 359-9000

Email Address: _____

6. Total number of applications and patents involved:

15

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 600.00

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____

Expiration Date _____

b. Deposit Account Number _____

Authorized User Name _____

9. Signature:

December 15, 2005

Signature

Date

Christopher J. Daley-Watson - 34,807

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

5

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV758928963US, in an envelope addressed to: MS Assignment Recordation Services, Director of the US Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: 12/16/05

Signature: Peter Sher (Peter Sher)

ASSIGNMENT

Waltical Solutions, Inc., a corporation organized under and pursuant to the laws of Washington, having its principal place of business at 1750 112th Avenue NE, Suite D 159; Bellevue, Washington 98004 (hereinafter referred to as "Assignor"), is the sole and exclusive owner, by assignment, of the Patent Applications listed in Schedule A; and

Neocific, Inc., a corporation organized under and pursuant to the laws of Delaware, having its principal place of business at 13312 SE 43rd Street, Bellevue, Washington 98006 (hereinafter referred to as "Assignee"), desires to acquire the right, title and interest in, to and under said Patent Applications and the inventions covered thereby;

For valuable consideration, the receipt and sufficiency of which Assignor acknowledges, Assignor hereby sells, assigns, and transfers to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to said applications for all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefore in the United States of America and all other countries on the attached list of *Schedule A*, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on *Schedule A* to said assignee herein, as assignee of the entire interest therein; and the undersigned for itself and its legal representatives, heirs and assigns does hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, continuation-in-part, reissue and other applications for Letters Patent and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said inventions listed on *Schedule A* whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said inventions listed on *Schedule A* in the United States of America and all other countries, the expenses incident to said applications listed on *Schedule A* to be borne and paid by said assignee.

SCHEDULE A

| Application Number (Patent Number) | Filing Date | Inventor | Title | Ctry |
|------------------------------------|----------------|--|---|------|
| US05/01939 | Jan. 20, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER, MULTI-CELL WIRELESS COMMUNICATION NETWORKS | PCT |
| US05/04601 | Feb. 14, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS SYSTEMS WITH ADAPTIVE TRANSMISSION AND FEEDBACK | PCT |
| US05/03889 | Feb. 7, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS SYSTEMS WITH AUTOMATIC REPEAT REQUEST (ARQ) | PCT |
| 10/456,654 | June 5, 2003 | Titus Lo | ADAPTIVE COMMUNICATIONS SYSTEM AND METHOD | US |
| 10/360,007 | Feb. 7, 2003 | Wen-Ping Ying | PROTECTING INFORMATION TRANSMISSIONS VIA ENCRYPTION, SUCH AS WITH KEY HOPPING TECHNIQUES IN AN 802.11 WIRELESS NETWORK | US |
| US05/03518 | Jan. 27, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR OVERLAYING MULTI-CARRIER AND DIRECT SEQUENCE SPREAD SPECTRUM SIGNALS IN A BROADBAND WIRELESS COMMUNICATION SYSTEM | PCT |
| US05/08169 | March 9, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHOD AND APPARATUS FOR RANDOM ACCESS IN MULTI-CARRIER COMMUNICATION SYSTEMS | PCT |
| US05/14828 | April 29, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS WITH VARIABLE CHANNEL BANDWIDTH | PCT |
| US05/14835 | April 29, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR COMMUNICATION SYSTEM WITH TIME-DIVISION DUPLEXING | PCT |
| US05/23399 | June 29, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang, Jun Meng | METHODS AND APPARATUS FOR POWER CONTROL IN MULTI-CARRIER SYSTEMS | PCT |
| 60/665,184 | Mar. 25, 2005 | Haiming Huang, Xiaodong Li, Titus Lo, Kemin Li | METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION SYSTEM | US |

| | | | | |
|------------|----------------|--|--|----|
| 60/665,205 | Mar. 25, 2005 | Haiming Huang, Xiaodong Li, Titus Lo, Kemin Li | METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA NETWORKS | US |
| 60/688,937 | June 9, 2005 | Haiming Huang, Xiaodong Li, Titus Lo, Kemin Li | METHODS AND APPARATUS FOR A POWER EFFICIENT BROADCASTING AND COMMUNICATION SYSTEM | US |
| 60/704,141 | July 29, 2005 | Titus Lo, Xiaodong Li, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS USING NON-UNIFORM SYMBOL STRUCTURES | US |
| 60/721,451 | Sept. 28, 2005 | Xiaodong Li, Haiming Huang, Titus Lo, Ruifeng Wang | METHOD AND APPARATUS FOR MULTI-CARRIER PACKET COMMUNICATION WITH REDUCED OVERHEAD | US |

Waltical Solutions, Inc.

By: [Signature]

Name: XIAODONG LI

Title: PRESIDENT

Date: December 14, 2005

United States of America)
State of Washington) ss.:
County of King)

On this 14th day of December, 2005, before me personally came Xiaodong Li, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

[Signature]
Notary Public

my comm. exp. December 10, 2008

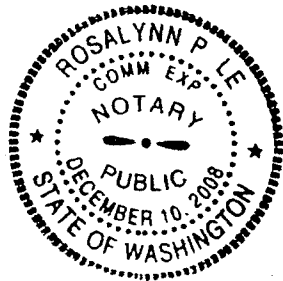


EXHIBIT F2



42938 8004 us1
 8010WD | ATALH
 8003WD | 8005 us3
 8011WD | 8015 US
 8006WD | 8001 WD
 | 8008WD
 | 8012WD
 | 8002 us0

UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
 DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MARCH 25, 2006

PTAS



103141387A

CHRISTOPHER J. DALEY-WATSON
 PERKINS COIE LLP
 P.O. BOX 1247
 SEATTLE, WA 98111-1247

RECEIVED
 PATENT DOCKETING

APR 07 2006

PERKINS COIE LLP

DOCKETED

UNITED STATES PATENT AND TRADEMARK OFFICE
 NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 12/15/2005

REEL/FRAME: 017363/0370

NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 429388000US

ASSIGNOR:

WALTICAL SOLUTIONS, INC.

DOC DATE: 12/14/2005

ASSIGNEE:

NEOCIFIC, INC.
 13312 SE 43RD STREET
 BELLEVUE, WASHINGTON 98006

SERIAL NUMBER: 10456654

FILING DATE: 06/05/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: ADAPTIVE COMMUNICATIONS SYSTEM AND METHOD

SERIAL NUMBER: 60688937

FILING DATE: 06/09/2005

PATENT NUMBER:

ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR A POWER EFFICIENT BROADCASTING AND COMMUNICATION SYSTEM

SERIAL NUMBER: 10360007 FILING DATE: 02/07/2003
PATENT NUMBER: ISSUE DATE:
TITLE: PROTECTING INFORMATION TRANSMISSIONS VIA ENCRYPTION, SUCH AS WITH
KEY HOPPING TECHNIQUES IN AN 802.11 WIRELESS NETWORK

SERIAL NUMBER: 60665184 FILING DATE: 03/25/2005
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION
SYSTEM

SERIAL NUMBER: 60704141 FILING DATE: 07/29/2005
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS USING NON-
UNIFORM SYMBOL STRUCTURES

SERIAL NUMBER: 60665205 FILING DATE: 03/25/2005
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA
NETWORK

SERIAL NUMBER: 60721451 FILING DATE: 09/28/2005
PATENT NUMBER: ISSUE DATE:
TITLE: METHOD AND APPARATUS FOR MULTI-CARRIER PACKET COMMUNICATION WITH
REDUCED OVERHEAD

SERIAL NUMBER: FILING DATE: 01/20/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0501939
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER, MULTI-CELL WIRELESS
COMMUNICATION NETWORKS

SERIAL NUMBER: FILING DATE: 03/09/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0508169
TITLE: METHODS AND APPARATUS FOR RANDOM ACCESS IN MULTI-CARRIER
COMMUNICATION SYSTEMS

SERIAL NUMBER: FILING DATE: 06/29/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0523399
TITLE: METHODS AND APPARATUS FOR POWER CONTROL IN MULTI-CARRIER WIRELESS
SYSTEMS

SERIAL NUMBER: FILING DATE: 02/14/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0504601
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATION SYSTEMS WITH
ADAPTIVE TRANSMISSION AND FEEDBACK

SERIAL NUMBER: FILING DATE: 04/29/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0514828
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS WITH
VARIABLE CHANNEL BANDWIDTH

017363/0370 PAGE 3

SERIAL NUMBER: FILING DATE: 02/07/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0503889
TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATION SYSTEMS WITH
AUTOMATIC REPEAT REQUEST (ARQ)

SERIAL NUMBER: FILING DATE: 01/27/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0503518
TITLE: METHODS AND APPARATUS FOR OVERLAYING MULTI-CARRIER AND DIRECT
SEQUENCE SPREAD SPECTRUM SIGNAL IN A BROADBAND WIRELESS
COMMUNICATION SYSTEM

SERIAL NUMBER: FILING DATE: 04/29/2005
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0514835
TITLE: METHODS AND APPARATUS FOR COMMUNICATION WITH TIME-DIVISION DUPLEXING

SHAREILL COLES, EXAMINER
ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

12-21-2005

Form PTO-1595 (Rev. 07/05)
OMB No. 0651-0027 (exp. 6/)

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office



2 SHEET

103141387

Y

12-15-05

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):
Waltical Solutions, Inc.
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
Name: Neocific, Inc.
Internal Address:
Street Address:

3. Nature of conveyance/Execution Date(s):
Execution Date(s): December 14, 2005
 Assignment Merger Change of Name
 Security Agreement Joint Research Agreement
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other

13312 SE 43rd Street
City: Bellevue
State: Washington
Country: United States of America Zip: 98006
Additional name(s) & address(es) attached: Yes No

4. Application or patent number(s):
A. Patent Application No.(s)
US05/01939 US05/04601 US05/03889
10/456,654 10/360,007 US05/03518
US05/08169 US05/14828 US05/14835
US05/23399 60/665,184 60/665,205
60/688,937 60/704,141 60/721,451
Additional numbers attached? Yes No

This document is being filed together with a new application.
B. Patent No.(s)
 Yes No

5. Name and address to whom correspondence concerning document should be mailed:
Name: Christopher J. Daley-Watson
PERKINS COIE LLP
Internal Address: Atty. Dkt.: 429388000US
Street Address: P.O. Box 1247
City: Seattle
State: WA Zip: 98111-1247
Phone Number: (206) 359-8000
Fax Number: (206) 359-9000
Email Address:

6. Total number of applications and patents involved: 15
7. Total fee (37 CFR 1.21(h) & 3.41) \$ 600.00
 Authorized to be charged by credit card
 Authorized to be charged to deposit account
 Enclosed
 None required (government interest not affecting title)

9. Signature:

Signature
December 15, 2005
Date
Christopher J. Daley-Watson - 34,807
Name of Person Signing

8. Payment Information
a. Credit Card Last 4 Numbers
Expiration Date
b. Deposit Account Number
Authorized User Name

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV758928963US, in an envelope addressed to: MS Assignment Recordation Services, Director of the US Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.
Dated: 12/16/05 Signature: Peter Sher (Peter Sher)
Total number of pages including cover sheet, attachments, and documents: 5

12/20/2005 ECDOPER 00000048 PCT/US05/01939
01 FC:8021 600.00 OP

EXHIBIT F3

ASSIGNMENT BY INVENTORS

This Assignment is by Xiaodong Li; Titus Lo; Haiming Huang; Kemin Li, and Jun Meng (the "Assignors"), residing at 9919 129th PL NE, Kirkland, Washington 98033; 13312 SE 43rd ST, Bellevue, Washington 98006; 605 141st CT SE #D203, Bellevue, Washington 98007; 4228 144th LN SE, Bellevue, 98006, and 4239 144th LN SE, Bellevue, 98006 respectively. The Assignors have invented one or more certain inventions (the "Invention(s)") described in a Patent application for Letters Patent of the United States entitled METHODS AND APPARATUS FOR POWER CONTROL IN MULTI-CARRIER WIRELESS SYSTEMS (the "Application"), executed concurrently herewith and naming the Assignors as inventors. The Assignors authorize the Assignee, identified below, or its representatives to insert the application number of the Application USD/23399 when known.

Waltical Solution, Inc. (formerly Walbell Technologies, Inc.), a corporation of Washington having its principal place of business at Suite D159, 1750 112th Ave. NE, Bellevue, Washington 98004 ("Assignee"), desires to acquire the entire right, title and interest in and to the Invention(s) and the Application, and in and to any patents (collectively, "Patents") that may be granted for the Invention(s) in the United States or in any foreign countries.

For valuable consideration, the receipt and sufficiency of which Assignors acknowledge, Assignors hereby sell, assign, and transfer to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to: the Invention(s), the Application, and any Patents; any divisions, continuations, and continuations-in-part of the Application and any other application claiming priority rights from the Application; any reissues, reexaminations, or extensions of any and all Patents; the right to file foreign applications directly in the name of Assignee; and the right to claim priority rights deriving from the Application (collectively, the "Rights"). Assignors warrant that Assignors own the Rights, and that the Rights are unencumbered. Assignors also agree to not sign any writing or do any act conflicting

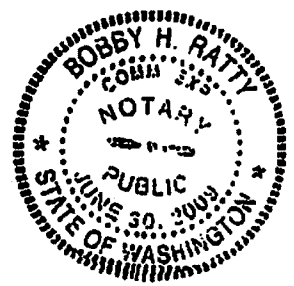
with this assignment, and, without further compensation, sign all documents and do such additional acts as Assignee deems necessary or desirable to: perfect Assignee's enjoyment of the Rights; conduct proceedings regarding the Rights, including any litigation or interference proceedings; or perfect or defend title to the Rights. Assignors request the Commissioner of Patents to issue any Patent of the United States that may be issued on the invention(s) to Assignee. This Assignment may be executed in counterparts.

[Signature]
Jun Meng

Date: 10/6/2005

United States of America
State of WA) ss.:
County of King)

On this 6th day of October, 2005 before me
personally came Jun Meng, to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.



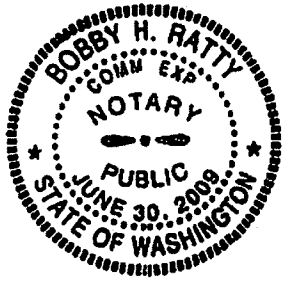
[Signature]
Notary Public

[Signature]
Kemin Li

Date: 10/06/2005

United States of America)
State of WA) ss.:
County of King)

On this 6th day of October, 2005, before me personally came Kemin Li, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



[Signature]
Notary Public

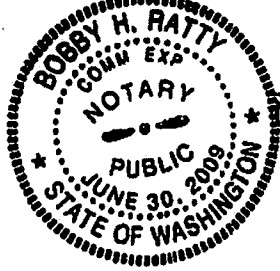
[Handwritten Signature]

Haiming Huang

Date: 10/6/2005

United States of America)
State of WA) ss.:
County of King)

On this 6th day of October, 2005, before me personally came Haiming Huang, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



[Handwritten Signature]

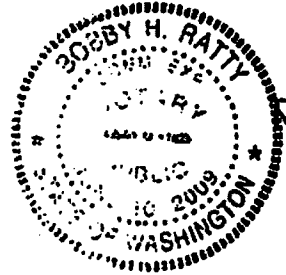
Notary Public

[Signature]
Titus Lo

Date: 10/6/05

United States of America)
State of WA) ss.:
County of King)

On this 6th day of October, 2005, before me personally came Titus Lo, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



[Signature]
Notary Public

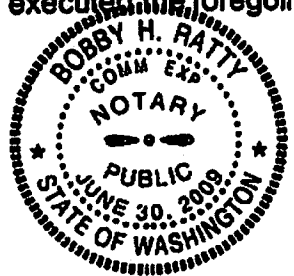
Xiaodong Li

Xiaodong Li

Date: 10/6/2005

United States of America)
State of WA) ss.:
County of King)

On this 6th day of October, 2005, before me personally came Xiaodong Li, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Bobby H. Ratty

Notary Public

EXHIBIT F4

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

**UNITED STATES PATENT AND TRADEMARK OFFICE**UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

501010311A

NOVEMBER 09, 2009

PTAS

STEPHANIE OLSON
PO BOX 1247
SEA-PAT
SEATTLE, WA 98111-1247UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 11/09/2009

REEL/FRAME: 023491/0061
NUMBER OF PAGES: 9BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: 61240.8012 US01

ASSIGNOR:

LI, XIAODONG

DOC DATE: 10/06/2005

ASSIGNOR:

LO, TITUS

DOC DATE: 10/06/2005

ASSIGNOR:

HUANG, HAIMING

DOC DATE: 10/06/2005

ASSIGNOR:

LI, KEMIN

DOC DATE: 10/06/2005

ASSIGNOR:

MENG, JUN

DOC DATE: 10/06/2005

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

023491/0061 PAGE 2

ASSIGNEE:

WALTICAL SOLUTION, INC.
1750 112TH AVE. NE
SUITE D159
BELLEVUE, WASHINGTON 98004

SERIAL NUMBER: 11569064

FILING DATE: 06/12/2007

PATENT NUMBER:

ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR POWER CONTROL IN MULTI-CARRIER WIRELESS
SYSTEMS

ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

11/09/2009
501010311

| | |
|------------------------------|-----------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------|----------------|
| Xiaodong LI | 10/06/2005 |
| Titus Lo | 10/06/2005 |
| Haiming Huang | 10/06/2005 |
| Kemin LI | 10/06/2005 |
| Jun Meng | 10/06/2005 |

RECEIVING PARTY DATA

| | |
|--------------------------|-------------------------|
| Name: | Waltical Solution, Inc. |
| Street Address: | 1750 112th Ave. NE |
| Internal Address: | Suite D159 |
| City: | Bellevue |
| State/Country: | WASHINGTON |
| Postal Code: | 98004 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|----------------------------|----------|
| Application Number: | 11569084 |

CORRESPONDENCE DATA

Fax Number: (208)359-9219
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
Email: solson@perkinscoie.com
Correspondent Name: Stephanie Olson
Address Line 1: PO Box 1247
Address Line 2: SEA-PAT
Address Line 4: Seattle, WASHINGTON 98111-1247

| | |
|--------------------------------|-------------------|
| ATTORNEY DOCKET NUMBER: | 61240.8012 US01 |
| NAME OF SUBMITTER: | Stephen C. Bishop |

OP \$40.00 11569064

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

Total Attachments: 7

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source=61240.8012 US01 Exec Assignment Inventors to Waitcal#page7.tif

EXHIBIT H1

ASSIGNMENT

Wattical Solutions, Inc., a corporation organized under and pursuant to the laws of Washington, having its principal place of business at 1750 112th Avenue NE, Suite D 159; Bellevue, Washington 98004 (hereinafter referred to as "Assignor"), is the sole and exclusive owner, by assignment, of the Patent Applications listed in Schedule A; and

Neocific, Inc., a corporation organized under and pursuant to the laws of Delaware, having its principal place of business at 13312 SE 43rd Street, Bellevue, Washington 98006 (hereinafter referred to as "Assignee"), desires to acquire the right, title and interest in, to and under said Patent Applications and the inventions covered thereby;

For valuable consideration, the receipt and sufficiency of which Assignor acknowledges, Assignor hereby sells, assigns, and transfers to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to said applications for all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefore in the United States of America and all other countries on the attached list of *Schedule A*, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on *Schedule A* to said assignee herein, as assignee of the entire interest therein; and the undersigned for itself and its legal representatives, heirs and assigns does hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, continuation-in-part, reissue and other applications for Letters Patent and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said inventions listed on *Schedule A* whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said inventions listed on *Schedule A* in the United States of America and all other countries, the expenses incident to said applications listed on *Schedule A* to be borne and paid by said assignee.

SCHEDULE A

| Application Number (Patent Number) | Filing Date | Inventor | Title | Ctry |
|------------------------------------|----------------|--|---|------|
| US05/01939 | Jan. 20, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER, MULTI-CELL WIRELESS COMMUNICATION NETWORKS | PCT |
| US05/04601 | Feb. 14, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS SYSTEMS WITH ADAPTIVE TRANSMISSION AND FEEDBACK | PCT |
| US05/03889 | Feb. 7, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS SYSTEMS WITH AUTOMATIC REPEAT REQUEST (ARQ) | PCT |
| 10/456,654 | June 5, 2003 | Titus Lo | ADAPTIVE COMMUNICATIONS SYSTEM AND METHOD | US |
| 10/360,007 | Feb. 7, 2003 | Wen-Ping Ying | PROTECTING INFORMATION TRANSMISSIONS VIA ENCRYPTION, SUCH AS WITH KEY HOPPING TECHNIQUES IN AN 802.11 WIRELESS NETWORK | US |
| US05/03518 | Jan. 27, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR OVERLAYING MULTI-CARRIER AND DIRECT SEQUENCE SPREAD SPECTRUM SIGNALS IN A BROADBAND WIRELESS COMMUNICATION SYSTEM | PCT |
| US05/08169 | March 9, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHOD AND APPARATUS FOR RANDOM ACCESS IN MULTI-CARRIER COMMUNICATION SYSTEMS | PCT |
| US05/14828 | April 29, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS WITH VARIABLE CHANNEL BANDWIDTH | PCT |
| US05/14835 | April 29, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR COMMUNICATION SYSTEM WITH TIME-DIVISION DUPLEXING | PCT |
| US05/23399 | June 29, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang, Jun Meng | METHODS AND APPARATUS FOR POWER CONTROL IN MULTI-CARRIER SYSTEMS | PCT |
| 60/665,184 | Mar. 25, 2005 | Haiming Huang, Xiaodong Li, Titus Lo, Kemin Li | METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION SYSTEM | US |

| | | | | |
|------------|----------------|--|--|----|
| 60/665,205 | Mar. 25, 2005 | Haiming Huang, Xiaodong Li, Titus Lo, Kemlin Li | METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA NETWORKS | US |
| 60/688,937 | June 9, 2005 | Haiming Huang, Xiaodong Li, Titus Lo, Kemlin Li | METHODS AND APPARATUS FOR A POWER EFFICIENT BROADCASTING AND COMMUNICATION SYSTEM | US |
| 60/704,141 | July 29, 2005 | Titus Lo, Xiaodong Li, Kemlin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS USING NON-UNIFORM SYMBOL STRUCTURES | US |
| 60/721,451 | Sept. 28, 2005 | Xiaodong Li, Haiming Huang, Titus Lo, Ruifeng Wang | METHOD AND APPARATUS FOR MULTI-CARRIER PACKET COMMUNICATION WITH REDUCED OVERHEAD | US |

Waltical Solutions, Inc.

By: [Signature]
Name: XIAODONG LI
Title: PRESIDENT

Date: December 14, 2005

United States of America)
State of Washington) ss.:
County of King)

On this 14th day of December, 2005, before me personally came Xiaodong Li, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

[Signature]
Notary Public

my comm. exp. December 10, 2008

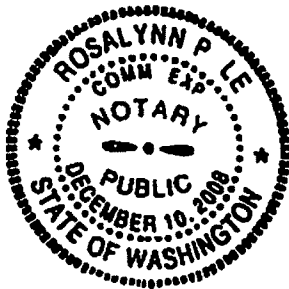


EXHIBIT H2

TO:STEPHANIE OLSON COMPANY:PO BOX 1247



UNITED STATES PATENT AND TRADEMARK OFFICE

Facsimile Transmission

To: **Name:** STEPHANIE OLSON
 Company: PO BOX 1247
 Fax Number: 12063599219
 Voice Phone:

From: **Name:** ASSIGNMENT SERVICES BRANCH
 Voice Phone: 571-272-3350

37 C.F.R. 1.6 sets forth the types of correspondence that can be communicated to the Patent and Trademark Office via facsimile transmissions. Applicants are advised to use the certificate of facsimile transmission procedures when submitting a reply to a non-final or final Office action by facsimile (37 CFR 1.8(a)).

Fax Notes:

| Pg# | Description |
|-----|---------------------------|
| 1 | Cover Page |
| 2 | 1005.TXT |
| 4 | Document 1, Batch 1843147 |

USPTO ASSIGNMENT SYSTEM PROCESSING

Date and time of transmission: Tuesday, November 10, 2009 9:27:14 AM
Number of pages including this cover sheet: 04

PATENT
REEL: 027107 FRAME: 0269

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

**UNITED STATES PATENT AND TRADEMARK OFFICE**UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

NOVEMBER 09, 2009

501010546

PTAS

STEPHANIE OLSON
PO BOX 1247
SEA-PAT
SEATTLE, WA 98111-1247UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENTTHE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF
THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS
AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER
REFERENCED BELOW.PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE
INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA
PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD
FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY
CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350.
PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE,
MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 11/09/2009

REEL/FRAME: 023492/0200

NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: 61240.8015 US02

ASSIGNOR:

WALTICAL SOLUTIONS, INC.

DOC DATE: 12/14/2005

ASSIGNEE:

NEOCIFIC, INC.
13312 SE 43RD STREET
BELLEVUE, WASHINGTON 98006

SERIAL NUMBER: 11571468

FILING DATE: 11/28/2007

PATENT NUMBER:

ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION
SYSTEM

USPTO

11/10/2009 9:34:35 AM PAGE 3/004 Fax Server

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

023492/0200 PAGE 2

ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

PATENT
REEL: 027107 FRAME: 0271

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.111/09/2009
501010546

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | |
|--|--------------------------------|---------------|----------------|--------------------------|------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | |
| CONVEYING PARTY DATA | | | | | |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Waltical Solutions, Inc.</td> <td>12/14/2005</td> </tr> </tbody> </table> | | Name | Execution Date | Waltical Solutions, Inc. | 12/14/2005 |
| Name | Execution Date | | | | |
| Waltical Solutions, Inc. | 12/14/2005 | | | | |
| RECEIVING PARTY DATA | | | | | |
| Name: | Neocific, Inc. | | | | |
| Street Address: | 13312 SE 43rd Street | | | | |
| City: | Bellevue | | | | |
| State/Country: | WASHINGTON | | | | |
| Postal Code: | 98008 | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | |
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| Property Type | Number | | | | |
| Application Number: | 11571468 | | | | |
| CORRESPONDENCE DATA | | | | | |
| Fax Number: | (206)359-9219 | | | | |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> | | | | | |
| Email: | solson@perkinscole.com | | | | |
| Correspondent Name: | Stephanie Olson | | | | |
| Address Line 1: | PO Box 1247 | | | | |
| Address Line 2: | SEA-PAT | | | | |
| Address Line 4: | Seattle, WASHINGTON 98111-1247 | | | | |
| ATTORNEY DOCKET NUMBER: | 61240.8015 US02 | | | | |
| NAME OF SUBMITTER: | Stephen C. Bishop | | | | |
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OP \$40.00 11571468

EXHIBIT H3

ASSIGNMENT BY INVENTORS

This Assignment is by Xiaodong Li; Titus Lo; Haiming Huang; and Kemin Li (the "Assignors"), residing at 9919 129th PL NE, Kirkland, Washington 98033; 13312 SE 43rd ST, Bellevue, Washington 98006; 605 141st CT SE #D203, Bellevue, Washington 98007; and 4228 144th LN SE, Bellevue, 98006, respectively. The Assignors have invented one or more certain inventions (the "invention(s)") described in a Patent application for Letters Patent of the United States entitled METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA NETWORKS (the "Application"), executed concurrently herewith and naming the Assignors as inventors. The Assignors authorize the Assignee, identified below, or its representatives to insert the application number of the Application 60/665,205 when known.

Waltical Solution, Inc. (formerly Walbell Technologies, Inc.), a corporation of Washington having its principal place of business at Suite D159, 1750 112th Ave. NE, Bellevue, Washington 98004 ("Assignee"), desires to acquire the entire right, title and interest in and to the Invention(s) and the Application, and in and to any patents (collectively, "Patents") that may be granted for the Invention(s) in the United States or in any foreign countries.

For valuable consideration, the receipt and sufficiency of which Assignors acknowledge, Assignors hereby sell, assign, and transfer to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to: the Invention(s), the Application, and any Patents; any divisions, continuations, and continuations-in-part of the Application and any other application claiming priority rights from the Application; any reissues, reexaminations, or extensions of any and all Patents; the right to file foreign applications directly in the name of Assignee; and the right to claim priority rights deriving from the Application (collectively, the "Rights"). Assignors warrant that Assignors own the Rights, and that the Rights are unencumbered. Assignors also agree to not sign any writing or do any act conflicting with this assignment, and, without further compensation, sign all documents and do

such additional acts as Assignee deems necessary or desirable to: perfect Assignee's enjoyment of the Rights; conduct proceedings regarding the Rights, including any litigation or interference proceedings; or perfect or defend title to the Rights. Assignors request the Commissioner of Patents to issue any Patent of the United States that may be issued on the Invention(s) to Assignee. This Assignment may be executed in counterparts.

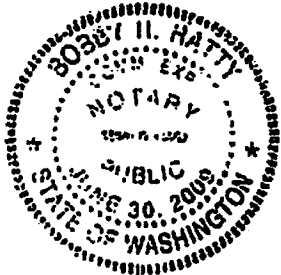
Xiaodong Li

Xiaodong Li

Date: 10/6/2005

United States of America)
State of WA) ss.:
County of King)

On this 6th day of October, 2005, before me personally came Xiaodong Li, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Bobby H. Ratty

Notary Public

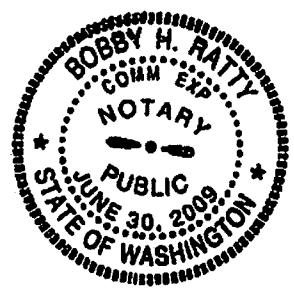
[Signature]

Titus Lo

Date: 10/6/05

United States of America)
State of WA) ss.:
County of King)

On this 6th day of October, 2005, before me personally came Titus Lo, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



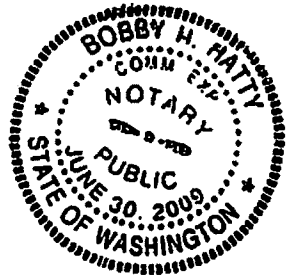
[Signature]
Notary Public

[Signature]
Haiming Huang

Date: 10/6/2005

United States of America)
State of WA) ss.:
County of King)

On this 6th day of October, 2005, before me personally came Haiming Huang, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



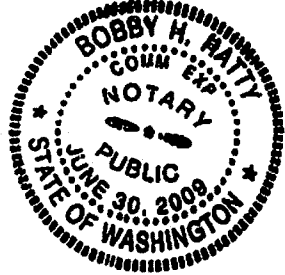
[Signature]
Notary Public

Li Li
Kemin Li

Date: 10/06/2005

United States of America)
State of WA) ss.:
County of King)

On this 6th day of October, 2005, before me personally came Kemin Li, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



[Signature]
Notary Public

EXHIBIT H4

TO:STEPHANIE OLSON COMPANY:PO BOX 1247



UNITED STATES PATENT AND TRADEMARK OFFICE

 UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
 DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE


501010539

NOVEMBER 09, 2009

PTAS

 STEPHANIE OLSON
 PO BOX 1247
 SEA-PAT
 SEATTLE, WA 98111-1247

 UNITED STATES PATENT AND TRADEMARK OFFICE
 NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 11/09/2009

 REEL/FRAME: 023492/0172
 NUMBER OF PAGES: 14

 BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
 DOCKET NUMBER: 61240.8015 US02

 ASSIGNOR:
 LI, XIAODONG

DOC DATE: 10/06/2005

 ASSIGNOR:
 LO, TITUS

DOC DATE: 10/06/2005

 ASSIGNOR:
 HUANG, HAIMING

DOC DATE: 10/06/2005

 ASSIGNOR:
 LI, KEMIN

DOC DATE: 10/06/2005

 ASSIGNEE:
 WALTICAL SOLUTION, INC.
 1750 112TH AVE NE
 SUITE D159
 BELLEVUE, WASHINGTON 98004

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

023492/0172 PAGE 2

SERIAL NUMBER: 11571468

FILING DATE: 11/28/2007

PATENT NUMBER:

ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION SYSTEM

ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.111/09/2009
501010539

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|---|--------------------------------|---------------|----------------|---------------------|------------|----------|------------|---------------|------------|-----------|------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Xiaodong LI</td> <td>10/08/2005</td> </tr> <tr> <td>Titus Lo</td> <td>10/08/2005</td> </tr> <tr> <td>Haiming Huang</td> <td>10/08/2005</td> </tr> <tr> <td>Kemlin LI</td> <td>10/08/2005</td> </tr> </tbody> </table> | | Name | Execution Date | Xiaodong LI | 10/08/2005 | Titus Lo | 10/08/2005 | Haiming Huang | 10/08/2005 | Kemlin LI | 10/08/2005 |
| Name | Execution Date | | | | | | | | | | |
| Xiaodong LI | 10/08/2005 | | | | | | | | | | |
| Titus Lo | 10/08/2005 | | | | | | | | | | |
| Haiming Huang | 10/08/2005 | | | | | | | | | | |
| Kemlin LI | 10/08/2005 | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | |
| Name: | Wattical Solution, Inc. | | | | | | | | | | |
| Street Address: | 1750 112th Ave NE | | | | | | | | | | |
| Internal Address: | Suite D159 | | | | | | | | | | |
| City: | Bellevue | | | | | | | | | | |
| State/Country: | WASHINGTON | | | | | | | | | | |
| Postal Code: | 98004 | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11571468</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 11571468 | | | | | | |
| Property Type | Number | | | | | | | | | | |
| Application Number: | 11571468 | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | |
| Fax Number: | (206)359-9219 | | | | | | | | | | |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> | | | | | | | | | | | |
| Email: | solson@perkinscoie.com | | | | | | | | | | |
| Correspondent Name: | Stephanie Olson | | | | | | | | | | |
| Address Line 1: | PO Box 1247 | | | | | | | | | | |
| Address Line 2: | SEA-PAT | | | | | | | | | | |
| Address Line 4: | Seattle, WASHINGTON 98111-1247 | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | 61240.8015 US02 | | | | | | | | | | |
| NAME OF SUBMITTER: | Stephen C. Bishop | | | | | | | | | | |

OP \$40.00 11571468

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

Total Attachments: 12

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EXHIBIT I-1

ASSIGNMENT

Waltical Solutions, Inc., a corporation organized under and pursuant to the laws of Washington, having its principal place of business at 1750 112th Avenue NE, Suite D 159; Bellevue, Washington 98004 (hereinafter referred to as "Assignor"), is the sole and exclusive owner, by assignment, of the Patent Applications listed in Schedule A; and

Neocific, Inc., a corporation organized under and pursuant to the laws of Delaware, having its principal place of business at 13312 SE 43rd Street, Bellevue, Washington 98006 (hereinafter referred to as "Assignee"), desires to acquire the right, title and interest in, to and under said Patent Applications and the inventions covered thereby;

For valuable consideration, the receipt and sufficiency of which Assignor acknowledges, Assignor hereby sells, assigns, and transfers to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to said applications for all original, divisional, continuation, continuation-in-part, substitute or reissue applications and patents applied for or granted therefore in the United States of America and all other countries on the attached list of *Schedule A*, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on *Schedule A* to said assignee herein, as assignee of the entire interest therein; and the undersigned for itself and its legal representatives, heirs and assigns does hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, continuation-in-part, reissue and other applications for Letters Patent and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said inventions listed on *Schedule A* whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said inventions listed on *Schedule A* in the United States of America and all other countries, the expenses incident to said applications listed on *Schedule A* to be borne and paid by said assignee.

SCHEDULE A

| Application Number (Patent Number) | Filing Date | Inventor | Title | Ctry |
|------------------------------------|----------------|--|---|------|
| US05/01939 | Jan. 20, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER, MULTI-CELL WIRELESS COMMUNICATION NETWORKS | PCT |
| US05/04601 | Feb. 14, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS SYSTEMS WITH ADAPTIVE TRANSMISSION AND FEEDBACK | PCT |
| US05/03889 | Feb. 7, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS SYSTEMS WITH AUTOMATIC REPEAT REQUEST (ARQ) | PCT |
| 10/456,654 | June 5, 2003 | Titus Lo | ADAPTIVE COMMUNICATIONS SYSTEM AND METHOD | US |
| 10/360,007 | Feb. 7, 2003 | Wen-Ping Ying | PROTECTING INFORMATION TRANSMISSIONS VIA ENCRYPTION, SUCH AS WITH KEY HOPPING TECHNIQUES IN AN 802.11 WIRELESS NETWORK | US |
| US05/03518 | Jan. 27, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR OVERLAYING MULTI-CARRIER AND DIRECT SEQUENCE SPREAD SPECTRUM SIGNALS IN A BROADBAND WIRELESS COMMUNICATION SYSTEM | PCT |
| US05/08169 | March 9, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHOD AND APPARATUS FOR RANDOM ACCESS IN MULTI-CARRIER COMMUNICATION SYSTEMS | PCT |
| US05/14828 | April 29, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS WITH VARIABLE CHANNEL BANDWIDTH | PCT |
| US05/14835 | April 29, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR COMMUNICATION SYSTEM WITH TIME-DIVISION DUPLEXING | PCT |
| US05/23399 | June 29, 2005 | Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang, Jun Meng | METHODS AND APPARATUS FOR POWER CONTROL IN MULTI-CARRIER SYSTEMS | PCT |
| 60/665,184 | Mar. 25, 2005 | Haiming Huang, Xiaodong Li, Titus Lo, Kemin Li | METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION SYSTEM | US |

| | | | | |
|------------|----------------|--|--|----|
| 60/665,205 | Mar. 25, 2005 | Haiming Huang, Xiaodong Li, Titus Lo, Kemin Li | METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA NETWORKS | US |
| 60/688,937 | June 9, 2005 | Haiming Huang, Xiaodong Li, Titus Lo, Kemin Li | METHODS AND APPARATUS FOR A POWER EFFICIENT BROADCASTING AND COMMUNICATION SYSTEM | US |
| 60/704,141 | July 29, 2005 | Titus Lo, Xiaodong Li, Kemin Li, Haiming Huang | METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS USING NON-UNIFORM SYMBOL STRUCTURES | US |
| 60/721,451 | Sept. 28, 2005 | Xiaodong Li, Haiming Huang, Titus Lo, Ruiheng Wang | METHOD AND APPARATUS FOR MULTI-CARRIER PACKET COMMUNICATION WITH REDUCED OVERHEAD | US |

Waltical Solutions, Inc.

By: [Signature]

Name: XIAODONG LI

Title: PRESIDENT

Date: December 14, 2005

United States of America)
State of Washington) ss.:
County of King)

On this 14th day of December, 2005, before me personally came Xiaodong Li, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

[Signature]
Notary Public
my comm. exp. December 10, 2008

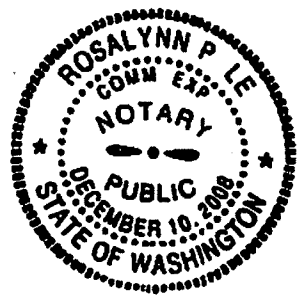


EXHIBIT I-2

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

**UNITED STATES PATENT AND
TRADEMARK OFFICE****Facsimile Transmission**

To: **Name:** STEPHANIE OLSON
 Company: PO BOX 1247
 Fax Number: 12063599219
 Voice Phone:

From: **Name:** ASSIGNMENT SERVICES BRANCH
 Voice Phone: 571-272-3350

37 C.F.R. 1.6 sets forth the types of correspondence that can be communicated to the Patent and Trademark Office via facsimile transmissions. Applicants are advised to use the certificate of facsimile transmission procedures when submitting a reply to a non-final or final Office action by facsimile (37 CFR 1.8(a)).

Fax Notes:

| Pg# | Description |
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| 2 | 149.TXT |
| 4 | Document 1, Batch 1843194 |

USPTO ASSIGNMENT SYSTEM PROCESSING

Date and time of transmission: Tuesday, November 10, 2009 9:47:46 AM
Number of pages including this cover sheet: 04

PATENT
REEL: 027107 FRAME: 0291

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

**UNITED STATES PATENT AND TRADEMARK OFFICE**UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

501010596

NOVEMBER 09, 2009

PTAS

STEPHANIE OLSON
PO BOX 1247
SEA-PAT
SEATTLE, WA 98111-1247UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENTTHE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF
THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS
AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER
REFERENCED BELOW.PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE
INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA
PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD
FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY
CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350.
PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE,
MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 11/09/2009

REEL/FRAME: 023492/0371
NUMBER OF PAGES: 5BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: 61240.8016 US01

ASSIGNOR:

WALTICAL SOLUTIONS, INC.

DOC DATE: 12/14/2005

ASSIGNEE:

NEOCIFIC, INC.
13312 SE 43RD STREET
BELLEVUE, WASHINGTON 98006

SERIAL NUMBER: 11571469

FILING DATE: 10/09/2008

PATENT NUMBER:

ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR POWER EFFICIENT BROADCASTING AND
COMMUNICATION SYSTEMS

USPTO

11/10/2009 9:47:57 AM PAGE 3/004 Fax Server

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

023492/0371 PAGE 2

ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

PATENT
REEL: 027107 FRAME: 0293

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

11/09/2009
501010586

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------------|----------------|
| Waitical Solutions, Inc. | 12/14/2005 |

RECEIVING PARTY DATA

| | |
|------------------------|----------------------|
| Name: | Neocfic, Inc. |
| Street Address: | 13312 SE 43rd Street |
| City: | Bellevue |
| State/Country: | WASHINGTON |
| Postal Code: | 98006 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|----------------------------|----------|
| Application Number: | 11571469 |

CORRESPONDENCE DATA

Fax Number: (206)359-9219
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Email: scolson@perkinscoie.com
 Correspondent Name: Stephanie Olson
 Address Line 1: PO Box 1247
 Address Line 2: SEA-PAT
 Address Line 4: Seattle, WASHINGTON 98111-1247

| | |
|--------------------------------|-------------------|
| ATTORNEY DOCKET NUMBER: | 61240.8016 US01 |
| NAME OF SUBMITTER: | Stephen C. Bishop |

Total Attachments: 4
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OP \$40.00 11571469

EXHIBIT I-3

ASSIGNMENT BY INVENTORS

This Assignment is by Xiaodong Li; Titus Lo; Haiming Huang; and Kemin Li (the "Assignors"), residing at 9919 129th PL NE, Kirkland, Washington 98033; 13312 SE 43rd ST, Bellevue, Washington 98006; 605 141st CT SE #D203, Bellevue, Washington 98007; and 4228 144th LN SE, Bellevue, 98006, respectively. The Assignors have invented one or more certain inventions (the "Invention(s)") described in a Patent application for Letters Patent of the United States entitled METHODS AND APPARATUS FOR A POWER EFFICIENT BROADCASTING AND COMMUNICATION SYSTEM (the "Application"), executed concurrently herewith and naming the Assignors as inventors. The Assignors authorize the Assignee, identified below, or its representatives to insert the application number of the Application 60/688,937 when known.

Waltical Solution, Inc. (formerly Walbell Technologies, Inc.), a corporation of Washington having its principal place of business at Suite D159, 1750 112th Ave. NE, Bellevue, Washington 98004 ("Assignee"), desires to acquire the entire right, title and interest in and to the Invention(s) and the Application, and in and to any patents (collectively, "Patents") that may be granted for the Invention(s) in the United States or in any foreign countries.

For valuable consideration, the receipt and sufficiency of which Assignors acknowledge, Assignors hereby sell, assign, and transfer to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to: the Invention(s), the Application, and any Patents; any divisions, continuations, and continuations-in-part of the Application and any other application claiming priority rights from the Application; any reissues, reexaminations, or extensions of any and all Patents; the right to file foreign applications directly in the name of Assignee; and the right to claim priority rights deriving from the Application (collectively, the "Rights"). Assignors warrant that Assignors own the Rights, and that the Rights are unencumbered. Assignors also agree to not sign any writing or do any act conflicting

with this assignment, and, without further compensation, sign all documents and do such additional acts as Assignee deems necessary or desirable to: perfect Assignee's enjoyment of the Rights; conduct proceedings regarding the Rights, including any litigation or interference proceedings; or perfect or defend title to the Rights. Assignors request the Commissioner of Patents to issue any Patent of the United States that may be issued on the Invention(s) to Assignee. This Assignment may be executed in counterparts.

Xiaodong Li

Xiaodong Li

Date: 10/6/2005

United States of America
State of WA) ss.:
County of King)

On this 6th day of October, 2005, before me personally came Xiaodong Li, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Bobby H. Ratty

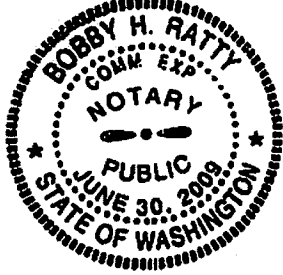
Notary Public

[Signature]
Titus Lo

Date: 10/6/05

United States of America)
State of WA) ss.:
County of King)

On this 6th day of October, 2005, before me personally came Titus Lo, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



[Signature]
Notary Public

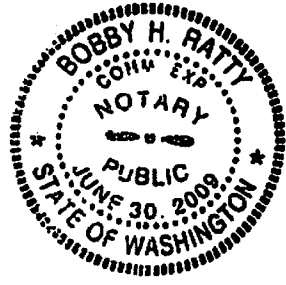
[Handwritten Signature]

Haiming Huang

Date: 10/6/2005

United States of America)
State of WA) ss.:
County of King)

On this 6th day of October, 2005, before me personally came Haiming Huang, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



[Handwritten Signature]

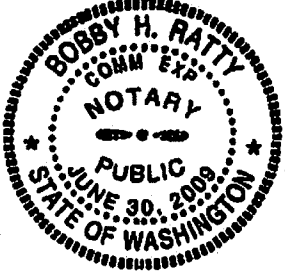
Notary Public

Li
Kemin Li

Date: 10/06/2005

United States of America
State of WA) ss.:
County of King)

On this 6th day of October, 2005, before me personally came Kemin Li, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



[Signature]
Notary Public

EXHIBIT I-4

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

**UNITED STATES PATENT AND TRADEMARK OFFICE**UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

NOVEMBER 09, 2009

501010580A

PTAS

STEPHANIE OLSON
PO BOX 1247
SEA-PAT
SEATTLE, WA 98111-1247UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 11/09/2009

REEL/FRAME: 023492/0350
NUMBER OF PAGES: 8BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: 61240.8016 US01

ASSIGNOR:

LI, XIAODONG

DOC DATE: 10/06/2005

ASSIGNOR:

LO, TITUS

DOC DATE: 10/06/2005

ASSIGNOR:

HUANG, HAIMING

DOC DATE: 10/06/2005

ASSIGNOR:

LI, KEMIN

DOC DATE: 10/06/2005

ASSIGNEE:

WALTICAL SOLUTION, INC.
1750 112TH AVE. NE
SUITE D159
BELLEVUE, WASHINGTON 98004

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

023492/0350 PAGE 2

SERIAL NUMBER: 11571469

FILING DATE: 10/09/2008

PATENT NUMBER:

ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR POWER EFFICIENT BROADCASTING AND
COMMUNICATION SYSTEMS

ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.111/09/2009
501010580

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | | | |
|--|--------------------------------|---------------|------------------------|---------------------|--------------------|-------------------|------------|---------------|------------|----------------|------------|--------------|-------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Xiaodong LI</td> <td>10/08/2005</td> </tr> <tr> <td>Titus Lo</td> <td>10/08/2005</td> </tr> <tr> <td>Haiming Huang</td> <td>10/08/2005</td> </tr> <tr> <td>Kemin LI</td> <td>10/08/2005</td> </tr> </tbody> </table> | | Name | Execution Date | Xiaodong LI | 10/08/2005 | Titus Lo | 10/08/2005 | Haiming Huang | 10/08/2005 | Kemin LI | 10/08/2005 | | |
| Name | Execution Date | | | | | | | | | | | | |
| Xiaodong LI | 10/08/2005 | | | | | | | | | | | | |
| Titus Lo | 10/08/2005 | | | | | | | | | | | | |
| Haiming Huang | 10/08/2005 | | | | | | | | | | | | |
| Kemin LI | 10/08/2005 | | | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>Name:</td> <td>Wattical Soluton, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>1750 112th Ave. NE</td> </tr> <tr> <td>Internal Address:</td> <td>Suite D159</td> </tr> <tr> <td>City:</td> <td>Bellevue</td> </tr> <tr> <td>State/Country:</td> <td>WASHINGTON</td> </tr> <tr> <td>Postal Code:</td> <td>98004</td> </tr> </table> | | Name: | Wattical Soluton, Inc. | Street Address: | 1750 112th Ave. NE | Internal Address: | Suite D159 | City: | Bellevue | State/Country: | WASHINGTON | Postal Code: | 98004 |
| Name: | Wattical Soluton, Inc. | | | | | | | | | | | | |
| Street Address: | 1750 112th Ave. NE | | | | | | | | | | | | |
| Internal Address: | Suite D159 | | | | | | | | | | | | |
| City: | Bellevue | | | | | | | | | | | | |
| State/Country: | WASHINGTON | | | | | | | | | | | | |
| Postal Code: | 98004 | | | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11571469</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 11571469 | | | | | | | | |
| Property Type | Number | | | | | | | | | | | | |
| Application Number: | 11571469 | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | |
| Fax Number: | (208)359-9219 | | | | | | | | | | | | |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> | | | | | | | | | | | | | |
| Email: | solson@perkinscoie.com | | | | | | | | | | | | |
| Correspondent Name: | Stephanie Olson | | | | | | | | | | | | |
| Address Line 1: | PO Box 1247 | | | | | | | | | | | | |
| Address Line 2: | SEA-PAT | | | | | | | | | | | | |
| Address Line 4: | Seattle, WASHINGTON 98111-1247 | | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | 61240.8016 US01 | | | | | | | | | | | | |
| NAME OF SUBMITTER: | Stephen C. Bishop | | | | | | | | | | | | |

OP \$40.00 11571469

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

Total Attachments: 6

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WALTICAL SOLUTIONS, INC.

UBI Number 602340455
Category REG
Profit/Nonprofit Profit
Active/Inactive Active
State of Incorporation WA
WA Filing Date 11/07/2003
Expiration Date 11/30/2011
Inactive Date

Registered Agent Information

Agent Name TITUS LO
Address 13312 SE 43RD ST
City BELLEVUE
State WA
ZIP 98006

Special Address Information

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