

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4937264

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 SOLUTIONS, 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:	14066597
CORRESPONDENCE DATA	
Fax Number:	(202)408-4400
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	2024084000
Email:	regional-desk@finnegan.com
Correspondent Name:	FINNEGAN
Address Line 1:	901 NEW YORK AVENUE NW
Address Line 4:	WASHINGTON, D.C. 20001
ATTORNEY DOCKET NUMBER:	12975.0034-00000
NAME OF SUBMITTER:	CHEN ZANG
SIGNATURE:	/Chen Zang/
DATE SIGNED:	04/28/2018
Total Attachments: 195	
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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.

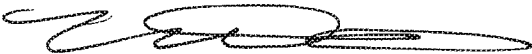
3. I was previously Vice President of Engineering and Operations at WALTICAL SOLUTIONS, INC. Through my work at WALTICAL SOLUTIONS, INC., I have first-hand knowledge of the patents and applications owned by WALTICAL SOLUTIONS, INC. In 2005, a portion of the assets of WALTICAL SOLUTIONS, INC. were transferred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

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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):

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:

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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 (ARO)	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]

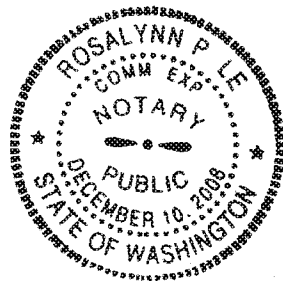
Name: XIAODONG LI

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

EXHIBIT A2



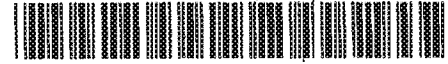
UNITED STATES PATENT AND TRADEMARK OFFICE

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

42938 8004US1
ATA/LH
8010W0 8005US3
8003W0 8015US
8011W0 8001W0
8006W0 8008W0
8012W0
8002W0

MARCH 25, 2006

PTAS



103141387A

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

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PATENT DOCKETING

APR 07 2006

PERKINS COIE LLP

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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. 6/2)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):

Waitical Solutions, Inc.

Additional name(s) of conveying party(ies) 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

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

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)

12/20/2005 ELDOPER 00000048 PCT/US05/01939
01 FC:8021 600.00 00PATENT
REEL: 026005 FRAME: 0522

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

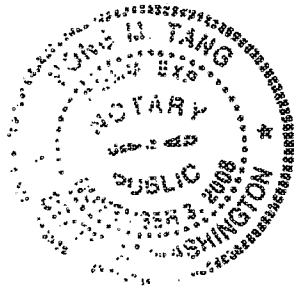
with this assignment, and, without further compensation, sign all documents and do such additional acts as Assignee deems necessary or desirable to: perfect Assignee's enjoyment of the Rights; conduct proceedings regarding the Rights, including any litigation or interference proceedings; or perfect or 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 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.



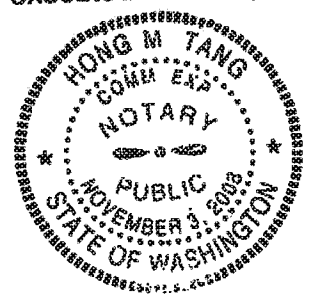
[Signature]
Notary Public

[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

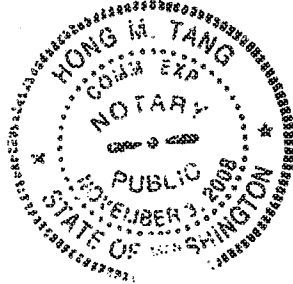
Haiming Huang

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.



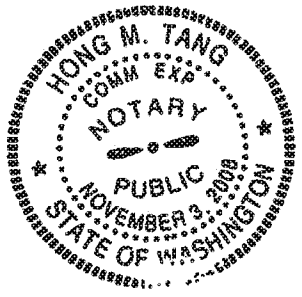
Hong M. Tang
Notary Public

[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.



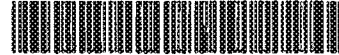
[Signature]
Notary Public

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

NOVEMBER 06, 2009

5010080234

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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: 11/05/2009

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

11/05/2009

Stylesheet Version v1.1

501008023

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>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"><tr><td>Name:</td><td>Waltical Solution, Inc.</td></tr><tr><td>Street Address:</td><td>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:	112th Ave. NE	Internal Address:	Suite D159	City:	Bellevue	State/Country:	WASHINGTON	Postal Code:	98004
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													
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>10583529</td></tr></tbody></table>		Property Type	Number	Application Number:	10583529								
Property Type	Number												
Application Number:	10583529												
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:	61240.8002 US01												
NAME OF SUBMITTER:	Stephen C. Bishop												

OP 540.00 10583529

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

Total Attachments: 6

source=61240.8002 US01 Exec Assignment Inventors to Wallica#page1.tif

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source=61240.8002 US01 Exec Assignment Inventors to Wallica#page6.tif

EXHIBIT B1

42938-800US

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?

☐ 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)

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, Kernin Li	METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA NETWORKS	US
60/688,937	June 9, 2005	Haiming Huang, Xiaodong Li, Titus Lo, Kernin Li	METHODS AND APPARATUS FOR A POWER EFFICIENT BROADCASTING AND COMMUNICATION SYSTEM	US
60/704,141	July 29, 2005	Titus Lo, Xiaodong Li, Kernin 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]

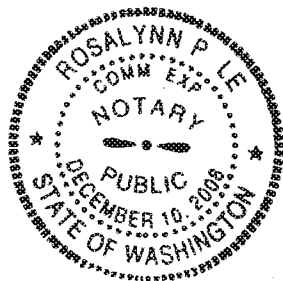
Name: XIADDONG LI

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 P. Lee
Notary Public

my comm. exp. December 10, 2008

EXHIBIT B2



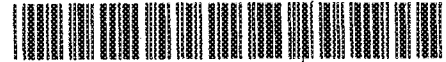
UNITED STATES PATENT AND TRADEMARK OFFICE

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

42938 8004 us1
ATA 164
8010W0 8005 us3
8003W0 8015 us
8011W0 8001 W0
8006W0 8008W0
8012W0
8002 us0

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

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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

12-21-2005

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) ☐ Yes ☒ No
attached:

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)

12/20/2005 EDDOPER 00000048 PCT/US05/01939
01 FC:8021 600.00 DPPATENT
REEL: 026005 FRAME: 0396

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.



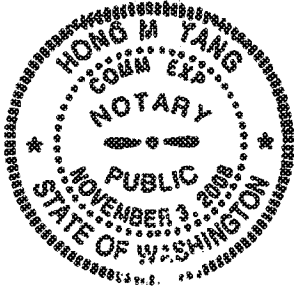
S. M. Tang
Notary Public

Titus Lo
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.



Hong M Yang
Notary Public

Huang, Haiming

Haiming Huang

Date: April 5, 2005

United States of America

State of

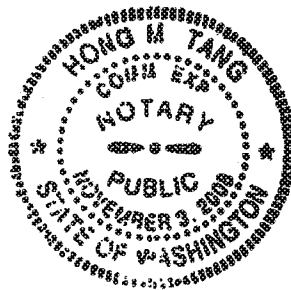
County of

Washington

ss.:

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

PATENT

REEL: 026005 FRAME: 0001

[Signature]

Kemin Li

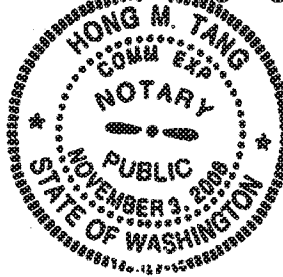
Date: Apr 8 2005

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

PATENT

REEL: 026005 FRAME: 0002

EXHIBIT B4

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

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

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

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

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Number of pages including this cover sheet: 05

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

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OCTOBER 29, 2008

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PO BOX 1247
SEA-PAT
SEATTLE, WA 98111-1247UNITED STATES PATENT AND TRADEMARK OFFICE
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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 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"><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>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"><tr><td>Name:</td><td>Waitical 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:	Waitical Solution, Inc.	Street Address:	1750 112th Ave. NE	Internal Address:	Suite D159	City:	Bellevue	State/Country:	WASHINGTON	Postal Code:	98004
Name:	Waitical 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													
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:	81240.8003 US01												
NAME OF SUBMITTER:	Stephen C. Bishop												

CP \$40.00 US0503889

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

Total Attachments: 13

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source=ExecutedAssignmentFromInventors#page6.tif



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The coversheet of the assignment is displayed below:

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT												
NATURE OF CONVEYANCE:	Corrective Assignment to correct the Assignor: Li, Xiaodong 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"><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>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"><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													
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:	61240.8003 US01
NAME OF SUBMITTER:	Stephen C. Bishop
Signature:	/SCB/
Date:	10/29/2008
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	
RECEIPT INFORMATION EPAS ID: PAT704840 Receipt Date: 10/29/2008 Fee Amount: \$40	

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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:

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

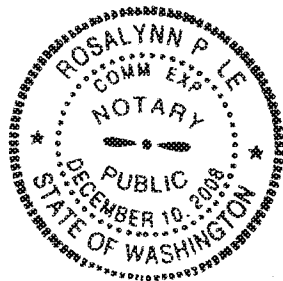
Date: December 14, 2005

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]
Notary Public

my comm. exp. December 10, 2008

EXHIBIT C2



UNITED STATES PATENT AND TRADEMARK OFFICE

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

42938 8004US1
ATA 164
8010W0 8005US3
8003W0 8015US
8011W0 8001W0
8006W0 8008W0
8012W0
8002W0

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. 07/03)
OMB No. 0651-0027 (exp. 6/04)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:

Additional name(s) of conveying party(ies) 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

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

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)

12/20/2005 ECDOPER 00000048 PCT/US05/01939
01 FC:8021 600.00 DPPATENT
REEL: 026005 FRAME: 0621

EXHIBIT C3

04/08/2005

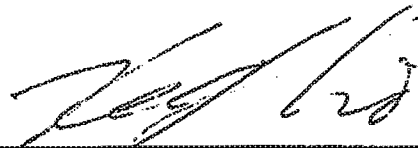
ASSIGNMENT BY INVENTORS

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 US05/038,188 when known.

Wallical 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.

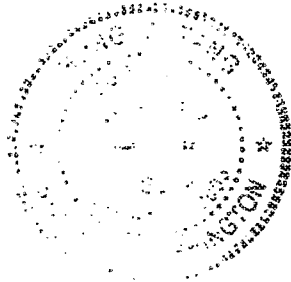



Xiaodong Li

Date: 24 / 08 / 2025

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

On this 8th day of April, 2025, 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.




Notary Public

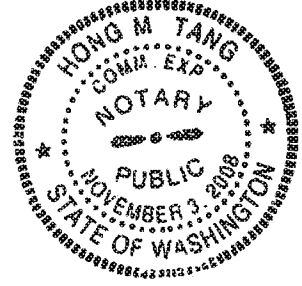
Titus Lo

Titus Lo

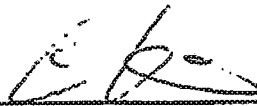
Date: Apr. 8, 2005

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.



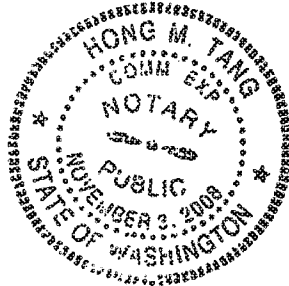
Hong M. Tang
Notary Public


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.



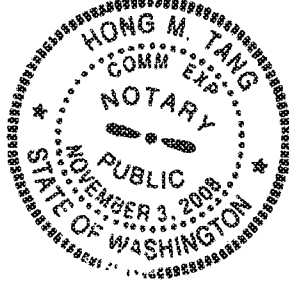

Notary Public

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

NOVEMBER 09, 2009

5010089904

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: 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: 10563229

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 v1.111/09/2009
501009990

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													
<table border="1"><tr><td>Name:</td><td>Walical 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:	Walical Solution, Inc.	Street Address:	1750 112th Ave. NE	Internal Address:	Suite D159	City:	Bellevue	State/Country:	WASHINGTON	Postal Code:	98004
Name:	Walical 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>10583229</td></tr></tbody></table>		Property Type	Number	Application Number:	10583229								
Property Type	Number												
Application Number:	10583229												
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:	61240.8006 US01												
NAME OF SUBMITTER:	Stephen C. Bishop												

CP 549.00 10583229

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

Total Attachments: 6

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source=61240.8006 US01 Exec Assignment Inventors to Wallicall#page6.tif

EXHIBIT D1

42938-800US

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.

2. Name and address of receiving party(ies)

Name: Neocific, Inc.

Internal Address: _____

Street Address: _____

Additional name(s) of conveying party(ies) 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 _____

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
60/865,184 60/665,205
US05/23399 60/704,141 60/721,451
60/688,937

☐ This document is being filed together with a new application.

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)

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]

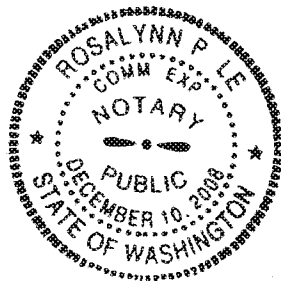
Name: XIAODONG LI

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 D2



UNITED STATES PATENT AND TRADEMARK OFFICE

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

42938 8004 us1
ATA 164
8010W0 8005 us3
8003W0 8015 us
8011W0 8001 W0
8006W0 8008W0
8012W0
8002 W0

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. 6/2)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

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

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

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)

12/20/2005 ECDOPER 00000048 PCT/US05/01939
01 FC:8021 600.00 00PATENT
REEL: 026005 FRAME: 0004

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 US05/081669 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

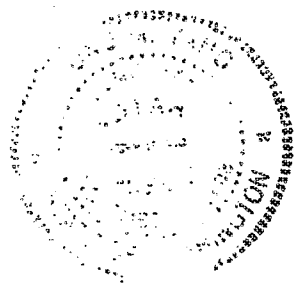
with this assignment, and, without further compensation, sign all documents and do such additional acts as Assignee deems necessary or desirable to: perfect Assignee's enjoyment of the Rights; conduct proceedings regarding the Rights, including any litigation or interference proceedings; or perfect or 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.



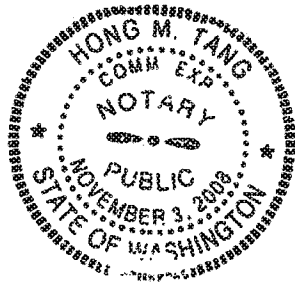
Harry Tang
Notary Public

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.



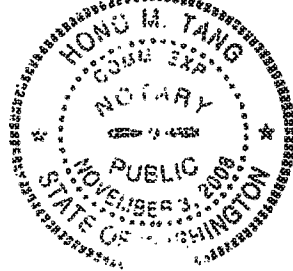
Hong M. Tang
Notary Public

[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.



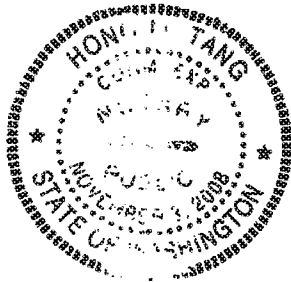
[Signature]
Notary Public

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 98111-1247UNITED 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: 023491/0649

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													
<table border="1"><tr><td>Name:</td><td>Waitcal 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:	Waitcal Solution, Inc.	Street Address:	1750 112th Ave. NE	Internal Address:	Suite D159	City:	Bellevue	State/Country:	WASHINGTON	Postal Code:	98004
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: (208)358-8219 <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:	81240.8008 US01												
NAME OF SUBMITTER:	Stephen C. Bishop												

CP 540 00 10583158

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

Total Attachments: 8

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

source=61240.8008 US01 Exec Assignment Inventors to Waitica#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:

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: 12/15/05

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

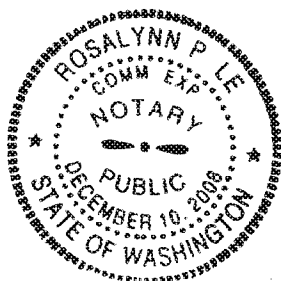
Waltical Solutions, Inc.

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] / Rosalynn Le
Notary Public

my comm. exp. December 10, 2008

EXHIBIT E2



UNITED STATES PATENT AND TRADEMARK OFFICE

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

42938 8004 US1
ATA 164
8010W0 8005 US3
8003W0 8015 US
8011W0 8001 W0
8006W0 8008W0
8012W0
8002 W0

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

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 ☒ NoAdditional name(s) of conveying party(ies) 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?

☐ 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)

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)

12/20/2005 EUSOPER 00000048 PCT/US05/01939
01 FC:8021 600.00 DPPATENT
REEL: 026005 FRAME: 0668

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

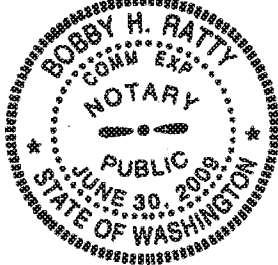
State of

County of

WA
King

ss.:

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.



Notary Public

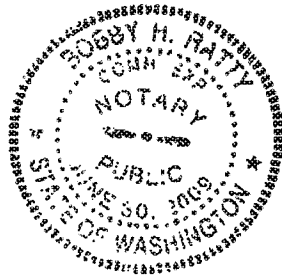
Bobby H. Ratty

[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.



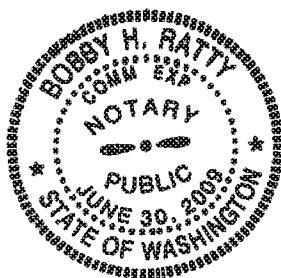
[Signature]
Notary Public

L. 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.



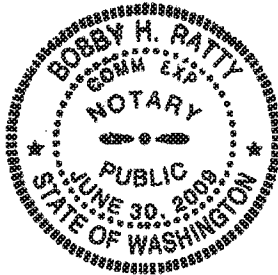
B. Ratty
Notary Public


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.



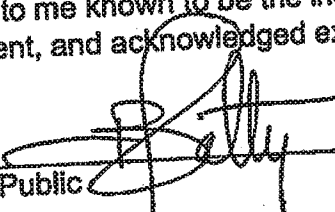

Notary Public

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
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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RECORDATION DATE: 09/01/2009

REEL/FRAME: 023175/0461

NUMBER OF PAGES: 8

BRIEF: 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: 11568395

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

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.109/01/2009
500951263

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>10/06/2005</td></tr><tr><td>Titus Lo</td><td>10/06/2005</td></tr><tr><td>Kemin Li</td><td>10/06/2005</td></tr><tr><td>Haiming Huang</td><td>10/06/2005</td></tr></tbody></table>		Name	Execution Date	Xiaodong Li	10/06/2005	Titus Lo	10/06/2005	Kemin Li	10/06/2005	Haiming Huang	10/06/2005		
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													
<table border="1"><tr><td>Name:</td><td>Waitcal 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:	Waitcal Solution, Inc.	Street Address:	1750 112th Ave. NE	Internal Address:	Suite D159	City:	Bellevue	State/Country:	WASHINGTON	Postal Code:	98004
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>11568385</td></tr></tbody></table>		Property Type	Number	Application Number:	11568385								
Property Type	Number												
Application Number:	11568385												
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:	61240.8011 US01												
NAME OF SUBMITTER:	Stephen C. Bishop												

OP \$40.00 11568385

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

Total Attachments: 6

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source=812408011_Assignment_Inventors_Waitcal#page5.tif

source=812408011_Assignment_Inventors_Waitcal#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
60/668,937 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)

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

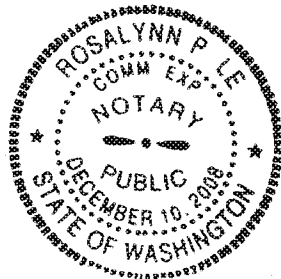
Waltical Solutions, Inc.

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

EXHIBIT F2



UNITED STATES PATENT AND TRADEMARK OFFICE

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

42938 8004 US1
ATA 164
8010W0 8005 US3
8003W0 8015 US
8011W0 8001 W0
8006W0 8008W0
8012W0
8002 W0

MARCH 25, 2006

PTAS

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

RECEIVED
PATENT DOCKETING

APR 07 2006

PERKINS COIE LLP



103141387A

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

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:

Additional name(s) of conveying party(ies) 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

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

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

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)

City: Seattle

State: WA Zip: 98111-1247

Phone Number: (206) 359-8000

Fax Number: (206) 359-9000

Email Address:

8. Payment Information

a. Credit Card Last 4 Numbers
Expiration Dateb. 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

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Dated:

12/16/05

Signature:

(Peter Sher)

12/20/2005 ELDOPER 00000048 PCT/US05/01939
01 FC:8021 600.00 (P)PATENT
REEL: 026005 FRAME: 0600

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 US 05/23399 when known.

Wallical 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

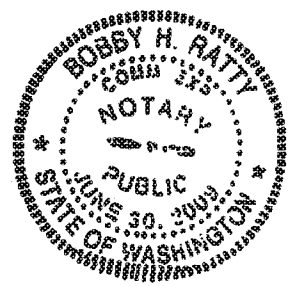
with this assignment, and, without further compensation, sign all documents and do such additional acts as Assignee deems necessary or desirable to: perfect Assignee's enjoyment of the Rights; conduct proceedings regarding the Rights, including any litigation or interference proceedings; or perfect or 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.



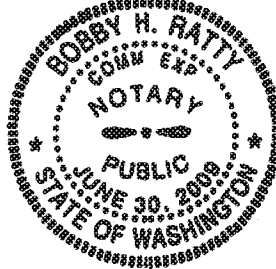
[Signature]
Notary Public

[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.



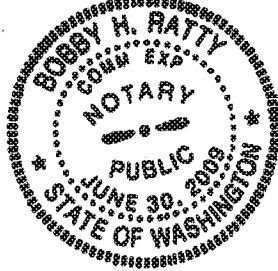
[Signature]
Notary Public

[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.



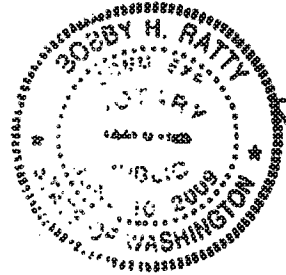
[Signature]
Notary Public

[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

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.



[Signature]
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

NOVEMBER 09, 2009

501010311A

PTAS

STEPHANIE OLSON
PO BOX 1247
SEA-PAT
SEATTLE, WA 98111-1247UNITED STATES PATENT AND TRADEMARK OFFICE
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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 v1.111/09/2009
501010311

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
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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													
<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>Application Number:</td><td>11569084</td></tr></tbody></table>		Property Type	Number	Application Number:	11569084								
Property Type	Number												
Application Number:	11569084												
CORRESPONDENCE DATA													
Fax Number: (206)350-0219 <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:	81240.8012 US01												
NAME OF SUBMITTER:	Stephen C. Bishop												

OP 540 00 11569084

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

Total Attachments: 7

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source=61240.8012 US01 Exec Assignment Inventors to Waitical#page6.tif

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EXHIBIT H1

ASSIGNMENT

Waitical 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
US05/03888	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
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60/721,451	Sept. 28, 2005	Xiaodong Li, Haiming Huang, Tilus Lo, Ruiteng Wang	METHOD AND APPARATUS FOR MULTI-CARRIER PACKET COMMUNICATION WITH REDUCED OVERHEAD	US

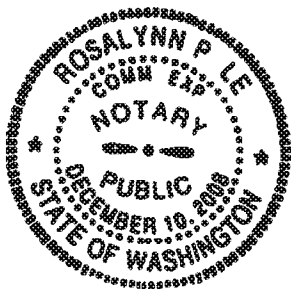
Wallical Solutions, Inc.

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
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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

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 98111-1247**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: 023492/0200

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

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023492/0200 PAGE 2

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PUBLIC RECORDS DIVISION

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PATENT ASSIGNMENT

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

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Waitical Solutions, Inc.	12/14/2005
RECEIVING PARTY DATA	
Name:	Neocific, Inc.
Street Address:	13312 SE 43rd Street
City:	Bellevue
State/Country:	WASHINGTON
Postal Code:	98006
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	11571488
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:	81240.8015 US02
NAME OF SUBMITTER:	Stephen C. Bishop
Total Attachments: 4 source=81240.8000 Exec Assignment Waitical to Neocific#page1.tif source=81240.8000 Exec Assignment Waitical to Neocific#page2.tif source=81240.8000 Exec Assignment Waitical to Neocific#page3.tif source=81240.8000 Exec Assignment Waitical to Neocific#page4.tif	

OP \$40.00 11571488

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

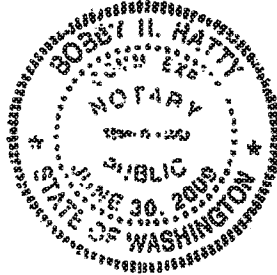
United States of America

State of

County of

WA) ss.:
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

PATENT

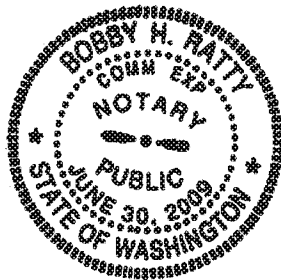
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[Signature]
Titus Lo

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.



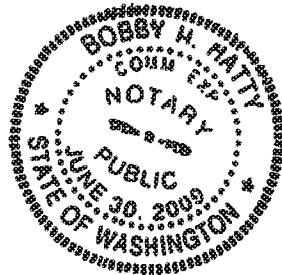
[Signature]
Notary Public

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.



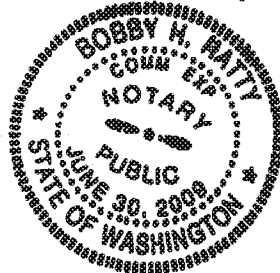
Batty
Notary Public

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.



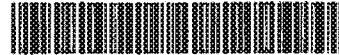
Bobby H. Ratty
Notary Public

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

NOVEMBER 09, 2009

501010539

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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: 023492/0172
NUMBER OF PAGES: 14BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: 61240.8015 US02ASSIGNOR:
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

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
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Xiaodong LI	10/08/2005												
Titus Lo	10/08/2005												
Haiming Huang	10/08/2005												
Kamin LI	10/08/2005												
RECEIVING PARTY DATA													
<table border="1"><tr><td>Name:</td><td>Wellcal 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:	Wellcal Solution, Inc.	Street Address:	1750 112th Ave NE	Internal Address:	Suite D159	City:	Bellevue	State/Country:	WASHINGTON	Postal Code:	98004
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Internal Address:	Suite D159												
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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:	61240.8016 US02												
NAME OF SUBMITTER:	Stephen C. Bishop												

OP 549.00 11571468

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

Total Attachments: 12

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EXHIBIT I-1

ASSIGNMENT

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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
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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
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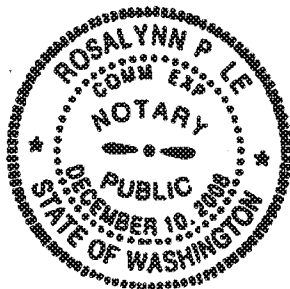
Waitical Solutions, Inc.

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] / Rosalynn Le
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

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Fax Notes:

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2	149.TXT
4	Document 1, Batch 1843194

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Number of pages including this cover sheet: 04

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NOVEMBER 09, 2009

501010586

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SEA-PAT
SEATTLE, WA 98111-1247UNITED STATES PATENT AND TRADEMARK OFFICE
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RECORDATION DATE: 11/09/2009

REEL/FRAME: 023492/0371

NUMBER OF PAGES: 5

BRIEF: 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

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023492/0371 PAGE 2

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PUBLIC RECORDS DIVISION

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.111/09/2009
501010586

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Waitical 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	
Property Type	Number
Application Number:	11571469
CORRESPONDENCE DATA	
Fax Number:	(206)359-9210
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Email:	solson@perkinacole.com
Correspondant 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 source=61240.8000 Exec Assignment Waitical to Neocific#page1.tif source=61240.8000 Exec Assignment Waitical to Neocific#page2.tif source=61240.8000 Exec Assignment Waitical to Neocific#page3.tif source=61240.8000 Exec Assignment Waitical to Neocific#page4.tif	

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

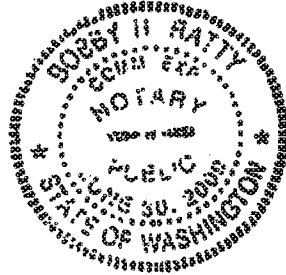
United States of America

State of

County of

WA) ss.:
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.



Notary Public

Bobby H. Ratty

PATENT

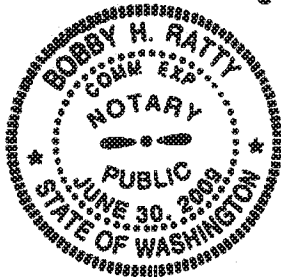
REEL: 026005 FRAME: 0790

[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

Haiming Huang

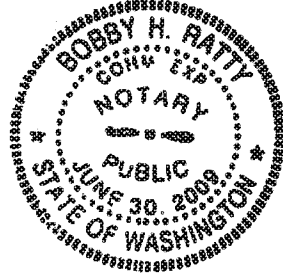
Date: 10/6/2005

United States of America

State of King) 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.



Notary Public

PATENT

REEL: 026005 FRAME: 0701

Li
Kemin Li

Date: 10/06/2005

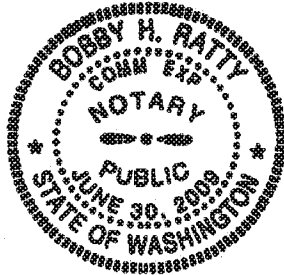
United States of America

State of

County of

WA) ss.:
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.



B. Ratty
Notary Public

EXHIBIT I-4

TO:STEPHANIE OLSON COMPANY:PO BOX 1247



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NOVEMBER 09, 2009

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SEATTLE, WA 98111-1247UNITED STATES PATENT AND TRADEMARK OFFICE
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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													
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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>Watical 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:	Watical Solution, Inc.	Street Address:	1750 112th Ave. NE	Internal Address:	Suite D159	City:	Bellevue	State/Country:	WASHINGTON	Postal Code:	98004
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													
<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@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:	61240.8018 US01												
NAME OF SUBMITTER:	Stephen C. Bishop												

OP \$40.00 11571469

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Total Attachments: 6

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EXHIBIT J

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WALTICAL SOLUTIONS, INC.**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

Address
City
State
Zip

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ACKNOWLEDGEMENT OF ASSIGNMENTS BY INVENTORS

Whereas in 2005, XIAODONG LI ("Inventor") executed certain assignments titled "Assignment By Inventors," whereby Inventor assigned certain intellectual property assets to Waltical Solutions, Inc. (formerly Walbell Technologies, Inc.) then located at Suite D159, 1750 112th Ave. NE, Bellevue, Washington 98004.

Whereas each assignment inadvertently misspelt the assignee's name: Waltical Solutions, Inc. is wrongly identified in the assignments as Waltical Solution, Inc. instead of Waltical Solutions, Inc. The omission of the "s" was a typographical error.

Inventor hereby acknowledges that the intended assignee was Waltical Solutions, Inc., and that inventor understood each assignment as effectively assigning the identified assets to Waltical Solutions, Inc. at the time inventor executed the assignments.

By (Signature): 

Name (Print): XIAODONG LI

Date: 2/7/2018

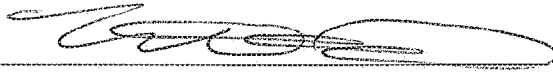
ACKNOWLEDGEMENT OF ASSIGNMENTS BY INVENTORS

Whereas in 2005, TITUS LO ("Inventor") executed certain assignments titled "Assignment By Inventors," whereby Inventor assigned certain intellectual property assets to Waltical Solutions, Inc. (formerly Walbell Technologies, Inc.) then located at Suite D159, 1750 112th Ave. NE, Bellevue, Washington 98004.

Whereas each assignment inadvertently misspelt the assignee's name: Waltical Solutions, Inc. is wrongly identified in the assignments as Waltical Solution, Inc. instead of Waltical Solutions, Inc. The omission of the "s" was a typographical error.

Inventor hereby acknowledges that the intended assignee was Waltical Solutions, Inc., and that Inventor understood each assignment as effectively assigning the identified assets to Waltical Solutions, Inc. at the time Inventor executed the assignments.

By (Signature):



Name (Print):

TITUS LO

Date:

02/07/2018

ACKNOWLEDGEMENT OF ASSIGNMENTS BY INVENTORS

Whereas in 2005, Haiming Huang ("Inventor") executed certain assignments titled "Assignment By Inventors," whereby Inventor assigned certain intellectual property assets to Waltical Solutions, Inc. (formerly Walbell Technologies, Inc.) then located at Suite D159, 1750 112th Ave. NE, Bellevue, Washington 98004.

Whereas each assignment inadvertently misspelt the assignee's name: Waltical Solutions, Inc. is wrongly identified in the assignments as Waltical Solution, Inc. instead of Waltical Solutions, Inc. The omission of the "s" was a typographical error.

Inventor hereby acknowledges that the intended assignee was Waltical Solutions, Inc., and that Inventor understood each assignment as effectively assigning the identified assets to Waltical Solutions, Inc. at the time Inventor executed the assignments.

By (Signature): Huang, Haiming
Name (Print): Haiming Huang
Date: 02/07/2018

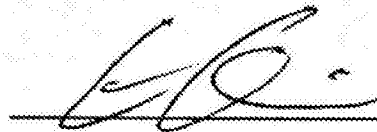
ACKNOWLEDGEMENT OF ASSIGNMENTS BY INVENTORS

Whereas in 2005, KEMIN LI ("Inventor") executed certain assignments titled "Assignment By Inventors," whereby Inventor assigned certain intellectual property assets to Waltical Solutions, Inc. (formerly Walbell Technologies, Inc.) then located at Suite D159, 1750 112th Ave. NE, Bellevue, Washington 98004.

Whereas each assignment inadvertently misspelt the assignee's name: Waltical Solutions, Inc. is wrongly identified in the assignments as Waltical Solution, Inc. instead of Waltical Solutions, Inc. The omission of the "s" was a typographical error.

Inventor hereby acknowledges that the intended assignee was Waltical Solutions, Inc., and that Inventor understood each assignment as effectively assigning the identified assets to Waltical Solutions, Inc. at the time Inventor executed the assignments.

By (Signature):



Name (Print):

KEMIN LI

Date:

02/08/2018