# 504890522 04/28/2018

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4937264

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	NCE:	ASSIGNMENT				
ONVEYING PARTY D	ΑΤΑ					
		Name	Execution Date			
IAODONG LI			04/08/2005			
ITUS LO			04/08/2005			
IAIMING HUANG			04/08/2005			
EMIN LI			04/08/2005			
	TA					
lame:	WALTI	ICAL SOLUTIONS, INC.				
treet Address:	1750 1	12TH AVE. NE				
nternal Address:	SUITE	SUITE D159				
City:	BELLEVUE					
tate/Country:	WASH	INGTON				
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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

61240-8000/LEGAL21949989.2

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:  $\frac{10/19/2011}{100}$ 

61240-8000/LEGAL21949989.2

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 11	Exhibit I2	023492 / 0350	Exhibit 13	Exhibit 14

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# EXHIBIT A1



Form PTO-1595 (Rev. 07/05) OMB No. 0651-0027 (exp. 6/30/2008)

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

RECORDATION FORM COVER SHEET				
PATENTS ONLY				
To the Director of the U.S. Patent and Trademark Office: Please r				
1. Name of conveying party(ies):	2. Name and address of receiving party(ies)			
Waltical Solutions, Inc.	Name:Neocific, Inc			
	Internal Address:			
Additional name(s) of conveying party(ies) attached? Yes X No	Street Address:			
3. Nature of conveyance/Execution Date(s):				
Execution Date(s): December 14, 2005	13312 SE 43rd Street			
X Assignment Merger Change of Name				
Security Agreement Joint Research Agreement	City:Bellevue			
Government Interest Assignment	State: Washington			
Executive Order 9424, Confirmatory License	Country: United States of America Zip: 98006			
Other	Additional name(s) & address(es) Yes X No attached:			
4. Application or patent number(s):	his document is being filed together with a new application.			
A. Patent Application No.(s)	B. Patent 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 60/704,141 60/721,451				
001000,931				
Additional numbers attached?	Yes X No			
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and 15			
Name: Christopher J. Daley-Watson PERKINS COIE LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 600.00			
Internal Address: Atty. Dkt.: 429388000US	Authorized to be charged by credit card			
Street Address: P.O. Box 1247	Authorized to be charged to deposit account			
	X Enclosed			
	h hard			
	None required (government interest not affecting title)			
City: Seattle	8. Payment Information			
State: VA Zip:98111-1247	a. Credit Card Last 4 Numbers			
Phone Number: (206) 359-8000	Expiration Date			
Fax Number: (206) 359-9000	b. Deposit Account Number			
Email Address:	Authorized User Name			
9. Signature:				
	December 15, 2005			
Signature	Date			
Christopher J. Daley-Watson - 34,807 Name of Person Signing	Total number of pages including cover 5 sheet, attachments, and documents: 5			
I hereby certify that this correspondence is being deposited with the lin an envelope addressed to: MS Assignment Recordation Services, Alexandria, VA 22313-1450; on the date shown below.	, Director of the US Patent and Trademark Office, P.O. Box 1450,			
Dated: 12/16/05 Signature:	Tu (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 43<sup>rd</sup> 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.

> 429388001US PATENT REEL: 046035 FRAME: 0565

# <u>SCHEDULE A</u>

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	Tilus 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	РСТ
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	РСТ
US05/14835	April 29, 2005	Xlaodong 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

429388001US

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

# 429388001US PATENT REEL: 0**46035** FRAME: 0**566**

Waltical Solutions, Inc. By: XIADDONG LI Name:

PRESIDENT Title:

December 14, 2005 Date: United States of America Wagninoton State of ss.: County of 2005 On this day of M , before me personally came to me known to be the individual **XIaodon** described in and who executed the foregoing instrument, and acknowledged execution of the same. ynne Notar Public Denembere 10, 2000

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My WMM. -9



429388001US

# 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

MARCH 25, 2006

PTAS

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

# PATENT DOCKETING

APR 0 7 2006

PERKINS COIE LLP

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

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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 PATENT NUMBER: ISSUE DATE: ISSUE DATE: TITLE: METHODS AND APPARATUS FOR A POWER EFFICIENT BROADCASTING AND COMMUNICATION SYSTEM

P.O. Box 1450, Alexandria, Virginia 22313-1450 - www.uspto.gov

PATENT REEL: 046035 FRAME: 0569

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FILING DATE: 02/07/2003 SERIAL NUMBER: 10360007 ISSUE DATE: PATENT NUMBER: TITLE: PROTECTING INFORMATION TRANSMISSIONS VIA ENCRYPTION, SUCH AS WITH KEY HOPPING TECHNIQUES IN AN 802.11 WIRELESS NETWORK FILING DATE: 03/25/2005 SERIAL NUMBER: 60665184 ISSUE DATE: PATENT NUMBER: TITLE: METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION SYSTEM FILING DATE: 07/29/2005 SERIAL NUMBER: 60704141 ISSUE DATE: PATENT NUMBER: TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS USING NON-UNIFORM SYMBOL STRUCTURES FILING DATE: 03/25/2005 SERIAL NUMBER: 60665205 ISSUE DATE: PATENT NUMBER: TITLE: METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA NETWORK FILING DATE: 09/28/2005 SERIAL NUMBER: 60721451 ISSUE DATE: PATENT NUMBER: 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 FILING DATE: 03/09/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0508169 TITLE: METHODS AND APPARATUS FOR RANDOM ACCESS IN MULTI-CARRIER COMMUNICATION SYSTEMS FILING DATE: 06/29/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0523399 TITLE: METHODS AND APPARATUS FOR POWER CONTROL IN MULTI-CARRIER WIRELESS SYSTEMS FILING DATE: 02/14/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0504601 TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATION SYSTEMS WITH ADAPTIVE TRANSMISSION AND FEEDBACK FILING DATE: 04/29/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0514828 TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS WITH VARIABLE CHANNEL BANDWIDTH

017363/0370 PAGE 2

PATENT REEL: 02/6035 FRAME: 02/20 017363/0370 PAGE 3

SERIAL NUMBER: PATENT NUMBER:

PCT NUMBER: US0503889

FILING DATE: 02/07/2005 ISSUE DATE:

FILING DATE: 01/27/2005

ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATION SYSTEMS WITH AUTOMATIC REPEAT REQUEST (ARQ)

SERIAL NUMBER:

PATENT NUMBER:

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: PATENT NUMBER:

PCT NUMBER: US0514835 TITLE: METHODS AND APPARATUS FOR COMMUNICATION WITH TIME-DIVISION DUPLEXING

FILING DATE: 04/29/2005 ISSUE DATE:

SHAREILL COLES, EXAMINER ASSIGNMENT SERVICES BRANCH PUBLIC RECORDS DIVISION

0MB No. 0651-0027 (exp. 6/ 103141387	IIIIII ₹SHEET Y
To the Director of the U.S. Patent and Trademark Office: Please	
1. Name of conveying party(ies):	2. Name and address of receiving party(ies)
Waltical Solutions, Inc.	Name: Neocific, Inc.
	Internal Address:
Additional name(s) of conveying party(les) attached? Yes X No	Internal Address:
3. Nature of conveyance/Execution Date(s):	
Execution Date(s): December 14, 2005	13312 SE 43rd Street
X Assignment Merger Change of Name	d
Security Agreement	City: Bellevue
Gavernment Interest Assignment	State: Washington
Executive Order 9424, Confirmatory License	Country: United States of America Zip: 98006
Other	Additional name(s) & address(es) Yes X No
	attached:
4. Application or patent number(s):	This document is being filed together with a new application.
A. Patent Application No.(s)	B. Patent No.(s)
US05/01939 US05/04601 US05/03689 10/456,654 10/360,007 US05/03618	
US05/08169 US05/14828 US05/14835 US05/23399 60/665,184 60/665,205	
60/686,937 60/704,141 60/721,451	
Additional numbers attached	7 Yes XNo
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and 15
Name: Christopher J. Daley-Watson	
PERKINS COIE LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 600.00
Internal Address: Atty. Dkt.: 429388000US Street Address: P.O. Box 1247	Authorized to be charged by credit card
	Authorized to be charged to deposit account
	X Enclosed
	None required (government interest not affecting title
City: Seattle	8. Payment Information
State: WA Zip: 98111-1247	a. Credit Card Last 4 Numbers
Phone Number: (206) 359-8000	Expiration Date
Fax Number: (206) 359-9000	b. Deposit Account Number
Email Address:	Authorized User Name
9. Signature:	
Signature	- December 15, 2005 Date
Christopher J. Daley-Watson - 34,807	Total asymbol of names individual asymptot
Name of Person Signing	sheet, attachments, and documents: 5
I hereby certify that this correspondence is being deposited with the in an envelope addressed to: MS Assignment Recordation Services	
Alexandria, VA 22313-1450 on the date shown below.	, Sector of the US called and trademark Unice, P.O. DOX 1450,
Dated: 12/18/05 Signature: 12	(Peter Sher)

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# 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  $U\underline{X}0\underline{X}/0\underline{4}0\underline{1}$  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

429388002US

PATENT REEL: 026035 FRAME: 0224

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.

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Xiaodong Li	~*************************************
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Date: Apr 5, 2005	
CERCONNECTION CONTRACTOR CONTRACT	
United States of America	
State of Washington	_) ss.:
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CK	L. Loo <u>S</u> , before me
On this <u>S</u> day of <u>Avira</u>	to me known to be the individual
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# 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



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NOVEMBER 06, 2009

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

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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			

P.O. Box 1450, Alexandria, Virginia 22313-1450 - www.uspro.cov

#### USPTO

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 AFPARATUS 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

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11/05/2009 501008023

SUBMISSION TYPE:		NEW ASSIGNMENT				
NATURE OF CONVEN	ANCE:		ASSIGNMENT			
CONVEYING PARTY DATA						
Name Execution Date						
Xisodong Li 04/08/2005						
Titus Lo 04/08/2005						
Haiming Huang				04/08/2005		
Kemin Li				04/08/2005		
RECEIVING PARTY D	ATA		· ·		3	
Name:	Waltical Solu	tion, in	C			
Street Address:	112th Ave. N	6				
Internal Address:	Suite D159					
City:	Bellavue					
State/Country:	WASHINGTON					
Postal Code:	: 98004					
PROPERTY NUMBERS Total: 1 Property Type						
Property Ty	рә		Namber			
Application Number: 10583529						
Fax Number:       (208)359-9219         Correspondence will be sent via US Mail when the fax attempt is unsuccessivit.         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						
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#### TO:STEPHANIE OLSON COMPANY:PO BOX 1247

Total Attachments: 6 source=61240.8002 US01 Exac Assignment Inventors to Walticsi#page1.tif source=61240.8002 US01 Exac Assignment Inventors to Waltical#page2.tif source=61240.8002 US01 Exac Assignment Inventors to Waltical#page3.tif source=61240.8002 US01 Exac Assignment Inventors to Waltical#page4.tif source=61240.8002 US01 Exac Assignment Inventors to Waltical#page4.tif source=61240.8002 US01 Exac Assignment Inventors to Waltical#page5.tif source=61240.8002 US01 Exac Assignment Inventors to Waltical#page5.tif

# EXHIBIT B1





Form PTO-1595 (Rev. 07/05)

U.S. DEPARTMENT OF COMMERCE

RECORDATION FOR	M 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):	2. Name and address of receiving party(ies)
Waltical Solutions, Inc.	Name: Neocific, Inc.
	Internal Address:
Additional name(s) of conveying party(ies) attached? Yes X No	Street Address:
3. Nature of conveyance/Execution Date(s):	
Execution Date(s): December 14, 2005	13312 SE 43rd Street
X Assignment Merger Change of Name	
Security Agreement Joint Research Agreement	City: Bellevue
Government Interest Assignment	State: Washington
Executive Order 9424, Confirmatory License	Country: United States of America Zip: 98006
Other	Additional name(s) & address(es) Yes X No attached:
4. Application or patent number(s):	This document is being filed together with a new application.
A. Patent Application No.(s)	B. Patent No.(s)
US05/01939 US05/04601 US05/03889	
10/456,654 10/360,007 US05/03518	
US05/08169 US05/14828 US05/14835 US05/08169 60/665,184 60/665,205	
US05/23399 60/605,164 60/605,255 60/688,937 60/704,141 60/721,451	
Additional numbers attached?	
Additional hombers attached i	Yes X No
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and 15 patents involved:
Name: Christopher J. Daley-Watson PERKINS COIE LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 600.00
Internal Address: Atty. Dkt.: 429388000US	Authorized to be charged by credit card
Street Address: P.O. Box 1247	Authorized to be charged to deposit account
	Enclosed
	None required (government interest not affecting title)
City: Seattle	8. Payment Information
State: WA Zip: <u>98111-1247</u>	a. Credit Card Last 4 Numbers
Phone Number: (206) 359-8000	Expiration Date
Fax Number:(206) 359-9000	b. Deposit Account Number
Email Address:	Authorized User Name
9. Signature:	
1 // U.I.V.	December 15, 2005
Signature	Determber 10, 2000
Christopher J. Daley-Watson - 34,807	Total number of pages including cover
Name of Person Signing	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 Alexandria, VA 22313-1450 on the date shown below.	
12/12/10T	t. Mar
Dated: 12/10/03 Signature: 120	(Lu) (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 43<sup>rd</sup> 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

429388001US

PATENT REEL: 0**26035** FRAME: 0**289**
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 Ll, Haiming Huang, Titus Lo, Ruifeng Wang	METHOD AND APPARATUS FOR MULTI-CARRIER PACKET COMMUNICATION WITH REDUCED OVERHEAD	US

429388001US

PATENT REEL: 026035 FRAME: 0289

3

Title: <u>PRESIDENT</u>

December 14, 2005 Date: United States of America State of Washington SS.: County of 2005 12AL On this day of , before me personally came , to me known to be the individual **l**iaodon described in and who executed the foregoing instrument, and acknowledged execution of the same.



Notary Public

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429388001US

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# EXHIBIT B2



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### UNITED STATES PATENT AND TRADEMARK OFFICE

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

MARCH 25, 2006

PTAS

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

# PATENT DOCKETING

APR 0 7 2006

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

FILING DATE: 06/05/2003 SERIAL NUMBER: 10456654 **ISSUE DATE:** PATENT NUMBER: TITLE: ADAPTIVE COMMUNICATIONS SYSTEM AND METHOD

SERIAL NUMBER: 60688937 FILING DATE: 06/09/2005 ISSUE DATE: PATENT NUMBER: TITLE: METHODS AND APPARATUS FOR A POWER EFFICIENT BROADCASTING AND COMMUNICATION SYSTEM

P.O. Box 1450, Alexandria, Virginia 22313-1450 - www.uspto.gov

FILING DATE: 02/07/2003 SERIAL NUMBER: 10360007 ISSUE DATE: PATENT NUMBER: TITLE: PROTECTING INFORMATION TRANSMISSIONS VIA ENCRYPTION, SUCH AS WITH KEY HOPPING TECHNIQUES IN AN 802.11 WIRELESS NETWORK FILING DATE: 03/25/2005 SERIAL NUMBER: 60665184 ISSUE DATE: PATENT NUMBER: TITLE: METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION SYSTEM FILING DATE: 07/29/2005 SERIAL NUMBER: 60704141 ISSUE DATE: PATENT NUMBER: TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS USING NON-UNIFORM SYMBOL STRUCTURES FILING DATE: 03/25/2005 SERIAL NUMBER: 60665205 ISSUE DATE: PATENT NUMBER: TITLE: METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA NETWORK FILING DATE: 09/28/2005 SERIAL NUMBER: 60721451 ISSUE DATE: PATENT NUMBER: TITLE: METHOD AND APPARATUS FOR MULTI-CARRIER PACKET COMMUNICATION WITH REDUCED OVERHEAD FILING DATE: 01/20/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0501939 TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER, MULTI-CELL WIRELESS COMMUNICATION NETWORKS FILING DATE: 03/09/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0508169 TITLE: METHODS AND APPARATUS FOR RANDOM ACCESS IN MULTI-CARRIER COMMUNICATION SYSTEMS FILING DATE: 06/29/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0523399 TITLE: METHODS AND APPARATUS FOR POWER CONTROL IN MULTI-CARRIER WIRELESS SYSTEMS FILING DATE: 02/14/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0504601 TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATION SYSTEMS WITH ADAPTIVE TRANSMISSION AND FEEDBACK FILING DATE: 04/29/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0514828 TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS WITH VARIABLE CHANNEL BANDWIDTH

017363/0370 PAGE 2

#### 017363/0370 PAGE 3

FILING DATE: 02/07/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0503889 TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATION SYSTEMS WITH AUTOMATIC REPEAT REQUEST (ARQ) SERIAL NUMBER: FILING DATE: 01/27/2005 ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0503518 TITLE: METHODS AND APPARATUS FOR OVERLAYING MULTI-CARRIER AND DIRECT SEQUENCE SPREAD SPECTRUM SIGNAL IN A BROADBAND WIRELESS COMMUNICATION SYSTEM FILING DATE: 04/29/2005 SERIAL NUMBER:

PATENT NUMBER: ISSUE DATE: PCT NUMBER: US0514835 TITLE: METHODS AND APPARATUS FOR COMMUNICATION WITH TIME-DIVISION DUPLEXING

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Other			Additional name(s) & address(es)	X No
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# EXHIBIT B3

#### **ASSIGNMENT BY INVENTORS**

This Assignment is by Xiaodong Li; Titus Lo; Halming 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  $\frac{\mu So Y}{\sigma_2^2 \delta_1^2}$  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

#### 429388003US

PATENT REEL: 026035 FRAME: 0298

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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 tille 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.

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•	Titus Lo
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United States of America State of <u>Washington</u> ss. County of <u>Kington</u> ss.	•
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	Kemin Li
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# EXHIBIT B4

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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

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#### USPTO

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

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#### TO: STEPHANIE OLSON COMPANY: PO BOX 1247

#### PATENT ASSIGNMENT

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SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the Assignor: LI, Xiedong previously recorded on Real 021690 Frame 0365. Assignor(s) haraby confirms the This Assignment is by Xieodong Li; Titus Lo; Heiming Hueng; and Kemin LI (the "Assignors").

CONVEYING PARTY DATA

Nama	Execution Data
Xlaodong Li	04/08/2005
Titus Lo	04/08/2005
Halming Huang	04/08/2005
Kemin Li	04/08/2005

#### RECEIVING PARTY DATA

		1
Name:	Wallical Sciution, Inc.	
Street Address:	1750 112th Ave. NE	
Internal Address:	Sulte D159	
ICity:	Bellevue	
State/Country:	WASHINGTON	
Postal Code:	98004	

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
PCT Numbar:	US0503889

#### CORRESPONDENCE DATA

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00000	Email:	solson@perkin	scola.com
	Correspondent Name:	Stephanie Olso	n
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Electronic Patent Assignment System

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### PATENT ASSIGNMENT

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SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT		
NATURE OF CONVEYANCE:	Corrective Assignment to correct the Assignor: Li, Xiadong previously recorded on Reel 021690 Frame 0365. Assignor(s) hereby confirms the This Assignment is by Xiaodong Li; Titus Lo; Haiming Huang; and Kemin Li (the "Assignors").		
CONVEYING PARTY DATA			
Nar	ne	Execution Date	
Xiaodong Li		04/08/2005	
Titus Lo		04/08/2005	
Haiming Huang		04/08/2005	
Kemin Li		04/08/2005	
Name:Waltical Solution,Street Address:1750 112th Ave. 1Internal Address:Suite D159City:BellevueState/Country:WASHINGTONPostal Code:98004PROPERTY NUMBERS Total:1			
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CORRESPONDENCE DATA			
Fax Number: (206)359-9219			

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10/29/2008

PATENT 1029200 REEL: 026035 FRAME: 0209

Email: solson@perkinsc Correspondent Name: Stephanic Olson Address Lize 1: PO Box 1247 Address Lize 2: SEA-PAT	s Line 1: PO Box 1247 s Line 2: SEA-PAT		
ATTORNEY DOCKET NUMBER:	61240.8003 US01		
NAME OF SUBMITTER:	Stephen C. Bishop		
Signature:	/SCB/		
Date:	10/29/2008		
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# EXHIBIT C1



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PATENTS	ONI Y
To the Director of the U.S. Patent and Trademark Office: Please	
1. Name of conveying party(ies):	2. Name and address of receiving party(ics)
Waltical Solutions, Inc.	Name: Neocific, Inc.
	Internal Address:
Additional name(s) of conveying party(ies) attached?	Street Address:
3. Nature of conveyance/Execution Date(s):	
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Government Interest Assignment	State: Washington
Executive Order 9424, Confirmatory License	Country: United States of America Zip: 98006
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Innert	This document is being filed together with a new application.
A. Patent Application No.(s)	B. Patent 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? Name and address to whom correspondence	6. Total number of applications and
concerning document should be mailed:	patents involved:
lame: Christopher J. Daley-Watson	
PERKINS COIE LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 600.00
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	Enclosed
	None required (government interest not affecting
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Phone Number: (206) 359-8000	Expiration Date
ax Number: (206) 359-9000	b. Deposit Account Number
Email Address:	Authorized User Name
Signature:	
// \//\	December 15, 2005
Signature	Date
Christopher J. Daley-Watson - 34,807	Total number of pages including cover sheet, attachments, and documents:
Name of Person Signing	
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Alexandria, VA 22313-1450 on the date shown below.	A M
Dated: 12/18/07 Signature: 144	10 (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 43<sup>rd</sup> 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.

> 429388001US PATENT REEL: 046035 FRAME: 0663

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## 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)	РСТ
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, Tilus 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

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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, Kernin 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 S	Solutions, Inc.
Dun	UND
Ву:	
Name:	XIADDONG LI
Title:	PRESIDENT
1116.	FRESTORIO

WAS

United States of America State of <u>Wallington</u> ss.: County of <u>Fine</u> ss.: On this <u>I4FL</u> day of <u>Datember 4</u> , <u>2005</u> , before me personally came <u>VI accloring</u> , to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same. <u>Wallington</u> ss.: <u>County of</u> <u>Laboran</u> , <u>2005</u> , before me <u>Individual</u> <u>Accloring</u> , to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same. <u>Mallington</u> <u>Notary Public</u>	Date:	Decemb	<u>20. 14, 2</u>	æ					
personally came <u>Viaciono</u> , to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.	State of			oton	) _) ss.: )				
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PATENT REEL: 026035 FRAME: 0266

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# 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.

MARCH 25, 2006

PTAS

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

# PATENT DOCKETING

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PERKINS COIE LLP

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

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

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

RECORDATION DATE: 12/15/2005

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

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

DOCKET NUMBER: 429388000US

ASSIGNOR:

WALTICAL SOLUTIONS, INC.

DOC DATE: 12/14/2005

ASSIGNEE:

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

SERIAL NUMBER: 10456654 PATENT NUMBER: ISSUE DATE: 06/05/2003 ISSUE DATE: TITLE: ADAPTIVE COMMUNICATIONS SYSTEM AND METHOD

SERIAL NUMBER: 60688937 PATENT NUMBER: FILING DATE: 06/09/2005 ISSUE DATE: TITLE: METHODS AND APPARATUS FOR A POWER EFFICIENT BROADCASTING AND COMMUNICATION SYSTEM

P.O. Box 1450, Alexandria, Virginia 22313-1450 - www.uspto.gov

017363/0370 PAGE 2

FILING DATE: 02/07/2003 SERIAL NUMBER: 10360007 ISSUE DATE: PATENT NUMBER: TITLE: PROTECTING INFORMATION TRANSMISSIONS VIA ENCRYPTION, SUCH AS WITH KEY HOPPING TECHNIQUES IN AN 802.11 WIRELESS NETWORK FILING DATE: 03/25/2005 SERIAL NUMBER: 60665184 ISSUE DATE: PATENT NUMBER: TITLE: METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION SYSTEM FILING DATE: 07/29/2005 SERIAL NUMBER: 60704141 ISSUE DATE: PATENT NUMBER: TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS USING NON-UNIFORM SYMBOL STRUCTURES FILING DATE: 03/25/2005 SERIAL NUMBER: 60665205 ISSUE DATE: PATENT NUMBER: TITLE: METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA NETWORK FILING DATE: 09/28/2005 SERIAL NUMBER: 60721451 ISSUE DATE: PATENT NUMBER: TITLE: METHOD AND APPARATUS FOR MULTI-CARRIER PACKET COMMUNICATION WITH REDUCED OVERHEAD FILING DATE: 01/20/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0501939 TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER, MULTI-CELL WIRELESS COMMUNICATION NETWORKS FILING DATE: 03/09/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0508169 TITLE: METHODS AND APPARATUS FOR RANDOM ACCESS IN MULTI-CARRIER COMMUNICATION SYSTEMS FILING DATE: 06/29/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0523399 TITLE: METHODS AND APPARATUS FOR POWER CONTROL IN MULTI-CARRIER WIRELESS SYSTEMS FILING DATE: 02/14/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0504601 TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATION SYSTEMS WITH ADAPTIVE TRANSMISSION AND FEEDBACK FILING DATE: 04/29/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0514828 TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS WITH VARIABLE CHANNEL BANDWIDTH

017363/0370 PAGE 3

FILING DATE: 02/07/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0503889 TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATION SYSTEMS WITH AUTOMATIC REPEAT REQUEST (ARQ) FILING DATE: 01/27/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0503518 TITLE: METHODS AND APPARATUS FOR OVERLAYING MULTI-CARRIER AND DIRECT SEQUENCE SPREAD SPECTRUM SIGNAL IN A BROADBAND WIRELESS COMMUNICATION SYSTEM FILING DATE: 04/29/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0514835

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

SHAREILL COLES, EXAMINER ASSIGNMENT SERVICES BRANCH PUBLIC RECORDS DIVISION

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1. Name of conveying party(les):	2. Name and address of receiving party(ies)
Waltical Solutions, Inc.	and a second sec
Wantear Bolotions, me.	Name: <u>Neocific, Inc.</u>
	Internal Address:
Additional name(s) of conveying party(les) attached?	Street Address:
3. Nature of conveyance/Execution Date(s):	
Execution Date(s): December 14, 2005	13312 SE 43rd Street
X Assignment Merger Change of Name	· · · · · ·
Security Agreement Joint Research Agreement	City: Bellevue
t the second the second	
Government Interest Assignment	State: Washington
Executive Order 9424, Confirmatory License	Country: United States of America Zip: 98006
Other	Additional name(s) & address(es)
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 US05/0	B. Patent No.(s)
10/456,654 10/360,007 US05/0	3518
US05/08169 US05/14828 US05/1 60/665 184 50/665	
US05/23399 60/704,141 60/721 60/688,937	
Additional numbers atta	
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and 15
Name: Christopher J. Daley-Watson PERKINS COIE LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 600.00
Internal Address: Atty. Dkt.: 429388000US	Authorized to be charged by credit card
Street Address: P.O. Box 1247	
	Authorized to be charged to deposit account
	X Enclosed
	None required (government interest not affecting titl
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City: Seattle	8. Payment Information
State: WA Zip: <u>98111-12</u> Phone Number: (206) 359-8000	47 a. Credit Card Last 4 Numbers
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CONTRACTOR DE LA CONTRACTÓNICO DE LA CONTRACTÓ	Authorized User Name
Email Address:	
9. Signature:	
	December 15, 2005
L	Date
Signature	307 Total number of pages including cover 5
Christopher J. Daley-Watson - 34,	sheet, attachments, and documents:
Christopher J. Daley-Watson - 34, Name of Person Signing	sheet, attachments, and documents:
Christopher J. Daley-Watson - 34, Name of Person Signing Thereby certify that this correspondence is being deposited wit in an envelope addressed to: MS Assignment Recordation Second	h the U.S. Postal Service as Express Mail, Airbill No. EV753928963US,
Christopher J. Daley-Watson - 34, Name of Person Signing	sheet, attachmants, and occurrents:

.

# EXHIBIT C3

مربع مربع الم 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 <u>USOS/03818</u> 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 release, 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

PATENT REEL: 026035 FRAME: 0623

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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.

#### 429388006US

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Xiaodong Li

4/08 Date: 1.2

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United States of America State of County of

 $2 \xrightarrow{} 5$ , before me to me known to be the individual On this day of personally came Xiaodong Li described in and who executed the foregoing instrument, and acknowledged execution of the same.

ss.:



Notary Public

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	Titus Lo
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United States of America	
State of Washington)ss	, <b>.</b>
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Date: <u>Apr. 8, 2005</u>	
United States of America	
State of Washington )ss	a 36
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	Theray, Hering
	Haiming Huang
Date:	April 8. 10-1
United States	of America , )
State of	Washington )ss.:
County of	King (
On this §	day of April, 2005, before me
personally can	
	nd who executed the foregoing instrument, and acknowledged execution
of the same.	NOTAP_ NOTAP_ NOTAP_ NOTAP_ Notary Public

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# 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



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NOVEMBER 09, 2009

PTAS

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

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

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RECORDATION DATE: 11/09/2009 REEL,

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			

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

P.O. Box 1450, Alexandria, Virginia 22313-1450 - www.uarro.cov

TO:STEPHANIE OLSON COMPANY: PO BOX 1247

023489/0816 PAGE 2

FILING DATE: 08/27/2008 SERIAL NUMBER: 10583229 ISSUE DATE: PATENT NUMBER: 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

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11/09/2009 501009990

SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT	
NATURE OF CONVE	YANCE:	ASSIGNMENT	ASSIGNMENT	
CONVEYING PARTY	'DATA			
		Name	Execution Date	
Xiaodong Li			04/08/2005	
Titus Lo			04/08/2005	
Heiming Hueng			04/08/2005	
Kamin Li			04/08/2005	
RECEIVING PARTY	DATA			
Name:	Waltical Solutio	n, İnc.		
Street Address:	1750 1121h Ave	). NE		
Internal Address:	Suite D159		5	
City:	Bellevue			
State/Country:	WASHINGTON			
Postal Code:	98004			
	RS Total: 1			
Property T	урэ	8	ismber	
Application Number:	1(	0583229		
CORRESPONDENCE DATA				
Fax Number: Correspondence #// Email: Correspondent Name Address Line 1: Address Line 2: Address Line 4:	solson@p : Stephanie PO Box 12 SEA-PAT	<i>tall when the fax attempt is unsuc</i> endnscole.com • Olson	cesstul.	
ATTORNEY DOCKET	NUMBER:	61240.8006 US01		
NAME OF SUBMITTE	ER: Stephen C. Bishop			

#### TO: STEPHANIE OLSON COMPANY: PO BOX 1247

Total Attachments: 6

source=61240.8008 US01 Exec Assignment Inventors to Welticel#page1.tif source=61240.8008 US01 Exec Assignment Inventors to Welticel#page2.tif source=81240.8008 US01 Exec Assignment Inventors to Welticel#page3.tif source=81240.8008 US01 Exec Assignment Inventors to Welticel#page4.tif source=61240.8008 US01 Exec Assignment Inventors to Welticel#page4.tif source=61240.8008 US01 Exec Assignment Inventors to Welticel#page5.tif source=61240.8008 US01 Exec Assignment Inventors to Welticel#page5.tif

# EXHIBIT D1





Form PTO-1595 (Rev. 07/05)

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

RECORDATION FORM COVER SHEET			
PATENTS ONLY			
To the Director of the U.S. Patent and Trademark Office: Please			
1. Name of conveying party(ies):	2. Name and address of receiving party(les)		
Waltical Solutions, Inc.	Name: Neocific, Inc.		
	Internal Address:		
Additional name(s) of conveying party(ies) attached?	Street Address:		
3. Nature of conveyance/Execution Date(s):			
Execution Date(s): December 14, 2005	13312 SE 43rd Street		
X Assignment Merger Change of Name			
Security Agreement Joint Research Agreement	City: Bellevue		
Government Interest Assignment	State: Washington		
Executive Order 9424, Confirmatory License	Country: United States of America Zip: 98006		
Other	Additional name(s) & address(es) Yes X No		
	attached:		
4. Application or patent number(s):	This document is being filed together with a new application.		
A. Patent Application No.(s)	B. Patent 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 60/704,141 60/721,451			
60/663,937			
Additional numbers attached?	Yes X No		
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and 15		
Name: Christopher J. Daley-Watson PERKINS COIE LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 600.00		
Internal Address: Atty. Dkt.: 429388000US	Authorized to be charged by credit card		
Street Address: P.O. Box 1247	Authorized to be charged to deposit account		
	Enclosed		
	None required (government interest not affecting title)		
City: Seattle	8. Payment information		
State: WA Zip: 98111-1247	a. Credit Card Last 4 Numbers		
Phone Number: (206) 359-8000	Expiration Date		
Fax Number: (206) 359-9000	b. Deposit Account Number		
Email Address:	Authorized User Name		
9. Signature:			
I AZULIU	December 15, 2005		
Signature	Date		
Christopher J. Daley-Watson - 34,807 Name of Person Signing	Total number of pages including cover 5		
I hereby certify that this correspondence is being deposited with the			
in an envelope addressed to: MS Assignment Recordation Services Alexandria, VA 22313-1450t on the date shown below.	, Director of the US Patent and Trademark Office, P.O. Box 1450,		
Dated: 12/10/05 Signature: 14	Le 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 43<sup>rd</sup> 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, tille 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.

> 429388001US PATENT REEL: 046095 FRAME: 0686

# SCHEDULE A

Application Number (Patent Number)	Filing Date	Inventor	Title	Ctry
US05/01939	Jan. 20, 2005	Xlaodong 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	РСТ
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

429388001US

PATENT REEL: 0**26035** FRAME: 0**6**83

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, Halming 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

429388001US

County of

Date: <u>December 14, 2006</u> United States of America ) State of WaGNinoton ) ss.:

On this <u>1444</u> day of <u>Determinant</u>, <u>2005</u>, before me personally came <u>Viaodono</u>, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

NOTERY PUBLIC NOTERY PUBLIC My COMM. - GOOD. DETEMBER 10, 2012

429388001US

PATENT REEL: 026035 FRAME: 0699

# EXHIBIT D2

## PATENT REEL: 02/5035 FRAME: 02/40



### UNITED STATES PATENT AND TRADEMARK OFFICE

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

MARCH 25, 2006

PTAS

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

# PATENT DOCKETING

APR 0 7 2006

PERKINS COLE LLP

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.

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

SERIAL NUMBER: 10456654 PATENT NUMBER: 10456654 ISSUE DATE: 06/05/2003 ISSUE DATE: TITLE: ADAPTIVE COMMUNICATIONS SYSTEM AND METHOD

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

P.O. Box 1450, Alexandria, Virginia 22313-1450 - www.uspto.gov

PATENT REEL: 025035 FRAME: 0642

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017363/0370 PAGE 2

FILING DATE: 02/07/2003 SERIAL NUMBER: 10360007 ISSUE DATE: PATENT NUMBER: TITLE: PROTECTING INFORMATION TRANSMISSIONS VIA ENCRYPTION, SUCH AS WITH KEY HOPPING TECHNIQUES IN AN 802.11 WIRELESS NETWORK FILING DATE: 03/25/2005 SERIAL NUMBER: 60665184 ISSUE DATE: PATENT NUMBER: TITLE: METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION SYSTEM FILING DATE: 07/29/2005 SERIAL NUMBER: 60704141 ISSUE DATE: PATENT NUMBER: TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS USING NON-UNIFORM SYMBOL STRUCTURES FILING DATE: 03/25/2005 SERIAL NUMBER: 60665205 ISSUE DATE: PATENT NUMBER: TITLE: METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA NETWORK FILING DATE: 09/28/2005 SERIAL NUMBER: 60721451 ISSUE DATE: PATENT NUMBER: TITLE: METHOD AND APPARATUS FOR MULTI-CARRIER PACKET COMMUNICATION WITH REDUCED OVERHEAD FILING DATE: 01/20/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0501939 TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER, MULTI-CELL WIRELESS COMMUNICATION NETWORKS FILING DATE: 03/09/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0508169 TITLE: METHODS AND APPARATUS FOR RANDOM ACCESS IN MULTI-CARRIER COMMUNICATION SYSTEMS FILING DATE: 06/29/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0523399 TITLE: METHODS AND APPARATUS FOR POWER CONTROL IN MULTI-CARRIER WIRELESS SYSTEMS FILING DATE: 02/14/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0504601 TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATION SYSTEMS WITH ADAPTIVE TRANSMISSION AND FEEDBACK FILING DATE: 04/29/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0514828 TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS WITH VARIABLE CHANNEL BANDWIDTH

#### 017363/0370 PAGE 3

FILING DATE: 02/07/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0503889 TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATION SYSTEMS WITH AUTOMATIC REPEAT REQUEST (ARQ) FILING DATE: 01/27/2005 SERIAL NUMBER: 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 FILING DATE: 04/29/2005 SERIAL NUMBER:

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

### PATENT REEL: 02/5035 FRAME: 02/33

12-21-2005 FOTTO PTO-1595 (Rev. 07/05	U.S. DEPARTMENT OF COMMERC
OMB No. 0651-0027 (exp. 62	
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To the Director of the U.S. Patent and Trademark Office: Please r	<ol> <li>ecord the attached documents of the new address(es) below.</li> <li>Name and address of receiving party(ies) - 7</li> </ol>
1. Name of conveying party(les): Waltical Solutions, Inc.	
	Name: Neocific, Inc.
Additional name(s) of conveying partylies) attached?	2. Name and address of receiving party(ies) Name: Neocific, Inc. Internal Address: Street Address:
3. Nature of conveyance/Execution Date(s):	۲. ۲ م
Execution Date(s): December 14, 2005	13312 SE 43rd Street
X Assignment Merger Change of Name	
Security Agreement Joint Research Agreement	City:Bellevue
Government Interest Assignment	State: Washington
Executive Order 9424, Confirmatory License	Country: United States of America Zip: 98006
Other	Additional name(s) & address(es) Yes X No attached:
4. Application or patent number(s):	his document is being filed together with a new application.
A. Patent Application No.(s)	B. Patent No.(s)
US05/01939 US05/04601 US05/03689 10/456,654 10/360,007 US05/0378	
US05/08169 US05/14828 US05/14835 US05/23399 60/655,184 60/665,205	
60/688,937 60/704,141 60/721,451	terrend terrend
Additional numbers attached?	
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and 15 15
Name: Christopher J. Daley-Watson PERKINS COIE LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$600.00
Internal Address: Atty. Dkt.: 429388000US	Authorized to be charged by credit card
Street Address: P.O. Box 1247	Authorized to be charged to deposit account
	X Enclosed
	None required (government interest not affecting title
City: Seattle	8. Payment Information
State: WA Zip: 98111-1247	a. Credit Card Last 4 Numbers
Phone Number: (206) 359-8000	Expiration Date
Fax Number: (206) 359-9000	b. Deposit Account Number Authorized User Name
Email Address:	
	December 15, 2005
Signature	Decentoer 15, 2005
Christopher J. Daley-Watson - 34,807	Total number of pages including cover 5
Name of Person Signing	sheet attachments, and documents:
thereby centify that this correspondence is being deposited with the U in an envelope addressed to: MS Assignment Recordation Services,	I.S. Postal Service as Express Mail, Airbill No. EV758928963US, Director of the US Patent and Trademark Office, P.O. 9ox 1450,
Alexandria, VA 22313-1450; on the date shown below	tu Peter Sher)
Dated: 12/10/01 Signature: 72	(Four aner)
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# EXHIBIT D3

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#### 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  $\frac{(J \le 65)/62164}{M}$  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

#### 429388008US

PATENT REEL: 046035 FRAME: 0646

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.

429388008US

PATENT REEL: 026035 FRAME: 0283

Xiaodong Li

4/8/05 Date: United States of America State of ( ) and ) \$5.: 19 County of , before me On this day cf ic to me known to be the individual personally came Xiaodóng Li described in and who executed the foregoing instrument, and acknowledged execution of the same. \*\*35\*\* 

Notary Public

			C.X.
		***********	Titus Lo
Date:	£, 200	SCOCOMPOSICIONS	٠
United States of A State of County of	merica Washingt King	) ) ss.: )	
On this 8	day ofA Titu	pt-l_	, $2025$ , before me , to me known to be the individual
described in and w of the same.	ho executed the	* *	ument, and acknowledged execution



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Notary Public

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Kemin Li
200 dr 2005
Date:
United States of America
State of Washington) ss.:
County of <u>kizzy</u>
On this day of <u>April</u> , <u>2005</u> , before me
Kome Li to me known to be the individual
described in and who executed the foregoing instrument, and acknowledged execution
of the same.
Notary Public
ಸಂಕರ್ಷ ಕ್ಷೇತ್ರ ಕ್ಷೇಟ್ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ ಗ್ರಾಮ್ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ ಗ್ರಾಮ್ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ್ಷೇತ್ರ ಕ
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	Techny, Heriening
	Haiming Huang
Date: April 8, 2005	a
United States of America	) )
State of Wighington	、)ss.:
County of King	)
On this <u>8</u> day of <u>אין אי</u> personally came <u>Haiming Hu</u> described in and who executed the fore	<u>المعلم</u> , <u>مح</u> , before me <u>uang</u> , to me known to be the individual egoing instrument, and acknowledged execution
of the same.	Notary Public

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# EXHIBIT D4

TO: STEPHANIE OLSON COMPANY: PO BOX 1247



**UNITED STATES PATENT AND TRADEMARK OFFICE** 

UNDER SECRETARY OF CONNERCE FOR INTELLECTUAL PROPERTY AND Director of the United States Patent and Tracemark Office



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NOVEMBER 09, 2009

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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: 023491/0649 NUMBER OF PAGES: 8
BRIEF: ASSIGNMENT OF ASSIGNOR'S DOCKET NUMBER: 61240.8008 US01	INTEREST (SEE DOCUMENT FOR DETAILS).
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	

P.O. Box 1450, Alexandria, Virginia 22313-1450 - www.uspto.cov

#### USPTO

#### TO:STEPHANIE OLSON COMPANY:PO BOX 1247

#### 023491/0649 PAGE 2

SERIAL NUMBER: 10583158 PATENT NUMBER: TITLE: METHODS AND APFARATUS 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
Stylesheel	t Version	v1.1

11/09/2009 501010435

SUBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEY	ANCE:	ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY DATA					
Name Execution Data					
Xiacdong LI					
Titus Lo	*****		****	04/08/2005	
Haiming Huang		***************************************	20000000000000000000000000000000000000	04/08/2005	
Kemin U				04/08/2005	
RECEIVING PARTY D	ATA				3
Name:	Waitical Soluti	on, Inc.			
Street Address:	1750 112lh Av	/ø. NE			
Internal Address:	Sulte D159			X REALING RECORDER FOR STOLEN	
City:	Bellavue				
State/Country:	WASHINGTON				
Postal Code:	98004				
PROPERTY NUMBERS Total: 1					
Property Ty	operty Type Number				
Application Number: 10583158					
Application Number: 10583158 CORRESPONDENCE DATA					
Fax Number: (208)359-9219 Correspondence will be sent via US Mail when the fax attempt is unsuccessful.					
Emeil: 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: 81240.8008 US01					
NAME OF SUBMITTER: Stephen C. Bishop					

#### TO:STEPHANIE OLSON COMPANY: PO BOX 1247

Total Attachments: 6

source=61240.8008 US01 Exec Assignment Inventors to Walticat#page1.tif source=61240.8008 US01 Exec Assignment Inventors to Walticat#page2.tif source=61240.8008 US01 Exec Assignment Inventors to Walticat#page3.tif source=61240.8008 US01 Exec Assignment Inventors to Walticat#page4.tif source=61240.8008 US01 Exec Assignment Inventors to Walticat#page5.tif source=61240.8008 US01 Exec Assignment Inventors to Walticat#page5.tif source=61240.8008 US01 Exec Assignment Inventors to Walticat#page5.tif

# EXHIBIT E1



A. Patent Application No.(s) US05/01939 US05/04601 US05/03889	ONLY
To the Director of the U.S. Patent and Trademark Office: Please         1. Name of conveying party(ies):         Waltical Solutions, Inc.         Additional name(s) of conveying party(ies) attached?       Yes X No         3. Nature of conveying party(ies) attached?       Yes X No         3. Nature of conveyance/Execution Date(s):       Execution Date(s):         Execution Date(s):       December 14, 2005         X Assignment       Merger       Change of Name         Security Agreement       Joint Research Agreement         Government Interest Assignment       Executive Order 9424, Confirmatory License         Other	record the attached documents or the new address(es) below.         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       X       No
1. Name of conveying party(ies):         Waltical Solutions, Inc.         Additional name(s) of conveying party(ies) attached?       Yes       X No         3. Nature of conveyance/Execution Date(s):       Execution Date(s):       Execution Date(s):         Execution Date(s):       December 14, 2005       X 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(les) 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 X No attached: This document is being filed together with a new application.
Waltical Solutions, Inc.         Additional name(s) of conveying party(ies) attached?       Yes       X No         3. Nature of conveyance/Execution Date(s):       Execution Date(s):       Execution Date(s):         Execution Date(s):       December 14, 2005	Name:       Neocific, Inc.         Internal Address:
Additional name(s) of conveying party(ies) attached?       Yes       X No         3. Nature of conveyance/Execution Date(s):       Execution Date(s):       Execution Date(s):         Execution Date(s):       December 14, 2005	Internal Address: Street Address: 13312 SE 43rd Street City:Bellevue State:Washington Country: United States of America Zip: 98006 Additional name(s) & address(es)YesNo attached: This document is being filed together with a new application.
3. Nature of conveyance/Execution Date(s):         Execution Date(s):         December 14, 2005         X 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	Internal Address: Street Address: 13312 SE 43rd Street City:Bellevue State:Washington Country: United States of America Zip: 98006 Additional name(s) & address(es)YesNo attached: This document is being filed together with a new application.
3. Nature of conveyance/Execution Date(s):         Execution Date(s):         December 14, 2005         X 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	Street Address:         13312 SE 43rd Street         City:       Bellevue         State:       Washington         Country:       United States of America Zip:       98006         Additional name(s) & address(es)       Yes       x       No         attached:       This document is being filed together with a new application.
Execution Date(s):       December 14, 2005         X 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         US05/01939	City: Bellevue State: Washington Country: United States of America Zip: 98006 Additional name(s) & address(es) Yes X No attached: This document is being filed together with a new application.
X       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	City:       Bellevue         State:       Washington         Country:       United States of America Zip:       98006         Additional name(s) & address(es)       Yes       X       No         attached:       This document is being filed together with a new application.
Security Agreement Joint Research Agreement     Government Interest Assignment     Executive Order 9424, Confirmatory License     Other      Application or patent number(s):     A. Patent Application No.(s)     US05/01939     US05/04601     US05/03889	State:       Washington         Country:       United States of America       Zip:       98006         Additional name(s) & address(es)       Yes       X       No         attached:       Yes       X       No
Government Interest Assignment     Executive Order 9424, Confirmatory License     Other      Application or patent number(s):     US05/01939     US05/04601     US05/03889	State:       Washington         Country:       United States of America       Zip:       98006         Additional name(s) & address(es)       Yes       X       No         attached:       Yes       X       No
Executive Order 9424, Confirmatory License     Other      Application or patent number(s):     US05/01939     US05/04601     US05/03889	Country: United States of America Zip: 98006 Additional name(s) & address(es) Yes X No attached:
Application or patent number(s):     A. Patent Application No.(s)     US05/01939     US05/04601     US05/03889	Additional name(s) & address(es) Yes X No attached:
Application or patent number(s):     A. Patent Application No.(s)     US05/01939     US05/04601     US05/03889	attached:
A. Patent Application No.(s) US05/01939 US05/04601 US05/03889	This document is being filed together with a new application.
A. Patent Application No.(s) US05/01939 US05/04601 US05/03889	• • • •
US05/01939 US05/04601 US05/03889	B. Fateni No.(s)
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 X No
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and 15
Name: Christopher J. Daley-Watson PERKINS COIE LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 600.00
	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 600.00 Authorized to be charged by credit card
Internal Address: Atty. Dkt.: 429388000US Street Address: P.O. Box 1247	Authorized to be charged to deposit account X Enclosed
	None required (government interest not affecting title
City: Seattle	8. Payment Information
State: WA Zip: <u>98111-1247</u>	a. Credit Card Last 4 Numbers
Phone Number: (206) 359-8000	Expiration Date
Fax Number: (206) 359-9000	b. Deposit Account Number Authorized User Name \$
Email Address:	
9, Signature:	December 15, 2005
Signature	Date
Christopher J. Daley-Watson - 34,807 Name of Person Signing	Total number of pages including cover 5 sheet, attachments, and documents:
I hereby certify that this correspondence is being deposited with the in an envelope addressed to: MS Assignment Recordation Services Alexandria, VA 22313-1450 on the date shown below.         Dated:       12/16/01       Signature:	b, Director of the US Patent and Trademark Office, P.O. Box 1450,

#### 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 43<sup>rd</sup> 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.

> 429388001US PATENT REEL: 026035 FRAME: 0659

## **W**

# SCHEDULE A

Application Number (Patent	Filing Date	Inventor	Title	Ctry
Number)				
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	РСТ
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

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PATENT REEL: 046035 FRAME: 0660
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:\_\_\_\_\_\_\_\_\_\_\_ Name:\_\_\_\_\_XIAODONG\_LI\_\_\_\_\_\_ Title:\_\_\_\_\_PRESIDENT\_\_\_\_\_\_

Date:	Decemb	<u>20. 14. 0</u>	125				
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# EXHIBIT E2



#### UNITED STATES PATENT AND TRADEMARK OFFICE

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MARCH 25, 2006

PTAS

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

## PATENT DOCKETING

APR 0 7 2006

PERKINS COIE LLP

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

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

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

RECORDATION DATE: 12/15/2005

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

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

DOCKET NUMBER: 429388000US

ASSIGNOR:

WALTICAL SOLUTIONS, INC.

DOC DATE: 12/14/2005

ASSIGNEE:

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

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

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

P.O. Box 1450, Alexandria, Virginia 22313-1450 - WWW.USPTO.GOV

PATENT REEL: 045095 FRAME: 0664

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017363/0370 PAGE 2

FILING DATE: 02/07/2003 SERIAL NUMBER: 10360007 ISSUE DATE: PATENT NUMBER: TITLE: PROTECTING INFORMATION TRANSMISSIONS VIA ENCRYPTION, SUCH AS WITH KEY HOPPING TECHNIQUES IN AN 802.11 WIRELESS NETWORK FILING DATE: 03/25/2005 SERIAL NUMBER: 60665184 ISSUE DATE: PATENT NUMBER: TITLE: METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION SYSTEM FILING DATE: 07/29/2005 SERIAL NUMBER: 60704141 ISSUE DATE: PATENT NUMBER: TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS USING NON-UNIFORM SYMBOL STRUCTURES FILING DATE: 03/25/2005 SERIAL NUMBER: 60665205 ISSUE DATE: PATENT NUMBER: TITLE: METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA NETWORK FILING DATE: 09/28/2005 SERIAL NUMBER: 60721451 ISSUE DATE: PATENT NUMBER: TITLE: METHOD AND APPARATUS FOR MULTI-CARRIER PACKET COMMUNICATION WITH REDUCED OVERHEAD FILING DATE: 01/20/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0501939 TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER, MULTI-CELL WIRELESS COMMUNICATION NETWORKS FILING DATE: 03/09/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0508169 TITLE: METHODS AND APPARATUS FOR RANDOM ACCESS IN MULTI-CARRIER COMMUNICATION SYSTEMS FILING DATE: 06/29/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0523399 TITLE: METHODS AND APPARATUS FOR POWER CONTROL IN MULTI-CARRIER WIRELESS SYSTEMS FILING DATE: 02/14/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0504601 TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATION SYSTEMS WITH ADAPTIVE TRANSMISSION AND FEEDBACK FILING DATE: 04/29/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0514828 TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS WITH VARIABLE CHANNEL BANDWIDTH

017363/0370 PAGE 3

FILING DATE: 02/07/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0503889 TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATION SYSTEMS WITH AUTOMATIC REPEAT REQUEST (ARQ) FILING DATE: 01/27/2005 SERIAL NUMBER: . ISSUE DATE: PATENT NUMBER: 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

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To the Director of the U.S. Patent and Trademark	Office: Please record the attached documents or the new address(es) before
1. Name of conveying party(les):	2. Name and address of receiving party(ies)
Walfical Solutions, Inc.	Name: <u>Neocific, Inc.</u>
	Internal Address:
A STATE A STAT	2. Name and address of receiving party(ies)
3. Nature of conveyance/Execution Date(s):	
Execution Date(s): December 14, 2005	13312 SE 43rd Street
X Assignment Merger Change c	Name
Security Agreement Joint Research Ag	eement City:Bellevue
Government Interest Assignment	State: Washington
Executive Order 9424, Confirmatory License	Country: United States of America Zip: 98006
Other	Additional name(s) & address(es) Yes X No
4. Application or patent number(s):	This document is being filed together with a new application.
A. Patent Application No.(s)	B. Patent No.(s)
US05/01939 US05/04601	US05/03889
10/456,654 10/360,007 US05/08169 US05/14828	US05/03518 US05/14835
US05/23399 60/665,184 60/704,141	60/665,205 60/721,451
60/688,937	bers attached? Yes XNo
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<ol> <li>Name and address to whom correspondence concerning document should be mailed:</li> </ol>	6. Total number of applications and 15 patents involved:
Name: Christopher J. Daley-Wa	
PERKINS COIE LLF	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 600.00 Authorized to be charged by credit card
Internal Address: Atty. Dkt.: 429388000US Street Address: P.O. Box 1247	
	Authorized to be charged to deposit account
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	None required (government interest not affecting till
City: Seattle	8. Payment Information
State: WA Zip: 9	1111-1247 a. Credit Card Last 4 Numbers
Phone Number: (206) 359-8000	Expiration Date
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9. Signature:	
Signature	December 15, 2005 Date
Christopher J. Daley-Wats	
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I hereby certify that this correspondence is being de	osited with the U.S. Postal Service as Express Mail, Airbili No. EV758928963US, dation Services, Director of the US Patent and Trademark Office, P.O. Box 1450,
I in an envelope addressed to: Mo Assignment Recu	Bandh Services, Director of the GO Participant and Mademain Cince, P.O. Sox 1400,
Alexandria, VA 22313-1450t on the date shown bel	

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# 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 43<sup>rd</sup> 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 [JS01/14.835] 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

429388011US

PATENT REEL: 026035 FRAME: 0669

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.

429388011US

Xiaodong Li

Date: 10/6/200	5		
United States of America State of County of On this day personally came described in and who exe of the same.	Cuted the foregoing instrum	2005, before me to me known to be the individual nent, and acknowledged execution Public	

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5 	Titus Lo
Date: <u>10/6/05</u> United States of America State of <u>Hing</u> ss.: County of <u>Hing</u> of <u>October</u> on this <u>6</u> th day of <u>October</u> described in and who executed the foregoing is of the same.	Notary Public

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L- Q-Kemin Li

Date: 10/06/2005	× ·
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Haiming Huang

Date:	10/6/2005		
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## EXHIBIT E4

TO: STEPHANIE OLSON COMPANY: PO BOX 1247



UNITED STATES PATENT AND TRADEMARK OFFICE

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SEPTEMBER 03, 2009

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

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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 US01

ASSIGNOR: LI, XIAODONG	DOC DATE: 10/06/2003	2005
ASSIGNOR: LO, TITUS	DOC DATE: 10/06/200	2005
ASSIGNOR: LI, KEMIN	DOC DATE: 10/06/200!	2005
ASSIGNOR: HUANG, HAIMING	DOC DATE: 10/06/200	2005
ASSIGNEE: WALTICAL SOLUTION, INC. 1750 112TH AVE. NE SUITE D159		

BELLEVUE, WASHINGTON 98004

P.O. Box 1450, Alexandria, Veninia 22313-1480 - www.useto.cov

#### USPTO

TO: STEPHANIE OLSON COMPANY: PO BOX 1247

023175/0461 PAGE 2

FILING DATE: 08/16/2007 SERIAL NUMBER: 11568385 PATENT NUMBER: ISSUE DATE: TITLE: METHODS AND APPARATUS FOR COMMUNICATION WITH TIME-DIVISION DUPLEXING

ASSIGNMENT SERVICES BRANCH PUBLIC RECORDS DIVISION

#### USPTO

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

#### PATENT ASSIGNMENT

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09/01/2009 500951263

SUBMISSION TYPE: NEW ASSIGNMENT						
NATURE OF CONVEYANCE:			ASSIGNMENT			
CONVEYING PARTY	CONVEYING PARTY DATA					
Name Execution Date						
Xaodong Li 10/06/2005						
Titus Lo			~~~~~		10/06/2005	
Kemin Li					10/06/2005	
Halming Huang				*****	10/06/2005	
RECEIVING PARTY (	DATA					
Name:	Waltical Solu	tion, In	G.			
Street Address:	1750 1121h A	Vo. NE	anna an an an an an an an an an an an an			
Internal Address:	Suite D159					
Chy:	Bellevue	Bellsvue				
State/Country:	WASHINGTO	N				
Postal Code: 98004						
PROPERTY NUMBERS Total: 1					<u>ן</u>	
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Application Number:		11568	1385			
CORRESPONDENCE	: DATA	****				
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Email: Correspondent Name	and the second second second second second second second second second second second second second second second					
Address Line 1:	PO Box		•*			
Address Line 2: SEA-PAT						
Address Line 4: Seattle, WASHINGTON 98111-1247						
ATTORNEY DOCKET NUMBER: 61240.8011 US01						
NAME OF SUBMITTE	R:		Stephen C. Bishop			

#### TO: STEPHANIE OLSON COMPANY: PO BOX 1247

Total Attachments: 6

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# EXHIBIT F1





Form PTO-1595 (Rev. 07/05) OMB No. 0651-0027 (exp. 6/30/2008) U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office

RECORDATION FOR	M COVER SHEET
PATENTS	
To the Director of the U.S. Patent and Trademark Office: Please I	
1. Name of conveying party(ies):	2. Name and address of receiving party(ies)
Waltical Solutions, Inc.	Name: Neocific, Inc.
	Internal Address:
Additional name(s) of conveying partylies) attached? Yes X No	Street Address:
3. Nature of conveyance/Execution Date(s):	
Execution Date(s): December 14, 2005	13312 SE 43rd Street
X Assignment Merger Change of Name	
Security Agreement Joint Research Agreement	City: Bellevue
Government Interest Assignment	State: Washington
Executive Order 9424, Confirmatory License	Country: United States of America Zip: 98006
Other	Additional name(s) & address(es) Yes X No attached:
4. Application or patent number(s):	This document is being filed together with a new application.
A. Patent Application No.(s)	B. Patent 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 X No
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and 15
Name: Christopher J. Daley-Watson PERKINS COIE LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 600.00
Internal Address: Atty. Dkt.: 429388000US	Authorized to be charged by credit card
Street Address: P.O. Box 1247	Authorized to be charged to deposit account
	X Enclosed
	None required (government interest not affecting title)
City: Seattle	8. Payment Information
State: WA Zip: 98111-1247	a. Credit Card Last 4 Numbers
Phone Number: (206) 359-8000	Expiration Date
Fax Number: (206) 359-9000	b. Deposit Account Number
Email Address:	Authorized User Name
9. Signature:	
/ / ULIVL	December 15, 2005
Signature	Date
Christopher J. Daley-Watson - 34,807 Name of Person Signing	Total number of pages including cover sheet, attachments, and documents: 5
I hereby certify that this correspondence is being deposited with the	
in an envelope addressed to: MS Assignment Recordation Services Alexandria, VA 22313-1450 on the date shown below.	, Director of the US Patent and Trademark Office, P.O. Box 1450,
Dated: 12/16/05 Signature: 44	Tu flu (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 43<sup>rd</sup> 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.

> 429388001US PATENT REEL: 026035 FRAME: 0682



## 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)	РСТ
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
U\$05/03518	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 Ll, 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	Mər. 25, 2005	Haiming Huang, Xiaodong Li, Titus Lo, Kemin Li	METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION SYSTEM	US

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PATENT REEL: 046035 FRAME: 0683

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, Xlaodong 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

429388001US

PATENT REEL: 026035 FRAME: 0684

Waltical Solutions, Inc. By:

Name: XIAODONG LI Tille: PRESIDENT

December 14, 2005 Date: United States of America State of Washington SS.: County of 2005 On this day of , before me personally came to me known to be the individual XIacdon C described in and who executed the loregoing instrument, and acknowledged execution of the same. \* mle

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Public

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Denembers 10, 2019

429388001US

PATENT REEL: 026035 FRAME: 0685

# 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.

MARCH 25, 2006

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

## PATENT DOCKETING

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PERKINS COIE LLP

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

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RECORDATION DATE: 12/15/2005

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

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

DOCKET NUMBER: 429388000US

ASSIGNOR:

WALTICAL SOLUTIONS, INC.

DOC DATE: 12/14/2005

ASSIGNEE:

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

SERIAL NUMBER: 10456654 PATENT NUMBER: ISSUE DATE: 06/05/2003 ISSUE DATE: TITLE: ADAPTIVE COMMUNICATIONS SYSTEM AND METHOD

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

P.O. Box 1450, Alexandria, Virginia 22313-1450 - www.uspto.gov

PATENT REEL: 045035 FRAME: 0683

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017363/0370 PAGE 2

FILING DATE: 02/07/2003 SERIAL NUMBER: 10360007 ISSUE DATE: PATENT NUMBER: TITLE: PROTECTING INFORMATION TRANSMISSIONS VIA ENCRYPTION, SUCH AS WITH KEY HOPPING TECHNIQUES IN AN 802.11 WIRELESS NETWORK FILING DATE: 03/25/2005 SERIAL NUMBER: 60665184 ISSUE DATE: PATENT NUMBER: TITLE: METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION SYSTEM FILING DATE: 07/29/2005 SERIAL NUMBER: 60704141 ISSUE DATE: PATENT NUMBER: TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS USING NON-UNIFORM SYMBOL STRUCTURES FILING DATE: 03/25/2005 SERIAL NUMBER: 60665205 ISSUE DATE: PATENT NUMBER: TITLE: METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA NETWORK FILING DATE: 09/28/2005 SERIAL NUMBER: 60721451 ISSUE DATE: PATENT NUMBER: TITLE: METHOD AND APPARATUS FOR MULTI-CARRIER PACKET COMMUNICATION WITH REDUCED OVERHEAD FILING DATE: 01/20/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0501939 TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER, MULTI-CELL WIRELESS COMMUNICATION NETWORKS FILING DATE: 03/09/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0508169 TITLE: METHODS AND APPARATUS FOR RANDOM ACCESS IN MULTI-CARRIER COMMUNICATION SYSTEMS FILING DATE: 06/29/2005 SERIAL NUMBER: PATENT NUMBER: ISSUE DATE: PCT NUMBER: US0523399 TITLE: METHODS AND APPARATUS FOR POWER CONTROL IN MULTI-CARRIER WIRELESS SYSTEMS FILING DATE: 02/14/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: PCT NUMBER: US0504601 TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATION SYSTEMS WITH ADAPTIVE TRANSMISSION AND FEEDBACK FILING DATE: 04/29/2005 SERIAL NUMBER: ISSUE DATE: PATENT NUMBER: 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: 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: 04/29/2005PATENT NUMBER:ISSUE DATE:PCT NUMBER: US0514835ISSUE DATE:TITLE: METHODS AND APPARATUS FOR COMMUNICATION WITH TIME-DIVISION DUPLEXING

SHAREILL COLES, EXAMINER ASSIGNMENT SERVICES BRANCH PUBLIC RECORDS DIVISION

To the Director of the U.S. Pr	103141387 atent and Trademark Office: Pleas	e record the attached documents or the new address(es) beidy
1 1. Name of conveying par	ty(les):	2. Name and address of receiving party(ies)
Waltical Solutions, Inc.		Name: Neocific, Inc.
		Internal Address:
Addibonal name(s) of conveying par	ty(ies) attached? Yes XNO	Name: Neocific, Inc.
3. Nature of conveyance/Ex	ecution Date(s):	
Execution Date(s): Decemb	er 14, 2005	13312 SE 43rd Street
X Assignment Mer		
Security Agreement	Joint Research Agreement	City:Bellevue
Government Interest Ass	ignment	State: Washington
Executive Order 9424, C	onfirmatory License	Country: United States of America Zip: 98006
Other		Additional name(s) & address(es) Yes X No
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4. Application or patent nu A. Patent Application No.(s)	have a second second second second second second second second second second second second second second second	This document is being filed together with a new application. B. Patent No.(s)
US05/01939	US05/04601 US05/0388	
10/456,654	10/360,007 US05/0351 US05/14828 US05/1483	
US05/08169 US05/23399	60/665,184 60/665,205	
60/688,937	60/704,141 60/721,451	
	Additional numbers attache	17 Yes X No
5. Name and address to who concerning document sho	m correspondence uld be mailed:	6. Total number of applications and 15 patents involved:
Name: Christop	her J. Daley-Watson RKINS COIE LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 600.00
Internal Address: Atty. Dkt.: 4		Authorized to be charged by credit card
Street Address: P.O. Box		Authorized to be charged to deposit account
		Luiud
		None required (government interest not affecting lift
City:	Seattle	8. Payment Information
State: WA	Zip: <u>98111-1247</u>	a. Credit Card Last 4 Numbers
Phone Number:	(206) 359-8000	Expiration Date
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	ama of Person Signing	shaet, attachments, and documents:
	pondence is being deposited with the MS Assignment Recordation Service	U.S. Postal Service as Express Mail, Airbill No. EV758926963US, s. Director of the US Patent and Trademark Office, P.O. Box 1450,
I hereby certify that this corres in an envelope addressed to:		3 1 17
I hereby certify that this corres in an envelope addressed to: Alexandria, VA 22313-1450 c	in the dale shown below.	

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# EXHIBIT F3

## ASSIGNMENT BY INVENTORS

This Assignment is by Xlaodong LI; Titus Lo; Haiming Huang; Kemin Li, and Jun Meng (the "Assignors"), residing at 9919 129th PL NE, Kirkland, Washington 9803; 13312 SE 43<sup>rd</sup> 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  $U(MT/2, 33.9)^2$ , when known.

Waltical Solution, and, formerly Walbell Technologies, Inc.), a corporation of Washington having its principal place of business at Suite D159, 1750-112th Ave. NE, Bellevue, Washington 380.04 (Assignee''), desires to acquire the entire right, title and interest in and to the *investment* and the Application, and in and to any patents (collectively, "Patents (Schat, 2007) 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 nereby 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

> 429388012US PATENT REEL: 046035 FRAME: 0692

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.

#### 429388012US

Jun Meng

10/6/2m5 Date:

United States of / State of County of	herica <u>لنام</u>	YALss	9 6 59	
On this	day of	<u>October</u> , Jun Mena	2005 to me know	 dual
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Date: <u>19/06/2005</u>	00000000000000000000000000000000000000	•	
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Kiaodong Li

Date: 10/6/2	<i>m5</i> .	
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# EXHIBIT F4

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#### UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND Director of the United States Patent and Trademark Office



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NOVEMBER 09, 2009

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RECORDATION DATE: 11/09/2009	REEL/FRAME: 023491/0061 NUMBER OF PAGES: 9
BRIEF: ASSIGNMENT OF ASSIGNOR'S DOCKET NUMBER: 61240.8012 US01	INTEREST (SEE DOCUMENT FOR DETAILS).
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

P.O. Box 1450, Alexandria, Virginia 22313-1450 - www.uarto.oov

PATENT Reel: 0**26035** Frame: 0**360** 

#### USPTO

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 PATENT NUMBER: ISSUE DATE: TITLE: METHODS AND APPARATUS FOR POWER CONTROL IN MULTI-CARIER WIRELESS SYSTEMS

ASSIGNMENT SERVICES BRANCH PUBLIC RECORDS DIVISION

#### TO:STEPHANIE OLSON COMPANY:PO BOX 1247

### PATENT ASSIGNMENT

Electronic	Version	v1.1
Stylesheet	Version	v1.1

11/09/2009 501010311

SUBMISSION TYPE:			NEW ASSIGNMENT		
NATURE OF CONVEYANCE:			ASSIGNMENT		
CONVEYING PARTY	DATA				
			Jeographi	Execution Date	
Xisodong Li		76 8000000000000000000000000000000000000	lame	10/08/2005	
Tius Lo				10/06/2005	
Haiming Huang				10/06/2005	
Kemin Li				10/06/2005	
Jun Meng				10/06/2005	
RECEIVING PARTY D					
	57 F 27	****			
Nerno:	Wallical Solu	tion, în	С.		
Street Address:	1750 112th A	vø. NE			
internal Address:	Suite D159				
City:	Bellevue				
State/Country:	WASHINGTO	WASHINGTON			
Postal Code:	98004	28004			
PROPERTY NUMBER	S Tatal <sup>,</sup> 1				
					8 8
Property Ty	po		Number		
Application Number:		11569	)084		
CORRESPONDENCE	DATA				
Fax Number: (208)359-9219					
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.					
Email: solson@perkinscole.com Comespondent Name: Stephanie Olson					
Address Line 1: PO Box 1247			200000000		
Address Line 2: SEA-PAT			NUCCEOR OF STREET		
Address Line 4: Seattle, WASHINGTON 98111-1247					
ATTORNEY DOCKET NUMBER:			81240.8012 0801		
NAME OF SUBMITTE	R:		Stephen C. Bishop		

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Total Atlachments: 7

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# EXHIBIT H1

### 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 43<sup>rd</sup> 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.

> 429388001US PATENT REEL: 0**46095** FRAME: 0766

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# <u>SCHEDULE A</u>

Application Number (Patent Number)	Filing Date	Inventor	Title	Ctry
US0501939	Jan. 20, 2005	Xiaodong Li, Titus Lo, Kemin Li, Halming 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
US05/03869	Feb. 7, 2005	Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang	METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS SYSTEMS WITH AUTOMATIC REPEAT REQUEST (ARQ)	TPCT
10/456,654	June 5, 2003	Tius 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
U\$0503518	Jan. 27. 2005	Xlaodong LI, Titus Lo, Kemin LI, Halming 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	Xisodong Li, Tilus Lo, Kemin Li, Haiming Huang	METHOD AND APPARATUS FOR RANDOM ACCESS IN MULTI-CARRIER COMMUNICATION SYSTEMS	PCT
US05/14828	April 29, 2005	Xiaodong Li, Tilus Lo, Kemin Li, Haiming Huang	METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS WITH VARIABLE CHANNEL BANDWIDTH	PCT
US05/14835	April 29, 2005	Xiaodong U, Titus Lo, Kemin U, Halming Huang	METHODS AND APPARATUS FOR COMMUNICATION SYSTEM WITH TIME-DIVISION DUPLEXING	
US05/23399	June 29. 2005	Xiaodong Li, Tilus Lo, Kemin Li, Halming Huang, Jun Meng	METHODS AND APPARATUS FOR POWER CONTROL IN MULTI-CARRIER SYSTEMS	PCT
60/665,184	Mar. 25, 2005	Haiming Huang, Xisodong Li, Titus Lo, Kemin Li	METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION SYSTEM	

429388001US

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

Waltical Solutions, Inc. L By: XIAODONG LI Name: PRESIDENT Tille:\_

Date: Dreember 14, 2005
United States of America ) State of <u>Washington</u> ) ss.: County of <u>Hing</u> )
On this $\underline{ 4 4 }$ day of $\underline{Denkbes}$ , $\underline{2005}$ , before me personally came $\underline{V1a0d0V10}$ L, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same. $\underline{V1a0d0V10}$ L $\underline{V1a0d0V10}$ L L $\underline{V1a0d0V10}$ L L $\underline{V1a0d0V10}$ L L L L L L L L L L L L L L L L L L L

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# EXHIBIT H2

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TO: STEPHANIE OLSON COMPANY: PO BOX 1247



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### **Facsimile Transmission**

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

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

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\*5010105484\*

NOVEMBER 09, 2009

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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

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023492/0200 PAGE 2

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### PATENT ASSIGNMENT

Electronic '	Version v1.1	
Stylesheet	Version v1.1	

11/09/2009 501010546

SUBMISSION TYPE: NEW ASSIGNMENT				
NATURE OF CONVEYANCE: ASSIGNMENT				
CONVEYING PARTY	DATA			
		Name	Execution Date	
Weilical Solutions, Inc			12/14/2005	
RECEIVING PARTY D	ATA			
Name:	Neocific, Inc.			
Street Address:	13312 SE 43rd 8	198)		
City:	Bellevue			
State/Country:	WASHINGTON			
Postsi Code:	98006			
PROPERTY NUMBER	IS Tolal: 1			
Property Type Number				
Application Number: 11571468				
CORRESPONDENCE	DATA			
Fax Number:	(206)359-92	19		
		when the fax attempt is unsuccessful.		
Email: Correspondent Name:	solson@peri Stephania O			
Address Line 1:	PO Box 124			
Address Line 2:	SEA-PAT			
Address Line 4: Seattle, WASHINGTON 96111-1247				
ATTORNEY DOCKET NUMBER: 61240.8016 US02				
NAME OF SUBMITTER: Stephen C. Bishop				
Total Altachments: 4 source=61240.8000 Exec Assignment Waltical to Neoclifc#page1.tlf source=61240.8000 Exec Assignment Waltical to Neoclifc#page2.tlf source=61240.8000 Exec Assignment Waltical to Neoclifc#page3.tlf source=61240.8000 Exec Assignment Waltical to Neoclifc#page4.tlf				

# EXHIBIT H3

### **ASSIGNMENT BY INVENTORS**

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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 43<sup>rd</sup> 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  $\frac{69/655, 20.5}{20.5}$  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 relssues, 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

SYNCH-IP

PATENT REEL: 026035 FRAME: 0366

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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.

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Xiaodong Li

Date: /	0/6/2005	annannannannannannannan. Pos	æ		
United States State of County of	کله خرې د	<u> </u> }s	g.:	•	
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Titus Lo Date: $(3/6/05)$ United States of America State of $(44)$ ss.: County of $(44)$ ss.: County of $(44)$ day of $(26)$ before me personally came $(56)$ before me		
United States of America State of $\underline{WA}$ ss.: County of $\underline{VA}$ ss.: County of $\underline{VA}$ ss.: County of $\underline{VA}$ before me personally came <u>Tilus Lo</u> , to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution		Titus Lo
United States of America State of $\underline{WA}$ ss.: County of $\underline{VA}$ ss.: County of $\underline{VA}$ ss.: County of $\underline{VA}$ before me personally came <u>Tilus Lo</u> , to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution	a la lat	
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County of $\underline{\cancel{fing}}$ On this $\underline{\cancel{fing}}$ day of $\underline{\cancel{October}}$ , $\underline{\cancel{2005}}$ , before me personally came <u>Titus Lo</u> , to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution	United States of America	
On this 6 <sup>th</sup> day of 0 <u>Ctober</u> , 2005, before me personally came <u>Titus Lo</u> , to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution	State of	S
personally came <u>Titus Lo</u> , to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution	County of <u>24/0</u> )	
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<u>1. k.</u> Kemin Li

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State of	<u>()</u> s	36.:	
County of	King )		
on this $b^{+-}$	day of Octob	<u>227. 2005</u> , before me	
personally came	Kemin Li	, to me known to be the Individual	
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of the same.		- RAF-	
	NOTA 91	Notary Public	
		<i>J</i>	

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Date: 10/06/2005

# 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 Oppice



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NOVEMBER 09, 2009

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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.

REEL/FRAME: 023492/0172 RECORDATION DATE: 11/09/2009 NUMBER OF PAGES: 14 BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS). DOCKET NUMBER: 61240.8015 US02 ASSIGNOR: DOC DATE: 10/06/2005 LI, XIAODONG ASSIGNOR: DOC DATE: 10/06/2005 LO, TITUS ASSIGNOR: DOC DATE: 10/06/2005 HUANG, HAIMING ASSIGNOR: DOC DATE: 10/06/2005 LI, KEMIN ASSIGNEE: WALTICAL SOLUTION, INC.

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

P.O. Box 1450, Alexandria, Virginia 22313-1469 - www.uarto.cov

#### USPTO

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

#### 023492/0172 PAGE 2

SERIAL NUMBER: 11571468 PATENT NUMBER: ISSUE 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
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11/09/2009 501010539

SUBMISSION TYPE:			NEW ASSIGNMENT		
NATURE OF CONVEY	ANCE: ASSIGNMENT				
CONVEYING PARTY	DATA				
	Name Execution Date				
Xiacdong Li				10/06/2005	
Titus Lo				10/08/2005	
Heiming Huang				10/06/2005	
Kemin Li				10/08/2005	
RECEIVING PARTY D	ATA				
Name:	Weltical Solu	tion, in	C.		
Street Address:	1750 112th /	we NE			
Internal Address:	Suite D159				
Cłły:	Bellevue				
State/Country:	WASHINGTON				
Postal Code:	28004				
PROPERTY NUMBERS Total: 1					
Property Type		Nænber			
Application Number: 115714		468			
CORRESPONDENCE DATA					
Fax Number:(206)359-9219Correspondence will be sent via US Mail when the fax attempt is unsuccessful.Email:solson@perkinscole.comCorrespondent Name:Stephanie OlsonAddress Line 1:PO Box 1247Address Line 2:SEA-PATAddress Line 4:Seattle, WASHINGTON 98111-1247					
ATTORNEY DOCKET	NUMBER:		61240.8015 US02		
NAME OF SUBMITTER: Stephen C. Bishop					
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#### TO: STEPHANIE OLSON COMPANY: PO BOX 1247

Total Attachments: 12

source=81240.8015 US02 Exec Assignment Inventors to Waltical#page1.tif source=81240.8015 US02 Exec Assignment Inventors to Waltical#page2.tif source=81240.8015 US02 Exec Assignment Inventors to Waltical#page3.tif source=81240.8015 US02 Exec Assignment Inventors to Waltical#page4.tif source=81240.8015 U802 Exec Assignment Inventors to Waltical#page5.tif source=81240.8015 U802 Exec Assignment Inventors to Waltical#page8.tif source=81240.8015 U802 Exec Assignment Inventors to Waltical#page9.tif source=81240.8015 U802 Exec Assignment Inventors to Waltical#page1.tif source=81240.8015 U802 Exec Assignment Inventors to Waltical#page10.tif source=81240.8015 U802 Exec Assignment Inventors to Waltical#page10.tif source=81240.8015 U802 Exec Assignment Inventors to Waltical#page11.tif source=81240.8015 U802 Exec Assignment Inventors to Waltical#page11.tif source=81240.8015 U802 Exec Assignment Inventors to Waltical#page12.tif

# EXHIBIT I-1

### ASSIGNMENT

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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 43<sup>rd</sup> Street, Bellevue, Washington 98006 (hereinalter 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, relssue 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.

> 429388001US PATENT REEL: 0**46035** FRAME: 0**323**

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# <u>SCHEDULE A</u>

Application Number	Filing Date	Inventor	Title	Ctry
(Patent <u>Number)</u>			METHODS AND APPARATUS	PCT
<u>JS05001939</u>	Jan. 20, 2005	Xiaodong Li, Titus Lo, Kemin Li, Haiming Huang	FOR MULTI-CARRIER, MULTI- CELL WIRELESS COMMUNICATION NETWORKS	
<u>JS05/04601</u>	Feb. 14. 2005	Xiaodong Li, Tilus Lo, Kemin Li, Haiming Huang	METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS SYSTEMS WITH ADAPTIVE TRANSMISSION AND FEEDBACK	PCT
U\$05/03889	Feb. 7, 2005	Xiaodong Li, Tilus 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	Tilus 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
U\$0503518	Jan. 27. 2005	Xtaodong 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, Halming 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, Tilus Lo, Kemin Li, Haiming Huang	METHODS AND APPARATUS FOR COMMUNICATION SYSTEM WITH TIME-DIVISION DUPLEXING	
U\$05/23399	June 29. 2005	Xiaodong Li, Tilus Lo, Kemin Li, Haiming Huang, Jun Meng	METHODS AND APPARATUS FOR POWER CONTROL IN MULTI-CARRIER SYSTEMS	PCT
60/685,184	Mør. 25, 2005	Haiming Huang, Xleodong Li, Titus Lo, Kemin Li	METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION SYSTEM	US

## 429388001US

60/665,205	Mar. 25, 2005	Halming Huang, Xlaodong Li, Titus Lo, Kemin Li	METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA NETWORKS	US
60/688,937	June 9, 2005	Haiming Husng, Xisodong 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, Xlaodong U.Kemin U, Halming Huang	METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS USING NON-UNIFORM SYMBOL STRUCTURES	US
60/721,451	Sept. 28, 2005	Xiaodong Li, Halming Huang, Titus Lo, Ruileng Wang	METHOD AND APPARATUS FOR MULTI-CARRIER PACKET COMMUNICATION WITH REDUCED OVERHEAD	US

Waltical Solutions, Inc. By: XIAODONG LI Name: PRESIDENT Tille:

Dale: <u>JXC</u>	embes 14, 2005				
United States o	f America	, control			
State of	<u>Wadlington</u>	) ss.:			
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# EXHIBIT I-2

TO:STEPHANIE OLSON COMPANY: PO BOX 1247



# UNITED STATES PATENT AND TRADEMARK OFFICE

### **Facsimile Transmission**

To:

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

From:

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

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

### Fax Notes:

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

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


UNITED STATES PATENT AND TRADEMARK OFFICE

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



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NOVEMBER 09, 2009

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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: 023492/0371 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 PATENT NUMBER: TITLE: METHODS AND APPARATUS FOR POWER EFFICIENT BROADCASTING AND COMMUNICATION SYSTEMS

P.O. Box 1450, Alexandria, Vaginia 22313-1459 - www.useto.cov

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ASSIGNMENT SERVICES BRANCH PUBLIC RECORDS DIVISION

TO: STEPHANIE OLSON COMPANY: PO BOX 1247

#### PATENT ASSIGNMENT

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SUBMISSION TYPE:			NEW ASSIGNMENT		
NATURE OF CONVEY	IATURE OF CONVEYANCE: ASSIGNMENT				
CONVEYING PARTY	DATA			xxxxxx,0000000000000000000000000000000	
		N.	ane	Execution Date	
Waltical Solutions, Inc	2.		-	12/14/2005	
RECEIVING PARTY D	IATA				
Name:	Neocific, Inc.				Y
Street Address:	13312 8E 43	ird Stre	et		
City:	Bellevue				
State/Country:	WASHINGTO	ON .			
Postal Code:	198008				
PROPERTY NUMBERS Total: 1					
Property Ty	Property Type Number				
Application Number: 11571489					
CORRESPONDENCE DATA					
Fax Number:	P., M., Lon (078)020 0040				
			hen the fax attempt is unsuccessful.		
Email: Correspondent Name:	~		scols.com m		07
Addresse Line 1:	PO Box		2F0		
Address Line 2:	SEA-PA				
Address Line 4:	Seattle,	WASH	INGTON 98111-1247	urran arkan a sha a ka na k	
ATTORNEY DOCKET NUMBER: 61240.8018 U801					
NAME OF SUBMITTER: Stephen C. Bishop					
Total Atlachments: 4 source=81240.8000 Exec Assignment Waltical to Neoclific#page1.tlf source=81240.8000 Exec Assignment Waltical to Neoclific#page2.tlf source=81240.8000 Exec Assignment Waltical to Neoclific#page3.tlf source=81240.8000 Exec Assignment Waltical to Neoclific#page4.tlf					

# 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 43<sup>rd</sup> 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 Go/6dd, 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

#### Time-slice

PATENT REEL: 0**26035** FRAME: 0788

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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.

Time-slice

PATENT REEL: 026035 FRAME: 0389

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Xiaodong Li

Date:
United States of America State of
County of <u>King</u>
On this day of October, before me
personally came Xiaodong L , 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
Date: 10/6/05	•
United States of America	
State of	
County of <u>Vina</u> )	
On this 6th day of Octobe	
described in and who executed the foregoing is	
of the same.	Notary Public H

			CAD	
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	<u>L</u> Kemin Li
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County of <u><u></u><u></u><u><u></u><u></u><u></u><u><u></u><u></u><u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u></u></u>	
On this 6th day of	October, 2005, before me
personally came	Kemin Li , to me knowp-to be the individual
described in and who execute	id the foregoing instrument, and agknowledged execution
of the same.	AST.
	Notary Public
State of the second second	10.2% State

. \*.

# EXHIBIT I-4



UNITED STATES PATENT AND TRADEMARK OFFICE

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



\*50101053804\*

NOVEMBER 09, 2009

ptas

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

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

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. FATENT 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 STOF: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 11/09/2009 REEL/FRAME: 023492/0350 NUMBER OF PAGES: 8

BRIEF: 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, XEMIN	DOC	DATE:	10/06/2005
ASSIGNEE: WALTICAL SOLUTION, INC.			

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

P.O. Box 1460, Alexandria, Virginia 22313-1489 - www.uarto.cov

#### USPTO

#### TO:STEPHANIE OLSON COMPANY:PO BOX 1247

#### 023492/0350 PAGE 2

SERIAL NUMBER: 11571469 PATENT NUMBER: TITLE: METHODS AND APPARATUS FOR FOWER EFFICIENT BROADCASTING AND COMMUNICATION SYSTEMS

ASSIGNMENT SERVICES BRANCH PUBLIC RECORDS DIVISION

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## PATENT ASSIGNMENT

Electronic	Version	v1.1	
Stylesheet	Version	v1.	1

11/09/2009 501010580

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SUBMISSION TYPE:		000000000000000000000000000000000000000	NEW ASSIGNMENT		
NATURE OF CONVEY	IVEYANCE: ASSIGNMENT				
CONVEYING PARTY I	DATA				
			lame	Execution Date	
Xiaodong Li				10/08/2005	
Titus Lo		000000000000000000000000000000000000000		10/08/2005	
Heiming Hueng				10/08/2005	
Kemin Li		***************************************		10/08/2005	
					•
RECEIVING PARTY D	AIA				9 9
Name:	Waltical Solu	tion, ind	¢.		
Street Address:	1750 112ih A	ve. Ne			
Internal Address:	Suite D159	Suite D159			
City:	Bellevue	Bellovue			
State/Country:	WASHINGTON				
Posial Code:	98004				
PROPERTY NUMBERS Total: 1					
Property Type Number					
Application Number: 115714		11571	469		
	93.8.99° A				
CORRESPONDENCE	UAIA				
Fax Number: (206)359-9219					
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.					
Email: solson@perkinscole.com					
Correspondent Name: Stephanie Olson Address Line 1: PO Box 1247					
Address Line 2: SEA-PAT					
Address Line 4: 8eantle, WASHINGTON 98111-1247					
ATTORNEY DOCKET NUMBER: 61240.8018 US01					
NAME OF SUBMITTER: Stephen C. Bishop					
				***************************************	
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Total Attachments: 6

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# EXHIBIT J

## **Corporations Division**

Corporations Home

Charities Home Awards

**Public Notices** 

#### Search Results

Viewing 1 - 1 of 1 results for "waltical"

#### 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
<b>Expiration Date</b>	11/30/2011
Inactive Date	
Registered Agent Info	ormation
Agent Name	TITUS LO
Address	13312 SE 43RD ST
City	BELLEVUE
State	WA
ZIP	98006
Special Address Info	mation
Address	
City	
State	
Zip	
View Additional Informa	ition »

Purchase Documents for this Corporation »

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Phone Numbers | Privacy Policy | Accessibility Washington Secretary of State · Corporations Division 801 Capitol Way South Translate our site into: Select Language

Page 1 of 2

Whereas in 2005, <u>XIADDWG</u>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.

LT

XIAODONG

2/7/2018

By (Signature):

Name (Print):

Date:

Whereas in 2005, <u><u>TITUS</u> <u>("Inventor")</u> 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.</u>

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

Whereas in 2005, <u>Haiming</u> 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 Solution<u>s</u>, 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):	thong Herining
Name (Print):	Haiming Huang
Date:	02/07/2018

Whereas in 2005, <u>KEMIN LI</u> ("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):	6.10		
Name (Print):	KEMIN	LI	
Date:	02/08/2	2018	

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**RECORDED: 04/28/2018**