PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the spelling of the assignee's name previously recorded on Reel 023491 Frame 0649. Assignor(s) hereby confirms the correct spelling of the assignee's name is Waltical Solutions, Inc.

CONVEYING PARTY DATA

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

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	10583158

CORRESPONDENCE DATA

Fax Number: (206)359-7198

Email: assignmentconfirmations@perkinscoie.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: Perkins Coie LLP Patent - SEA

Address Line 1: P.O. Box 1247

Address Line 4: Seattle, WASHINGTON 98111-1247

ATTORNEY DOCKET NUMBER:	61240-8008.US01
NAME OF SUBMITTER:	Stephen C. Bishop

501699819 REEL: 027107 FRAME: 0113

OP \$40.00 10583158

Total Attachments: 191 source=CorrectiveAssignmentAsFiled#page1.tif source=CorrectiveAssignmentAsFiled#page2.tif source=CorrectiveAssignmentAsFiled#page3.tif source=CorrectiveAssignmentAsFiled#page4.tif source=CorrectiveAssignmentAsFiled#page5.tif source=CorrectiveAssignmentAsFiled#page6.tif source=CorrectiveAssignmentAsFiled#page7.tif source=CorrectiveAssignmentAsFiled#page8.tif source=CorrectiveAssignmentAsFiled#page9.tif source=CorrectiveAssignmentAsFiled#page10.tif source=CorrectiveAssignmentAsFiled#page11.tif source=CorrectiveAssignmentAsFiled#page12.tif source=CorrectiveAssignmentAsFiled#page13.tif source=CorrectiveAssignmentAsFiled#page14.tif source=CorrectiveAssignmentAsFiled#page15.tif source=CorrectiveAssignmentAsFiled#page16.tif source=CorrectiveAssignmentAsFiled#page17.tif source=CorrectiveAssignmentAsFiled#page18.tif source=CorrectiveAssignmentAsFiled#page19.tif source=CorrectiveAssignmentAsFiled#page20.tif source=CorrectiveAssignmentAsFiled#page21.tif source=CorrectiveAssignmentAsFiled#page22.tif source=CorrectiveAssignmentAsFiled#page23.tif source=CorrectiveAssignmentAsFiled#page24.tif source=CorrectiveAssignmentAsFiled#page25.tif source=CorrectiveAssignmentAsFiled#page26.tif source=CorrectiveAssignmentAsFiled#page27.tif source=CorrectiveAssignmentAsFiled#page28.tif source=CorrectiveAssignmentAsFiled#page29.tif source=CorrectiveAssignmentAsFiled#page30.tif source=CorrectiveAssignmentAsFiled#page31.tif source=CorrectiveAssignmentAsFiled#page32.tif source=CorrectiveAssignmentAsFiled#page33.tif source=CorrectiveAssignmentAsFiled#page34.tif source=CorrectiveAssignmentAsFiled#page35.tif source=CorrectiveAssignmentAsFiled#page36.tif source=CorrectiveAssignmentAsFiled#page37.tif source=CorrectiveAssignmentAsFiled#page38.tif source=CorrectiveAssignmentAsFiled#page39.tif source=CorrectiveAssignmentAsFiled#page40.tif source=CorrectiveAssignmentAsFiled#page41.tif source=CorrectiveAssignmentAsFiled#page42.tif source=CorrectiveAssignmentAsFiled#page43.tif source=CorrectiveAssignmentAsFiled#page44.tif source=CorrectiveAssignmentAsFiled#page45.tif source=CorrectiveAssignmentAsFiled#page46.tif source=CorrectiveAssignmentAsFiled#page47.tif source=CorrectiveAssignmentAsFiled#page48.tif source=CorrectiveAssignmentAsFiled#page49.tif source=CorrectiveAssignmentAsFiled#page50.tif source=CorrectiveAssignmentAsFiled#page51.tif source=CorrectiveAssignmentAsFiled#page52.tif

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Docket No.: 612408000

(PATENT)

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: 10/19/2011

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

EXHIBIT A1

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		
PATENTS ONLY		
To the Director of the U.S. Patent and Trademark Office: Please	record the attached documents or the new address(es) below.	
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):	40040 07 40 104 44	
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 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	
	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:	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 22313-1450t on the date shown below.		
Dated: 12/16/05 Signature: /www.	two flum (Peter Sher)	

ASSIGNMENT

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

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

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

429388001US

SCHEDULE A

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

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

Waltical Solutions, Inc.
By: Hefted
Name: XIADDONG LI
Title: PRESIDENT
Date: December 14, 2005
United States of America) State of Washington) ss.: County of King)
On this 1414 day of <u>Davenbase</u> , 2005, 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. Notable Public Notable Public
MOTAR, IN COMMBCP. DEVENDER 10, 2000

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.

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8002

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

DOCKETED

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

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

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

RECORDATION DATE: 12/15/2005

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

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

DOCKET NUMBER: 429388000US

ASSIGNOR:

WALTICAL SOLUTIONS, INC.

DOC DATE: 12/14/2005

ASSIGNEE:

NEOCIFIC, INC.

13312 SE 43RD STREET

BELLEVUE, WASHINGTON 98006

SERIAL NUMBER: 10456654

FILING DATE: 06/05/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: ADAPTIVE COMMUNICATIONS SYSTEM AND METHOD

SERIAL NUMBER: 60688937

FILING DATE: 06/09/2005

PATENT NUMBER:

ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR A POWER EFFICIENT BROADCASTING AND

COMMUNICATION SYSTEM

017363/0370 PAGE 2

SERIAL NUMBER: 10360007 FILING DATE: 02/07/2003

PATENT NUMBER: ISSUE DATE:

TITLE: PROTECTING INFORMATION TRANSMISSIONS VIA ENCRYPTION, SUCH AS WITH

KEY HOPPING TECHNIQUES IN AN 802.11 WIRELESS NETWORK

SERIAL NUMBER: 60665184 FILING DATE: 03/25/2005

PATENT NUMBER: ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION

SYSTEM

SERIAL NUMBER: 60704141 FILING DATE: 07/29/2005

PATENT NUMBER: ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS USING NON-

UNIFORM SYMBOL STRUCTURES

SERIAL NUMBER: 60665205 FILING DATE: 03/25/2005

PATENT NUMBER: ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA

NETWORK

SERIAL NUMBER: 60721451 FILING DATE: 09/28/2005

PATENT NUMBER: ISSUE DATE:

TITLE: METHOD AND APPARATUS FOR MULTI-CARRIER PACKET COMMUNICATION WITH

REDUCED OVERHEAD

SERIAL NUMBER: FILING DATE: 01/20/2005

PATENT NUMBER: ISSUE DATE:

PCT NUMBER: US0501939

TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER, MULTI-CELL WIRELESS

COMMUNICATION NETWORKS

SERIAL NUMBER: FILING DATE: 03/09/2005

PATENT NUMBER: ISSUE DATE:

PCT NUMBER: US0508169

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

COMMUNICATION SYSTEMS

SERIAL NUMBER: FILING DATE: 06/29/2005

PATENT NUMBER: ISSUE DATE:

PCT NUMBER: US0523399

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

SYSTEMS

SERIAL NUMBER: FILING DATE: 02/14/2005

PATENT NUMBER: ISSUE DATE:

PCT NUMBER: US0504601

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

ADAPTIVE TRANSMISSION AND FEEDBACK

SERIAL NUMBER: FILING DATE: 04/29/2005

PATENT NUMBER: ISSUE DATE:

PCT NUMBER: US0514828

TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS WITH

VARIABLE CHANNEL BANDWIDTH

017363/0370 PAGE 3

SERIAL NUMBER:

FILING DATE: 02/07/2005

PATENT NUMBER:

ISSUE DATE:

PCT NUMBER: US0503889

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

AUTOMATIC REPEAT REQUEST (ARQ)

SERIAL NUMBER:

FILING DATE: 01/27/2005

PATENT NUMBER:

ISSUE DATE:

PCT NUMBER: US0503518

TITLE: METHODS AND APPARATUS FOR OVERLAYING MULTI-CARRIER AND DIRECT

SEQUENCE SPREAD SPECTRUM SIGNAL IN A BROADBAND WIRELESS

COMMUNICATION SYSTEM

SERIAL NUMBER:

FILING DATE: 04/29/2005

PATENT NUMBER:

ISSUE DATE:

PCT NUMBER: US0514835

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

SHAREILL COLES, EXAMINER
ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

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

12-21-2005



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

₹ SHEET

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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) below.			
Name of conveying party(les):	2. Name and address of receiving party(ies) Name: Neocific, Inc. Internal Address: Street Address:		
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):	C.		
	- m-1		
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		
	Additional name(s) & address(es) Yes X No		
Other	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 10/350,007 US05/03518 US05/09460 US05/14828 US05/14835			
1505/23300 60/665,184 60/665,205			
60/688,937 60/704,141 60/721,451			
Additional numbers attached?	Yes X No		
Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:		
Name: Christopher J. Daley-Watson			
PERKINS COIÉ 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:	December 45, 2005		
Signature			
Christopher J. Daley-Watson - 34,807	Total complementary in the first control of		
Name of Person Signing	sheet, attachments, and documents:		
I hereby certify that this correspondence is being deposited with the L	J.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.	Director of the US Patent and Trademark Office, P.O. Box 1450,		
Dated: 12/18/07 Signature:	(Peter Sher)		
R 00000048 PCT/US05/01939			

12/20/2005 ECOO 600.00 OP 01 FC:8021

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 USOS/O460I 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

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

	Xiaodong Li
State of County	to me known to be the individual and instrument, and acknowledged execution Notary Public

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			Titus Lo	
Date: 1/2 3 2	eit			
United States of America State of County of On this day personally came described in and who exe of the same.		, <u>D</u> v	before nown to be the ideacknowledged	ngividuai

		Hours.	Hanny
		Haimi	ing Huang
United States of State of County of	f America Continue Conti	- to maken	, before me own to be the individual acknowledged execution
	PUBLIC ST. A. C. T.	Notary Public	Yes grant of the second of the

		Kemin Li
Date: Apr 3.	2005	
United States of America State of Michigan	ashington)s	ss.:
County of <u>K</u>	11-g	
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of the same.	M. TANGEL	Handland \$
AMMITTER PROPERTY.	OTARY OTARY OPUBLIC SO	Notary Public

EXHIBIT A4

TO:STEPHANIE OLSON COMPANY:PO BOX 1247



United States Patent and Trademark Office

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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

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

RECORDATION DATE: 11/05/2009

REEL/FRAME: 023479/0163

NUMBER OF PAGES: 8

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

ASSIGNOR:

LI, XIAODONG

DOC DATE: 04/08/2005

ASSIGNOR:

LO, TITUS

DOC DATE: 04/08/2005

ASSIGNOR:

HUANG, HAIMING

DOC DATE: 04/08/2005

ASSIGNOR:

LI, KEMIN

DOC DATE: 04/08/2005

ASSIGNEE:

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

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

PATENT

USPTO

11/6/2009 8:47:55 AM PAGE 3/005 Fax Server

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

023479/0163 PAGE 2

SERIAL NUMBER: 10583529

FILING DATE: 05/10/2007

PATENT NUMBER:

ISSUE DATE:

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

ADAPTIVE TRANSMISSION AND FEEDBACK

ASSIGNMENT SERVICES BRANCH PUBLIC RECORDS DIVISION

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

PATENT ASSIGNMENT Electronic Version v1.1 11/05/2009 501008023 Stylesheet Version v1.1 **SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT CONVEYING PARTY DATA** Name **Execution Date** Xiaodong Li 04/08/2005 04/08/2005 Titus Lo 04/08/2005 Halming Huang Kemin Li 04/08/2005 **RECEIVING PARTY DATA** Name: Waltical Solution, Inc. Street Address: 112th Ave. NE Internal Address: Suite D159 City: Bellevue State/Country: WASHINGTON 98004 Postel Code: **PROPERTY NUMBERS Total: 1** Number **Property Type** \$40.00 10583529 Application Number: **CORRESPONDENCE DATA** Fax Number: (206)359-9219 Correspondence will be sent via US Mail when the fax attempt is unsuccessful. scison@perkinscole.com Stephanie Olson Correspondent Name: PO Box 1247 Address Line 1: SEA-PAT Address Line 2: Seattle, WASHINGTON 98111-1247 Address Line 4: ATTORNEY DOCKET NUMBER: 61240.8002 US01 NAME OF SUBMITTER: Stephen C. Bishop

PATENT

USPTO 11/6/2009 8:47:55 AM PAGE 5/005 Fax Server

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

Total Attachments: 6
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source=61240.8002 US01 Exec Assignment Inventors to Waltical#page2.tif
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source=61240.8002 US01 Exec Assignment Inventors to Waltical#page4.tif
source=61240.8002 US01 Exec Assignment Inventors to Waltical#page5.tlf

source=81240.8002 US01 Exec Assignment Inventors to Waltical#page8.tif

EXHIBIT B1

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	The state of the s				
PATENTS	PATENTS ONLY				
To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.					
Name of conveying party(ies):	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 60/688,937 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 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				
	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 Fax Number: (206) 359-9000	Expiration Date				
Fax Number: (206) 359-9000 Email Address:	b. Deposit Account Number				
9. Signature:					
[// LI IVL	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 tin an envelope addressed to: MS Assignment Recordation Services,	U.S. Postal Service as Express Mail, Airbill No. EV758928963US, Director of the US Patent and Trademark Office, P.O. Box 1450,				
Alexandria, VA 22313-1450; on the date shown below. Dated: 12/16/01 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 43rd Street, Bellevue, Washington 98006 (hereinafter referred to as "Assignee"), desires to acquire the right, title and interest in, to and under said Patent Applications and the inventions covered thereby;

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

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

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

Waltical Solutions, Inc.
By: Wifted
Name: XIADDONG LI
Title: PRESIDENT
Date: December 14, 2005
United States of America)
State of Washington) ss.:
County of King)
On this 1414 day of December, 2005, before me
personally came
described in and who executed the foregoing instrument, and acknowledged execution
of the same.
Fellman 12 Manily
July 1 YMA
Notary Public
My comm. exp. Devenber 10, 2000
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EXHIBIT B2



UNITED STATES PATENT AND TRADEMARK OFFICE

Under Secretary of Commerce for Intellectual Property and DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MARCH 25, 2006

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

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PERKINS COIE LLP

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RECORDATION DATE: 12/15/2005

REEL/FRAME: 017363/0370

NUMBER OF PAGES: 5

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

DOCKET NUMBER: 429388000US

ASSIGNOR:

WALTICAL SOLUTIONS, INC.

DOC DATE: 12/14/2005

ASSIGNEE:

NEOCIFIC, INC.

13312 SE 43RD STREET

BELLEVUE, WASHINGTON 98006

SERIAL NUMBER: 10456654

FILING DATE: 06/05/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: ADAPTIVE COMMUNICATIONS SYSTEM AND METHOD

SERIAL NUMBER: 60688937

FILING DATE: 06/09/2005

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

PATENT

017363/0370 PAGE 2

SERIAL NUMBER: 10360007 FILING DATE: 02/07/2003

PATENT NUMBER: ISSUE DATE:

TITLE: PROTECTING INFORMATION TRANSMISSIONS VIA ENCRYPTION, SUCH AS WITH

KEY HOPPING TECHNIQUES IN AN 802.11 WIRELESS NETWORK

SERIAL NUMBER: 60665184 FILING DATE: 03/25/2005

PATENT NUMBER: ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION

SYSTEM

SERIAL NUMBER: 60704141 FILING DATE: 07/29/2005

PATENT NUMBER: ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS USING NON-

UNIFORM SYMBOL STRUCTURES

SERIAL NUMBER: 60665205 FILING DATE: 03/25/2005

PATENT NUMBER: ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA

NETWORK

SERIAL NUMBER: 60721451 FILING DATE: 09/28/2005

PATENT NUMBER: ISSUE DATE:

TITLE: METHOD AND APPARATUS FOR MULTI-CARRIER PACKET COMMUNICATION WITH

REDUCED OVERHEAD

SERIAL NUMBER: FILING DATE: 01/20/2005

PATENT NUMBER: ISSUE DATE:

PCT NUMBER: US0501939

TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER, MULTI-CELL WIRELESS

COMMUNICATION NETWORKS

SERIAL NUMBER: FILING DATE: 03/09/2005

PATENT NUMBER: ISSUE DATE:

PCT NUMBER: US0508169

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

COMMUNICATION SYSTEMS

SERIAL NUMBER: FILING DATE: 06/29/2005

PATENT NUMBER: ISSUE DATE:

PCT NUMBER: US0523399

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

SYSTEMS

SERIAL NUMBER: FILING DATE: 02/14/2005

PATENT NUMBER: ISSUE DATE:

PCT NUMBER: US0504601

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

ADAPTIVE TRANSMISSION AND FEEDBACK

SERIAL NUMBER: FILING DATE: 04/29/2005

PATENT NUMBER: ISSUE DATE:

PCT NUMBER: US0514828

TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS WITH

VARIABLE CHANNEL BANDWIDTH

017363/0370 PAGE 3

SERIAL NUMBER:

FILING DATE: 02/07/2005

PATENT NUMBER:

ISSUE DATE:

PCT NUMBER: US0503889

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

AUTOMATIC REPEAT REQUEST (ARQ)

SERIAL NUMBER:

FILING DATE: 01/27/2005

PATENT NUMBER:

ISSUE DATE:

PCT NUMBER: US0503518

TITLE: METHODS AND APPARATUS FOR OVERLAYING MULTI-CARRIER AND DIRECT

SEOUENCE 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

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

12-21-2005



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

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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) below.
1. Name of conveying party(les):	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	2. Name and address of receiving party(ies) Name: Neocific, Inc. Internal Address: Street Address:
3. Nature of conveyance/Execution Date(s):	
Execution Date(s): December 14, 2005	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	
60/688,937	
Additional numbers attached	Yes X No
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and 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
	X Enclosed
	None required (government interest not affecting title)
City: Seattle	8. Payment Information
14/4 7 09411 12/7	
State: WA Zip: 98111-1247	a. Credit Card Last 4 Numbers
State: WA Zip: 96111-1241 Phone Number: (206) 359-8000	a. Credil Card Last 4 Numbers Expiration Date
(000) 870 0000	
Phone Number: (206) 359-8000	Expiration Date
Phone Number: (206) 359-8000 Fax Number: (206) 359-9000	Expiration Date b. Deposit Account Number
Phone Number: (206) 359-8000 Fax Number: (206) 359-9000 Email Address: 9. Signature:	Expiration Date b. Deposit Account Number Authorized User Name December 15, 2005
Phone Number: (206) 359-8000 Fax Number: (206) 359-9000 Email Address:	Expiration Date b. Deposit Account Number Authorized User Name December 15, 2005 Date
Phone Number: (206) 359-8000 Fax Number: (206) 359-9000 Email Address: 9. Signature: Christopher J. Daley-Watson - 34,807	Expiration Date b. Deposit Account Number Authorized User Name December 15, 2005 Date Total number of pages including cover
Phone Number: (206) 359-8000 Fax Number: (206) 359-9000 Email Address: 9. Signature: Christopher J. Daley-Watson - 34,807 Name of Person Signing	Expiration Date b. Deposit Account Number Authorized User Name December 15, 2005 Date Total number of pages including cover sheet, attachments, and documents: 5
Phone Number: (206) 359-8000 Fax Number: (206) 359-9000 Email Address: 9. Signature: Christopher J. Daley-Watson - 34,807 Name of Person Signing I hereby certify that this correspondence is being deposited with the in an envelope addressed to: MS Assignment Recordation Services	Expiration Date b. Deposit Account Number Authorized User Name December 15, 2005 Date Total number of pages including cover sheet, attachments, and documents: U.S. Postal Service as Express Mail. Airbill No. EV758928963US.
Phone Number: (206) 359-8000 Fax Number: (206) 359-9000 Email Address: 9. Signature: Christopher J. Daley-Watson - 34,807 Name of Person Signing	Expiration Date b. Deposit Account Number Authorized User Name December 15, 2005 Date Total number of pages including cover sheet, attachments, and documents: U.S. Postal Service as Express Mail. Airbill No. EV758928963US.

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

EXHIBIT B3

ASSIGNMENT BY INVENTORS

This Assignment is by Xiaodong Li; Titus Lo; Haiming Huang; and Kemin Li (the "Assignors"), residing at 9919 129th PL NE, Kirkland, Washington 98033; 10501 181st Ave. NE, Redmond, Washington 98052; 605 141st CT SE #D203, Bellevue, Washington 98007; and 4228 144th LN SE, Bellevue, 98006, respectively. The Assignors have invented one or more certain inventions (the "Invention(s)") described in a Patent application for Letters Patent of the United States entitled METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATION SYSTEMS WITH ARQ (the "Application"), executed concurrently herewith and naming the Assignors as inventors. The Assignors authorize the Assignee, identified below, or its representatives to insert the application number of the Application (1501/0381) 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

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.

2

•	Xiaodong Li
Date: 外介 i i	
United States of America State of County of	ss.:
On this day of Notice Xiaodong Li described in and who executed the foregoli	to me known to be the individual ng instrument, and acknowledged execution
of the same.	Notary Public San Ton
SHING TO SHI	

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Date: Ahr 3	? છરી_	<u> </u>	•			
United States of Ame State of County of On this	Washing Linguistrates and design	Aptil	s.: '	20 = 5 , to me known	, before r to be the in	dividual
described in and who of the same.	o execute	d the foregoing	instrum	ent, and ackno	wledged e	xecution
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	huap, ltimby
	Haiming Huang
United States of America State of County of On this day of Haiming	ss.: 20-5, before me to me known to be the individual
described in and who executed the of the same.	foregoing instrument, and acknowledged execution
A CONTRACTION OF WASHINGTON OF WASH	Notary Public

			ت	(C)	
		•		Kemin Li	
Date:	y Š z	.ac5	•		
United States o State of County of	f America Wa	shington)	ss.:		
On this <u>S</u> personally cam described in an of the same.	8	Kernin LI scuted the foregoing M. T. A. C.	, to m	Nav.	e individual

EXHIBIT B4

10/30/2008 5:49:16 AM PAGE 1/005 Fax Server

TO:STEPHANIE OLSON COMPANY:PO BOX 1247



UNITED STATES PATENT AND TRADEMARK OFFICE

Facsimile Transmission

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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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2/005

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UNITED STATES PATENT AND TRADEMARK OFFICE

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500689955A

OCTOBER 29, 2008

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

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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

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

USPTO 10/30/2008 5:49:16 AM PAGE 3/005 Fax Server

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

PATENT NUMBER:

FILING DATE:

ISSUE DATE:

PCT NUMBER: US0503889

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

AUTOMATIC REPEAT REQUEST

TONYA LEE, EXAMINER ASSIGNMENT SERVICES BRANCH PUBLIC RECORDS DIVISION

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

PATENT ASSIGNMENT 10/29/2008 Electronic Version v1.1 500689955 Stylesheet Version v1.1 CORRECTIVE ASSIGNMENT **SUBMISSION TYPE:** Corrective Assignment to correct the Assignor: LI, Xiadong previously recorded on Reel 021690 Frame 0365. Assignor(s) heraby confirms the This Assignment NATURE OF CONVEYANCE: is by Xiaodong Li; Titus Lo; Haiming Huang; and Kemin Li (the "Assignors"). **CONVEYING PARTY DATA Execution Date** Name 04/08/2005 Xiaodong Li 04/08/2005 Titus Lo 04/08/2005 Haiming Huang 04/08/2005 Kemin Li **RECEIVING PARTY DATA** Name: Waltical Sciution, Inc. Street Address: 1750 112th Ave. NE Internal Address: Suite D159 City: Bellevue State/Country: WASHINGTON 88004 Postal Code: **PROPERTY NUMBERS Total: 1** Number Property Type PCT Number: US0503889 **CORRESPONDENCE DATA** Fax Number: (206)359-9219 Correspondence will be sent via US Mail when the fex attempt is unsuccessful. salson@perkinscole.com Emali: Stephanie Oison Correspondent Name: PO Box 1247 Address Line 1: SEA-PAT Address Line 2: Seattle, WASHINGTON 98111-1247 Address Line 4: B1240.8003 US01 ATTORNEY DOCKET NUMBER: Stephen C. Bishop NAME OF SUBMITTER:

PATENT

USPTO 10/30/2008 5:49:16 AM PAGE 5/005 Fax Server

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PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the Assignor: Li, Xiadong previously recorded on Reel 021690 Frame 0365. Assignor(s) hereby confirms the This Assignment is by Xiaodong Li; Titus Lo; Haiming Huang; and Kemin Li (the "Assignors").

CONVEYING PARTY DATA

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

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
PCT Number:	US0503889

CORRESPONDENCE DATA

Fax Number:

(206)359-9219

Correspondence will be sent via US Mail when the fax attempt is unsuccessful. Email: solson@perkinscoie.com Correspondent Name: Stephanie Olson Address Line 1: PO Box 1247 Address Line 2: SEA-PAT Address Line 4: Seattle, WASHINGTON 98111-1247		
ATTORNEY DOCKET NUMBER:	61240.8003 US01	
NAME OF SUBMITTER:	Stephen C. Bishop	
Signature:	/SCB/	
Date: 10/29/2008		
Total Attachments: 13 source=2008_10_20NoticeofRecInventorstoWaltical#page1.tif source=2008_10_20NoticeofRecInventorstoWaltical#page2.tif source=2008_10_20NoticeofRecInventorstoWaltical#page3.tif source=2008_10_20NoticeofRecInventorstoWaltical#page4.tif source=2008_10_20NoticeofRecInventorstoWaltical#page5.tif source=2008_10_20NoticeofRecInventorstoWaltical#page6.tif source=2008_10_20NoticeofRecInventorstoWaltical#page7.tif source=ExecutedAssignmentFromInventors#page1.tif source=ExecutedAssignmentFromInventors#page2.tif source=ExecutedAssignmentFromInventors#page3.tif source=ExecutedAssignmentFromInventors#page4.tif source=ExecutedAssignmentFromInventors#page5.tif source=ExecutedAssignmentFromInventors#page5.tif source=ExecutedAssignmentFromInventors#page5.tif		
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EXHIBIT C1

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RECORDATION FOR				
PATENTS ONLY				
To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.				
Name of conveying party(ies):	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:			
A. Patent Application No.(s)	his document is being filed together with a new application. 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				
Additional numbers attached?	Yes X No			
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and 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			
	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 Email Address:	b. Deposit Account Number Authorized User Name			
9. Signature:				
[S. Olymans:	Docombor 15, 2005			
Signature	December 15, 2005 Date			
Christopher J. Daley-Watson - 34,807 Name of Person Signing	Total number of pages including cover sheet, attachments, and documents: 5			
I hereby certify that this correspondence is being deposited with the tin an envelope addressed to: MS Assignment Recordation Services, Alexandria, VA 22313-1450t on the date shown below.				
Dated: 12/16/07 Signature:	two flow (Peter Sher)			

ASSIGNMENT

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

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

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

429388001US

SCHEDULE A

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

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

Waltical Solutions, Inc.
By: Hollid
Name: XIAODONG LI
Title: PRESIDENT
Date: December 14, 2005
United States of America) State of Wachington) ss.: County of Fine)
On this 144 day of <u>Datember</u> , <u>2005</u> , before me personally came <u>Yrandono</u> , to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution
of the same. If which is the property of the same in
OF WASHING

EXHIBIT C2



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

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8010W0 8005 NS3
8003W0 8015 WS
8011WD 8001 WD
8006WV 8008W0
8012W0
8002 ND

MARCH 25, 2006

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

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PERKINS COIE LLP

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RECORDATION DATE: 12/15/2005

REEL/FRAME: 017363/0370

NUMBER OF PAGES: 5

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

DOCKET NUMBER: 429388000US

ASSIGNOR:

WALTICAL SOLUTIONS, INC.

DOC DATE: 12/14/2005

ASSIGNEE:

NEOCIFIC, INC.

13312 SE 43RD STREET

BELLEVUE, WASHINGTON 98006

SERIAL NUMBER: 10456654

FILING DATE: 06/05/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: ADAPTIVE COMMUNICATIONS SYSTEM AND METHOD

SERIAL NUMBER: 60688937

FILING DATE: 06/09/2005

PATENT NUMBER: ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR A POWER EFFICIENT BROADCASTING AND

COMMUNICATION SYSTEM

017363/0370 PAGE 2

SERIAL NUMBER: 10360007 FILING DATE: 02/07/2003

PATENT NUMBER: ISSUE DATE:

TITLE: PROTECTING INFORMATION TRANSMISSIONS VIA ENCRYPTION, SUCH AS WITH

KEY HOPPING TECHNIQUES IN AN 802.11 WIRELESS NETWORK

SERIAL NUMBER: 60665184 FILING DATE: 03/25/2005

PATENT NUMBER: ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION

SYSTEM

SERIAL NUMBER: 60704141 FILING DATE: 07/29/2005

PATENT NUMBER: ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS USING NON-

UNIFORM SYMBOL STRUCTURES

SERIAL NUMBER: 60665205 FILING DATE: 03/25/2005

PATENT NUMBER: ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA

NETWORK

SERIAL NUMBER: 60721451 FILING DATE: 09/28/2005

PATENT NUMBER: ISSUE DATE:

TITLE: METHOD AND APPARATUS FOR MULTI-CARRIER PACKET COMMUNICATION WITH

REDUCED OVERHEAD

SERIAL NUMBER: FILING DATE: 01/20/2005

PATENT NUMBER: ISSUE DATE:

PCT NUMBER: US0501939

TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER, MULTI-CELL WIRELESS

COMMUNICATION NETWORKS

SERIAL NUMBER: FILING DATE: 03/09/2005

PATENT NUMBER: ISSUE DATE:

PCT NUMBER: US0508169

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

COMMUNICATION SYSTEMS

SERIAL NUMBER: FILING DATE: 06/29/2005

PATENT NUMBER: ISSUE DATE:

PCT NUMBER: US0523399

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

SYSTEMS

SERIAL NUMBER: FILING DATE: 02/14/2005

PATENT NUMBER: ISSUE DATE:

PCT NUMBER: US0504601

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

ADAPTIVE TRANSMISSION AND FEEDBACK

SERIAL NUMBER: FILING DATE: 04/29/2005

PATENT NUMBER: ISSUE DATE:

PCT NUMBER: US0514828

TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS WITH

VARIABLE CHANNEL BANDWIDTH

017363/0370 PAGE 3

SERIAL NUMBER:

FILING DATE: 02/07/2005

PATENT NUMBER:

ISSUE DATE:

PCT NUMBER: US0503889

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

AUTOMATIC REPEAT REQUEST (ARQ)

SERIAL NUMBER:

FILING DATE: 01/27/2005

PATENT NUMBER:

ISSUE DATE:

PCT NUMBER: US0503518

TITLE: METHODS AND APPARATUS FOR OVERLAYING MULTI-CARRIER AND DIRECT

SEQUENCE SPREAD SPECTRUM SIGNAL IN A BROADBAND WIRELESS

COMMUNICATION SYSTEM

SERIAL NUMBER:

FILING DATE: 04/29/2005

PATENT NUMBER:

ISSUE DATE:

PCT NUMBER: US0514835

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

SHAREILL COLES, EXAMINER ASSIGNMENT SERVICES BRANCH PUBLIC RECORDS DIVISION

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

12-21-2005



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

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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) below.				
Name of conveying party(les):	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	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					
US05/08169 US05/14828 US05/14835					
US05/23399 60/665,184 60/665,205 60/704,141 60/721,451					
60/688,937					
Additional numbers attached?	Yes X No				
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and 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				
	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:					
- 6110	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 t	IS Postal Service as Evoress Mail Airbill No. FV758928983119				
in an envelope addressed to: MS Assignment Recordation Services,	Director of the US Patent and Trademark Office, P.O. Box 1450,				
Alexandria, VA 22313-1450; on the date shown below.	to the				
Dated: 12/18/07 Signature: 14	(Peter Sher)				
AAAAAAA POTUUTAS (A1030					

01 FC:8021

12/20/2005 ECOOPER 00000048 PCT/US05/01939

EXHIBIT C3

04/08/2005

ASSIGNMENT BY INVENTORS

This Assignment is by Xiaodong Li; Titus Lo; Haiming Huang; and Kemin Li (the "Assignors"), residing at 9919 129th PL NE, Kirkland, Washington 98033; 10501 181st Ave. NE, Redmond, Washington 98052; 605 141st CT SE #D203, Bellevue, Washington 98007; and 4228 144th LN SE, Bellevue, 98006, respectively. The Assignors have invented one or more certain inventions (the "Invention(s)") described in a Patent application for Letters Patent of the United States entitled METHODS AND APPARATUS FOR OVERLAYING MULTI-CARRIER AND DIRECT-SEQUENCE SPREAD SPECTRUM SIGNALS IN A BROADBAND WIRELESS COMMUNICATION SYSTEM (the "Application"), executed concurrently herewith and naming the Assignors as inventors. The Assignors authorize the Assignee, identified below, or its representatives to insert the application number of the Application 4503/03818 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

429388006US

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

Xiaodong Li

United States of America)
State of Complex (see) ss.:

County of

Date:

On this day of how to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

	Titus Lo
Date: , Jar. 8, 2005	
United States of America)	
State of Washington) ss.:	
County of Kirch	
of the same of the	9000
On this day of	, <u>ఏల ్</u> ర్, before me
personally came Titus Lo	, to me known to be the individual
described in and who executed the foregoing ins	strument, and acknowledged execution
of the same.	
AND COMMENTS OF	1 - 500
NOTARY	otary Public
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PUBLIC S. S.	
MBER 3	
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	Kellill Li
Date: Apr. 8, 2005	* .
United States of America)
State of Washington	ນາ) ss.:
County of Kiri	
	n Li , to me known to be the individual oregoing instrument, and acknowledged execution
of the same.	Marin Jeon Jan &
NOTA,	Notary Public
ASHIN STATE	NG har

	Turny, Haine
	Haiming Huang
Date: /px(3 . ?==1	•
United States of America ,)	
State of Washington) ss	3.:
County of king)	
On this S day of April personally came Haiming Huang	, before me , to me known to be the individual
described in and who executed the foregoing	
of the same.	
comme comment	Har Flung 4
* 10149,	Notary Public
ST. O. OUBLIC *	
MACHING THE	
AN JEHING SEE	

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

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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: 023489/0816

NUMBER OF PAGES: 8

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

ASSIGNOR:

LI, XIAODONG

DOC DATE: 04/08/2005

ASSIGNOR:

LO, TITUS

DOC DATE: 04/08/2005

ASSIGNOR:

HUANG, HAIMING

DOC DATE: 04/08/2005

ASSIGNOR:

LI, KEMIN

DOC DATE: 04/08/2005

ASSIGNEE:

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

BELLEVUE, WASHINGTON 98004

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

PATENT

11/9/2009 9:54:50 PM PAGE 3/005 Fax Server **USPTO**

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

023489/0816 PAGE 2

SERIAL NUMBER: 10583229

FILING DATE: 08/27/2008

PATENT NUMBER:

ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR OVERLAYING MULTI-CARRIER AND DIRECT

SEQUENCE SPREAD SPECTRUM SIGNALS IN A BROADBAND WIRELESS

COMMUNICATION SYSTEM

ASSIGNMENT SERVICES BRANCH PUBLIC RECORDS DIVISION

11/9/2009 9:54:50 PM

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4/005

Fax Server

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

	DATESIT ACCU	CALLERANT		1
	PATENT ASSI	JNMEN I		
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Electronic Version v1.1 Stylesheet Version v1.1 11/09/2009 501009990

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

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

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	10583229

CORRESPONDENCE DATA

Fax Number:

(206)359-9219

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

Email:

solson@perkinscole.com

Correspondent Name:

Stephanie Olson

Address Line 2:

PO Box 1247 SEA-PAT

Address Line 4:

Seattle, WASHINGTON 98111-1247

ATTORNEY DOCKET NUMBER: 61240.8006 US01

NAME OF SUBMITTER: Stephen C. Bishop

USPTO 11/9/2009 9:54:50 PM PAGE 5/005 Fax Server

TO: STEPHANIE OLSON COMPANY: PO BOX 1247

Total Attachments: 6
source=61240.8008 US01 Exec Assignment Inventors to Waltical#page1.tif
source=61240.8008 US01 Exec Assignment Inventors to Waltical#page2.tif
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source=61240.8008 US01 Exec Assignment Inventors to Waltical#page4.tif

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PATENT

EXHIBIT D1

Form PTO-1595 (Rev. 07/05) DMB No. 0651-0027 (exp. 6/30/2008)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office		
RECORDATION FOR			
PATENTS	ONLY		
To the Director of the U.S. Patent and Trademark Office: Please	record the attached documents or the new address(es) below.		
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 US05/23399 60/665,184 60/665,205 60/688,937 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 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 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:	/ Caroneou Good France		
9. Signature:	December 15, 2005		
Signature Date			
Christopher J. Daley-Watson - 34,807 Name of Person Signing	Total number of pages including cover sheet, attachments, and documents: 5		
I hereby certify that this correspondence is being deposited with the in an envelope addressed to: MS Assignment Recordation Services Alexandria, VA 22313-1450t on the date shown below.			
Dated: 12/16/05 Signature: /u	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 43rd Street, Bellevue, Washington 98006 (hereinafter referred to as "Assignee"), desires to acquire the right, title and interest in, to and under said Patent Applications and the inventions covered thereby;

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

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429388001US

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

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

Valtical Solutions, Inc.
By: Heflid
Name: XIADDONG LI
Title: PRESIDENT
Donoulogo vil Arre
Date: December 14, 2005
United States of America State of <u>Wachlington</u>) ss.: County of <u>Ying</u>)
On this
of the same. Notary Public Notary Public
My CommBox. Devember 10, DOR

EXHIBIT D2



UNITED STATES PATENT AND TRADEMARK OFFICE

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

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8000000 8005 NSS
800300 8015 WS
8001000 8001 WO
800600 8002000
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MARCH 25, 2006

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

PATENT DOCKETING

APR 0 7 2006

PERKINS COIE LLP

DOCKETED

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

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

RECORDATION DATE: 12/15/2005

REEL/FRAME: 017363/0370

NUMBER OF PAGES: 5

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

DOCKET NUMBER: 429388000US

ASSIGNOR:

WALTICAL SOLUTIONS, INC.

DOC DATE: 12/14/2005

ASSIGNEE:

NEOCIFIC, INC.

13312 SE 43RD STREET

BELLEVUE, WASHINGTON 98006

SERIAL NUMBER: 10456654

FILING DATE: 06/05/2003

ISSUE DATE:

TITLE: ADAPTIVE COMMUNICATIONS SYSTEM AND METHOD

SERIAL NUMBER: 60688937

FILING DATE: 06/09/2005

ISSUE DATE:

PATENT NUMBER:

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

PATENT

017363/0370 PAGE 2

SERIAL NUMBER: 10360007

FILING DATE: 02/07/2003

ISSUE DATE:

PATENT NUMBER:

TITLE: PROTECTING INFORMATION TRANSMISSIONS VIA ENCRYPTION, SUCH AS WITH

KEY HOPPING TECHNIQUES IN AN 802.11 WIRELESS NETWORK

SERIAL NUMBER: 60665184

FILING DATE: 03/25/2005

PATENT NUMBER:

ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION

SYSTEM

SERIAL NUMBER: 60704141

FILING DATE: 07/29/2005

PATENT NUMBER:

ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS USING NON-

UNIFORM SYMBOL STRUCTURES

SERIAL NUMBER: 60665205

FILING DATE: 03/25/2005

PATENT NUMBER:

ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA

NETWORK

SERIAL NUMBER: 60721451

FILING DATE: 09/28/2005

PATENT NUMBER:

ISSUE DATE:

TITLE: METHOD AND APPARATUS FOR MULTI-CARRIER PACKET COMMUNICATION WITH

REDUCED OVERHEAD

SERIAL NUMBER:

FILING DATE: 01/20/2005

PATENT NUMBER:

ISSUE DATE:

ISSUE DATE:

PCT NUMBER: US0501939

TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER, MULTI-CELL WIRELESS

COMMUNICATION NETWORKS

SERIAL NUMBER:

FILING DATE: 03/09/2005

PATENT NUMBER:

PCT NUMBER: US0508169

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

COMMUNICATION SYSTEMS

SERIAL NUMBER:

FILING DATE: 06/29/2005

ISSUE DATE:

PATENT NUMBER: PCT NUMBER: US0523399

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

SYSTEMS

SERIAL NUMBER:

FILING DATE: 02/14/2005

PATENT NUMBER:

ISSUE DATE:

PCT NUMBER: US0504601

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

ADAPTIVE TRANSMISSION AND FEEDBACK

SERIAL NUMBER:

FILING DATE: 04/29/2005

PATENT NUMBER:

ISSUE DATE:

PCT NUMBER: US0514828

TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS WITH

VARIABLE CHANNEL BANDWIDTH

017363/0370 PAGE 3

SERIAL NUMBER:

FILING DATE: 02/07/2005

PATENT NUMBER:

ISSUE DATE:

PCT NUMBER: US0503889

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

AUTOMATIC REPEAT REQUEST (ARQ)

SERIAL NUMBER:

FILING DATE: 01/27/2005

PATENT NUMBER:

ISSUE DATE:

PCT NUMBER: US0503518

TITLE: METHODS AND APPARATUS FOR OVERLAYING MULTI-CARRIER AND DIRECT

SEQUENCE SPREAD SPECTRUM SIGNAL IN A BROADBAND WIRELESS

COMMUNICATION SYSTEM

SERIAL NUMBER:

FILING DATE: 04/29/2005

PATENT NUMBER:

ISSUE DATE:

PCT NUMBER: US0514835

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

SHAREILL COLES, EXAMINER ASSIGNMENT SERVICES BRANCH PUBLIC RECORDS DIVISION

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

x Assignment

Other

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

Additional name(s) of conveying party(ies) attached?

Execution Date(s): December 14, 2005

Government Interest Assignment

4. Application or patent number(s):

US05/01939

10/456,654

US05/08169

US05/23399

60/688,937

Street Address: P.O. Box 1247

5. Name and address to whom correspondence

concerning document should be mailed:

Internal Address: Atty. Dkt.: 429388000US

A. Patent Application No.(s)

Security Agreement

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

Merger

Executive Order 9424, Confirmatory License

12-21-2005



Change of Name

Joint Research Agreement

US05/04601

10/360,007

US05/14828

60/665,184

60/704,141

Christopher J. Daley-Watson

PERKINS COIE LLP

(206) 359-8000

Signature

(206) 359-9000

Name of Person Signing

Alexandria, VA 22313-1450; on the date shown below

60/721,451

Zip: 98111-1247

₹ SHEET

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

103141387

Y To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) before 2. Name and address of receiving party(ies) Neocific, Inc. Internal Address: Street Address: 13312 SE 43rd Street Bellevue Washington 98006 Country: United States of America Zip: Additional name(s) & address(es) X No attached: This document is being filed together with a new application. B. Patent No.(s) US05/03889 US05/03518 US05/14835 60/665,205 Additional numbers attached? Yes 6. Total number of applications and 15 patents involved: 600.00 7. Total fee (37 CFR 1.21(h) & 3.41) S_ Authorized to be charged by credit card Authorized to be charged to deposit account X Enclosed None required (government interest not affecting title) 8. Payment Information a. Credit Card Last 4 Numbers **Expiration Date** b. Deposit Account Number **Authorized User Name** December 15, 2005 Date Total number of pages including cover Christopher J. Daley-Watson - 34,807 5 sheet, attachments, and documents: I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV758928963US, in an envelope addressed to: MS Assignment Recordation Services, Director of the US Patent and Trademark Office, P.O. Box 1450,

12/20/2005 ECOOPER 00000048 PCT/US05/01939 600.00 BP 01 FC:8021

City:

State:__

Phone Number:

Fax Number:

Email Address: 9. Signature:

EXHIBIT D3

ASSIGNMENT BY INVENTORS

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

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.

2

429388008US

Xiaodong Li

Date: <u>4/8</u>	105	•	
United States of Ame	erica ,)		
State of Ü	Washis-ptom):	SS.:	
County of	kira-r.		
On this Spersonally came described in and who	day of <i>إِمَّا إِمَادِهِ كُو</i> Xiaodong Li o executed the foregoin	ر مروز to me known to me known to me instrument, and ackno	_, before me o be the individual wledged execution
of the same.	37-1432214	Dimen	n f
	3	Notary Public	

	Commence of the commence of th
	Titus Lo
Date:	•
United States of America State of Washington ss County of King	s. :
On this 8 day of April Personally came Titus Lo described in and who executed the foregoing of the same.	, to me known to be the individual instrument, and acknowledged execution
OT TO UBLIC OF WASHINGTON	Notary Public

United States of America
State of
County of

On this day of Kemin Li to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

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Ha	iming Huang
Date: /pr.l \$, 2045	
United States of America) State of Washington) ss.:	
County of King)	
	before me nown to be the individual acknowledged execution
of the same.	Tan 5 \$
Notary Public	
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EXHIBIT D4

TO:STEPHANIE OLSON COMPANY:PO BOX 1247



United States Patent and Trademark Office

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



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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 INTEREST (SEE DOCUMENT FOR DETAILS). DOCKET NUMBER: 61240.8008 US01

ASSIGNOR:

LI, XIAODONG

DOC DATE: 04/08/2005

ASSIGNOR:

LO, TITUS

DOC DATE: 04/08/2005

ASSIGNOR:

HUANG, HAIMING

DOC DATE: 04/08/2005

ASSIGNOR:

LI, KEMIN

DOC DATE: 04/08/2005

ASSIGNEE:

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

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

PATENT

USPTO 11/10/2009 8:37:24 AM PAGE 3/005 Fax Server

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

023491/0649 PAGE 2

SERIAL NUMBER: 10583158 FILING DATE: 08/27/2008

PATENT NUMBER: ISSUE DATE:

TITLE: METHODS AND AFFARATUS FOR RANDOM ACCESS IN MULTI-CARRIER

COMMUNICATION SYSTEMS

ASSIGNMENT SERVICES BRANCH PUBLIC RECORDS DIVISION

USPTO

11/10/2009 8:37:24 AM PAGE 4/005

Fax Server

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

PATENT ASSIGNMENT					
lectronic Version v tylesheet Version			11/09/2009 501010435		
SUBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT			
CONVEYING PART	Y DATA				
		N	lame	Execution Date	
Xiacdong Li		•		04/08/2005	
Titus Lo				04/08/2005	
Haiming Huang				04/08/2005	
Kemin Li				04/08/2005	
(10,10,10,10)					<u> </u>
RECEIVING PARTY	DATA				
Name:	Waitical Solu	Waitical Solution, Inc.			
Street Address:	1750 112th A	1750 112th Ave. NE			
Internal Address:	Suite D159	Suite D159			
City:	Bellevue	Bellavue			
State/Country:	WASHINGTO	GTON			
Postal Code:	98004				
PROPERTY NUMBE	ERS Total: 1				
Property	Туре		Number		
Application Number	r.	10583	158		
CORRESPONDENC	E DATA				
Fax Number:	(206)35				
•			then the fax attempt is unsuccessful.		
Email: Correspondent Nam	, ,		nscoie.com on		
Address Line 1:	PO Box				
Address Line 2: SEA-PAT					
Address Line 4:	Seattle,	WASH	IINGTON 98111-1247		
ATTORNEY DOCKE	T NUMBER:		61240.8008 US01		
NAME OF SUBMITTER: Stephen C. Bishop					
			II		

PATENT

USPTO 11/10/2009 8:37:24 AM PAGE 5/005 Fax Server

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

Total Attachments: 6

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

EXHIBIT E1

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					
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					
US05/23399 60/665,184 60/665,205					
60/688,937					
Additional numbers attached?	Yes X No				
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and 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				
	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 Expiration Date				
Phone Number: (206) 359-8000 Fax Number: (206) 359-9000	b. Deposit Account Number				
Email Address:	Authorized User Name				
9. Signature:					
17/11/14	December 15, 2005				
Signature	December 13, 2003				
Christopher J. Daley-Watson - 34,807 Name of Person Signing	Total number of pages including cover sheet, attachments, and documents:				
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.					
Dated: 12/16/07 Signature: 12	Tue (Peter Sher)				

ASSIGNMENT

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

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

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

1

429388001US

SCHEDULE A

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

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

Waltical Solutions, Inc.					
By: Mytu	<u></u>				
Name: XIAODON	G LI				
Title: PRESIDE	ENT	•			
Date: December	2 14, 2005				
United States of Americans State of County of	ica Naghinoton King) _) ss.: _)			
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EXHIBIT E2



UNITED STATES PATENT AND TRADEMARK OFFICE

Under Secretary of Commerce for Intellectual Property and DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

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MARCH 25, 2006

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CHRISTOPHER J. DALEY-WATSON PERKINS COIE LLP

P.O. BOX 1247

SEATTLE, WA 98111-1247

PATENT DOCKETING

APR 0 7 2006

PERKINS COIE LLP

DOCKETED

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

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

RECORDATION DATE: 12/15/2005

REEL/FRAME: 017363/0370

NUMBER OF PAGES: 5

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

DOCKET NUMBER: 429388000US

ASSIGNOR:

WALTICAL SOLUTIONS, INC.

DOC DATE: 12/14/2005

ASSIGNEE:

NEOCIFIC, INC.

13312 SE 43RD STREET

BELLEVUE, WASHINGTON 98006

SERIAL NUMBER: 10456654

FILING DATE: 06/05/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: ADAPTIVE COMMUNICATIONS SYSTEM AND METHOD

SERIAL NUMBER: 60688937

FILING DATE: 06/09/2005

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

PATENT

017363/0370 PAGE 2

SERIAL NUMBER: 10360007 FILING DATE: 02/07/2003

PATENT NUMBER: ISSUE DATE:

TITLE: PROTECTING INFORMATION TRANSMISSIONS VIA ENCRYPTION, SUCH AS WITH

KEY HOPPING TECHNIQUES IN AN 802.11 WIRELESS NETWORK

SERIAL NUMBER: 60665184 FILING DATE: 03/25/2005

PATENT NUMBER: ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION

SYSTEM

SERIAL NUMBER: 60704141 FILING DATE: 07/29/2005

PATENT NUMBER: ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS USING NON-

UNIFORM SYMBOL STRUCTURES

SERIAL NUMBER: 60665205 FILING DATE: 03/25/2005

PATENT NUMBER: ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA

NETWORK

SERIAL NUMBER: 60721451 FILING DATE: 09/28/2005

PATENT NUMBER: ISSUE DATE:

TITLE: METHOD AND APPARATUS FOR MULTI-CARRIER PACKET COMMUNICATION WITH

REDUCED OVERHEAD

SERIAL NUMBER: FILING DATE: 01/20/2005

PATENT NUMBER: ISSUE DATE:

PCT NUMBER: US0501939

TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER, MULTI-CELL WIRELESS

COMMUNICATION NETWORKS

SERIAL NUMBER: FILING DATE: 03/09/2005

PATENT NUMBER: ISSUE DATE:

PCT NUMBER: US0508169

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

COMMUNICATION SYSTEMS

SERIAL NUMBER: FILING DATE: 06/29/2005

PATENT NUMBER: ISSUE DATE:

PCT NUMBER: US0523399

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

SYSTEMS

SERIAL NUMBER: FILING DATE: 02/14/2005

PATENT NUMBER: ISSUE DATE:

PCT NUMBER: US0504601

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

ADAPTIVE TRANSMISSION AND FEEDBACK

SERIAL NUMBER: FILING DATE: 04/29/2005

PATENT NUMBER: ISSUE DATE:

PCT NUMBER: US0514828

TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS WITH

VARIABLE CHANNEL BANDWIDTH

017363/0370 PAGE 3

SERIAL NUMBER:

FILING DATE: 02/07/2005

PATENT NUMBER:

ISSUE DATE:

PCT NUMBER: US0503889

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

AUTOMATIC REPEAT REQUEST (ARQ)

SERIAL NUMBER:

FILING DATE: 01/27/2005

PATENT NUMBER:

ISSUE DATE:

PCT NUMBER: US0503518

TITLE: METHODS AND APPARATUS FOR OVERLAYING MULTI-CARRIER AND DIRECT

SEQUENCE SPREAD SPECTRUM SIGNAL IN A BROADBAND WIRELESS

COMMUNICATION SYSTEM

SERIAL NUMBER:

FILING DATE: 04/29/2005

PATENT NUMBER:

ISSUE DATE:

PCT NUMBER: US0514835

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

SHAREILL COLES, EXAMINER
ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

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

12-21-2005



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

₹ SHEET

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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) bejow.
Name of conveying party(les):	2. Name and address of receiving party(ies)
Waltical Solutions, Inc.	Name: Neocific, Inc.
	Traine.
Additional name(s) of conveying party(les) attached? Yes X No	2. Name and address of receiving party(ies) Name: Neocific, Inc. Internal Address: Street Address:
3. Nature of conveyance/Execution Date(s):	9
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
	his document is being filed together with a new application.
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	B. Patent No.(s)
A. Patent Application No.(s) US05/04601 US05/03889	b. Patent No.(s)
US05/01939 US05/04601 US05/03889 10/456,654 10/350,007 US05/03518	
US05/08169 US05/14828 US05/14835	
US05/23399 60/665,184 60/665,205 60/704,141 60/721,451	
60/688,937	
Additional numbers attached?	Yes X No
i. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and 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
, , , , , , , , , , , , , , , , , , , ,	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:	December 15, 2005
Signature	December 13, 2003
Christopher J. Daley-Watson - 34,807	Total number of pages including cover
Name of Person Signing	sheet, attachments, and documents:
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.	J.S. Postal Service as Express Mail, Airbill No. EV758928963US, Director of the US Patent and Trademark Office, P.O. Box 1450,
17/1/1/19	(Peter Sher)
Dated: /2/10/0) Signature: /40	Peter Sher

12/20/2005 EUDOPER 00000048 PCT/US05/01939

600.00 OP 01 FC:8021

EXHIBIT E3

ASSIGNMENT BY INVENTORS

This Assignment is by Xiaodong Li; Titus Lo; Haiming Huang; and Kemin Li (the "Assignors"), residing at 9919 129th PL NE, Kirkland, Washington 98033; 13312 SE 43rd ST, Bellevue, Washington 98006; 605 141st CT SE #D203, Bellevue, Washington 98007; and 4228 144th LN SE, Bellevue, 98006, respectively. The Assignors have invented one or more certain inventions (the "Invention(s)") described in a Patent application for Letters Patent of the United States entitled METHODS AND APPARATUS FOR COMMUNICATION SYSTEMS WITH TIME-DIVISION DUPLEXING (the "Application"), executed concurrently herewith and naming the Assignors as inventors. The Assignors authorize the Assignee, identified below, or its representatives to insert the application number of the Application (1505/12831) 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 interest in and to the Invention(s) and the Invention(s) in the United States or (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

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.

United States of America
State of
County of

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

Notary Public

Notary Public

		•	Titus Lo	
United States of Ame State of County of	day of OCTO Titus Lo no executed the forego) ss.:) july , july , to moing instrument,	ne known to be and acknowled	ofore me the individual ged execution

1011111 -	
Date: 10/06/2005	
United States of America State of County of On this day of day of Kemin Li to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.	
Notary Public	

			iming Huang
		. na	minig
United States of Ame State of County of On this	erica WA s King Octobs	s.: to me g instrument, an Notary Public	before me known to be the individual dacknowledged execution

EXHIBIT E4

9/4/2009 1:49:00 PM PAGE 2/005 Fax Server

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



500951263A

SEPTEMBER 03, 2009

PTAS

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

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

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

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

RECORDATION DATE: 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: 10/06/2005

ASSIGNOR:

LO, TITUS

DOC DATE: 10/06/2005

ASSIGNOR:

LI, KEMIN

DOC DATE: 10/06/2005

ASSIGNOR:

HUANG, HAIMING

DOC DATE: 10/06/2005

ASSIGNEE:

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

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

USPTO 9/4/2009 1:49:00 PM PAGE 3/005 Fax Server

TO: STEPHANIE OLSON COMPANY: PO BOX 1247

023175/0461 PAGE 2

SERIAL NUMBER: 11568385 FILING DATE: 08/16/2007

PATENT NUMBER: ISSUE DATE:

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

ASSIGNMENT SERVICES BRANCH PUBLIC RECORDS DIVISION

9/4/2009 1:49:00 PM

PAGE

4/005 Fax Server

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

09/01/2009 500951263

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

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

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11568385

CORRESPONDENCE DATA

Fax Number:

(206)359-9219

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

Email:

solson@perkinscole.com

Correspondent Name:

Stephanie Olson

Address Line 1: Address Line 2: PO Box 1247 SEA-PAT

Address Line 4:

Seattle, WASHINGTON 98111-1247

ATTORNEY DOCKET NUMBER:	61240.8011 US01
NAME OF SUBMITTER:	Stephen C. Bishop

USPTO 9/4/2009 1:49:00 PM PAGE 5/005 Fax Server

TO: STEPHANIE OLSON COMPANY: PO BOX 1247

Total Attachments: 6
source=612408011_Assignment_Inventors_Waltical#page1.tif
source=612408011_Assignment_Inventors_Waltical#page2.tif
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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	
PATENTS	ONLY
To the Director of the U.S. Patent and Trademark Office: Please r	ecord the attached documents or the new address(es) below.
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	
60/688,937 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 patents involved:
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	
1.0.33.12.11	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 Oser Harrie
9. Signature:	
Signature	
Christopher J. Daley-Watson - 34,807	Total control of contr
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.	
	Tue (Peter Sher)

ASSIGNMENT

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

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

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

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SCHEDULE A

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

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

Waltical Solutions, Inc.
By: Wifted
Name: XIADDONG LI
Title: PRESIDENT
Date: December 14, 2005
United States of America) State of Washington) ss.: County of Ying)
On this 444 day of 2005, before me personally came 41404000 h, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution
of the same. Notary Public Notary Public
MOTAR, MER 10.2000

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

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MARCH 25, 2006

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

PATENT DOCKETING

APR 0 7 2006

PERKINS COIE LLP

DOCKETED

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

RECORDATION DATE: 12/15/2005

REEL/FRAME: 017363/0370

NUMBER OF PAGES: 5

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

DOCKET NUMBER: 429388000US

ASSIGNOR:

WALTICAL SOLUTIONS, INC.

DOC DATE: 12/14/2005

ASSIGNEE:

NEOCIFIC, INC.

13312 SE 43RD STREET

BELLEVUE, WASHINGTON 98006

SERIAL NUMBER: 10456654

FILING DATE: 06/05/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: ADAPTIVE COMMUNICATIONS SYSTEM AND METHOD

SERIAL NUMBER: 60688937

FILING DATE: 06/09/2005

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

PATENT

017363/0370 PAGE 2

SERIAL NUMBER: 10360007 FILING DATE: 02/07/2003

PATENT NUMBER: ISSUE DATE:

TITLE: PROTECTING INFORMATION TRANSMISSIONS VIA ENCRYPTION, SUCH AS WITH

KEY HOPPING TECHNIQUES IN AN 802.11 WIRELESS NETWORK

SERIAL NUMBER: 60665184 FILING DATE: 03/25/2005

PATENT NUMBER: ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION

SYSTEM

SERIAL NUMBER: 60704141 FILING DATE: 07/29/2005

PATENT NUMBER: ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS USING NON-

UNIFORM SYMBOL STRUCTURES

SERIAL NUMBER: 60665205 FILING DATE: 03/25/2005

PATENT NUMBER: ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA

NETWORK

SERIAL NUMBER: 60721451 FILING DATE: 09/28/2005

PATENT NUMBER: ISSUE DATE:

TITLE: METHOD AND APPARATUS FOR MULTI-CARRIER PACKET COMMUNICATION WITH

REDUCED OVERHEAD

SERIAL NUMBER: FILING DATE: 01/20/2005

PATENT NUMBER: ISSUE DATE:

PCT NUMBER: US0501939

TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER, MULTI-CELL WIRELESS

COMMUNICATION NETWORKS

SERIAL NUMBER: FILING DATE: 03/09/2005

PATENT NUMBER: ISSUE DATE:

PCT NUMBER: US0508169

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

COMMUNICATION SYSTEMS

SERIAL NUMBER: FILING DATE: 06/29/2005

PATENT NUMBER: ISSUE DATE:

PCT NUMBER: US0523399

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

SYSTEMS

SERIAL NUMBER: FILING DATE: 02/14/2005

PATENT NUMBER: ISSUE DATE:

PCT NUMBER: US0504601

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

ADAPTIVE TRANSMISSION AND FEEDBACK

SERIAL NUMBER: FILING DATE: 04/29/2005

PATENT NUMBER: ISSUE DATE:

PCT NUMBER: US0514828

TITLE: METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS WITH

VARIABLE CHANNEL BANDWIDTH

017363/0370 PAGE 3

SERIAL NUMBER:

FILING DATE: 02/07/2005

PATENT NUMBER:

ISSUE DATE:

PCT NUMBER: US0503889

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

AUTOMATIC REPEAT REQUEST (ARQ)

SERIAL NUMBER:

FILING DATE: 01/27/2005

PATENT NUMBER:

ISSUE DATE:

PCT NUMBER: US0503518

TITLE: METHODS AND APPARATUS FOR OVERLAYING MULTI-CARRIER AND DIRECT

SEQUENCE SPREAD SPECTRUM SIGNAL IN A BROADBAND WIRELESS

COMMUNICATION SYSTEM

SERIAL NUMBER:

FILING DATE: 04/29/2005

PATENT NUMBER:

ISSUE DATE:

PCT NUMBER: US0514835

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

SHAREILL COLES, EXAMINER
ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

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

12-21-2005



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

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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) below.
Name of conveying party(les):	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	2. Name and address of receiving party(ies) Name: Neocific, Inc. Internal Address: Street Address:
3. Nature of conveyance/Execution Date(s):	
Execution Date(s): December 14, 2005	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 US05/14838	
US05/23399 60/685,184 60/665,205 60/688,937 60/704,141 60/721,451	
Additional numbers attached	Yes X No
 Name and address to whom correspondence concerning document should be mailed: 	6. Total number of applications and patents involved:
Name: Christopher J. Daley-Watson PERKINS COIE LLP	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	
0.000. 12-77	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:	Da combas 45, 2005
Signature	- December 15, 2005 Date
Christopher J. Daley-Watson - 34,807	Total number of pages including cover sheet, attachments, and documents:
Name of Person Signing	
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.	U.S. Postal Service as Express Mail, Airbill No. EV758928963US, , Director of the US Patent and Trademark Office, P.O. Box 1450,
12/16/107 , 5000000	(Peter Sher)
Dated: /2/10/0) Signature: /40	

12/20/2005 ECOO 600.00 0P 01 FC:8021

EXHIBIT F3

ASSIGNMENT BY INVENTORS

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

Washington having its principal place of business at Suite D159, 1750 112th Ave. NE, Bellevue. Washington 38:134 "Assignee"), desires to acquire the entire right, title and interest in and to the inventors and the Application, and in and to any patents (collectively, "Patents is that they 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

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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Date: 10/6/2m5	
United States of America State of County of On this	n —

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King)		
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who executed	Kemin Li I the foregoing instr		
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State of	. WA) ss.:		
County of	Zina			
On this	th day of Hair	October ning Huang	. 2005 _, to me known t	before me o be the individual
described in a	nd who executed	the foregoing instr	ument, and ackno	wledged execution
of the same.		H. AATTA		
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Date: (0/6)	105		•	
United States of Ame State of County of	erica WA- King)) ss.:)		
On this	Titu	of ober. Is Lo of foregoing instructions of H. A.	, to me known to ment, and acknow	be the individual
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			P Alauduli	ig Li
Date: 10/6	12005	·	•	
United States of Ar State of	W/ /)) ss.:		
County of	- King		2005	, before me
On this	Xiaodor	to ber,	, to me known t	o be the individual
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EXHIBIT F4

TO:STEPHANIE OLSON COMPANY:PO BOX 1247



UNITED STATES PATENT AND TRADEMARK OFFICE

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



NOVEMBER 09, 2009

PTAS

STEPHANIE OLSON

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

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RECORDATION DATE: 11/09/2009

REEL/FRAME: 023491/0061

NUMBER OF PAGES: 9

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

DOCKET NUMBER: 61240.8012 US01

ASSIGNOR:

LI, XIAODONG DOC DATE: 10/06/2005

ASSIGNOR:

LO, TITUS DOC DATE: 10/06/2005

ASSIGNOR:

HUANG, HAIMING DOC DATE: 10/06/2005

ASSIGNOR:

LI, KEMIN DOC DATE: 10/06/2005

ASSIGNOR:

MENG, JUN DOC DATE: 10/06/2005

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

PATENT

USPTO 11/10/2009 7:39:34 AM PAGE 3/005 Fax Server

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

023491/0061 PAGE 2

ASSIGNEE:

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

SERIAL NUMBER: 11569064

FILING DATE: 06/12/2007

PATENT NUMBER:

ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR POWER CONTROL IN MULTI-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

Name	Execution Date
Xisodong Li	10/06/2005
Titus Lo	10/06/2005
Haiming Huang	10/06/2005
Kemin Li	10/06/2005
Jun Meng	10/06/2005

RECEIVING PARTY DATA

Waltical Solution, Inc.
1750 112th Ave. NE
Suite D159
Bellevue
WASHINGTON
98004

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11569084

CORRESPONDENCE DATA

Fax Number:

(206)359-9219

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

Email:

solson@perkinscole.com

Correspondent Name:
Address Line 1:

Stephanie Olson PO Box 1247

Address Line 2:

SEA-PAT

Address Line 4:

Seattle, WASHINGTON 98111-1247

ATTORNEY DOCKET NUMBER: 61240.8012 US01

NAME OF SUBMITTER: Stephen C. Bishop

PATENT

USPTO 11/10/2009 7:39:34 AM PAGE 5/005 Fax Server

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

Total Attachments: 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 43rd Street, Bellevue, Washington 98006 (hereinafter referred to as "Assignee"), desires to acquire the right, title and interest in, to and under said Patent Applications and the inventions covered thereby;

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

429388001US

SCHEDULE A

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

60/665,205	Mar. 25, 2005	Haiming Huang, Xlaodong Li, Tilus Lo, Kemin Li	METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA NETWORKS	US
60/688,937	June 9, 2005	Haiming Huang, Xlaodong Li, Tilus 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, Tilus Lo, Ruifeng Wang	METHOD AND APPARATUS FOR MULTI-CARRIER PACKET COMMUNICATION WITH REDUCED OVERHEAD	US

altical Solutions, Inc.
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ame: XIAODONG LI
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ale: December 14, 2005
nited States of America)
tate of <u>Washington</u>) ss.: ounty of <u>Fins</u>
in this 144 day of December . 2005, before me
ersonally came <u>Viandovio</u> , to me known to be the individual escribed in and who executed the foregoing instrument, and acknowledged execution
f the same.
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Notary Public
MOTAR, IN COMM. ORD. DEPONDER 10, 2018
W. S. DUBLIC S. Z.
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EXHIBIT H2

11/10/2009 9:34:35 AM PAGE 1/004 Fax Server

TO:STEPHANIE OLSON COMPANY:PO BOX 1247



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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

ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION

SYSTEM

PATENT NUMBER:

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

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TO:STEPHANIE OLSON COMPANY:PO BOX 1247

PATENT ASSIGNMENT Electronic Version v1.1 11/09/2009 501010546 Stylesheet Version v1.1 SUBMISSION TYPE: **NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT CONVEYING PARTY DATA Execution Date** Name 12/14/2005 Waltical Solutions, Inc. **RECEIVING PARTY DATA** Neocific, Inc. Name: Street Address: 13312 SE 43rd Street Bellevue City: State/Country: WASHINGTON 98006 Postal Code: **PROPERTY NUMBERS Total: 1**

Number

CORRESPONDENCE DA	TA

Application Number:

Property Type

Fax Number.

(206)359-9219

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

11571468

Email:

solson@perkinscole.com

Correspondent Name:

Stephanie Olson

Address Line 1:

PO Box 1247

Address Line 2:

SEA-PAT

Address Line 4:

Seattle, WASHINGTON 98111-1247

ATTORNEY DOCKET NUMBER: 61240.8015 US02

NAME OF SUBMITTER: Stephen C. Bishop

Total Attachments: 4

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PATENT

11571468

EXHIBIT H3

ASSIGNMENT BY INVENTORS

٠,

This Assignment is by Xiaodong Li; Titus Lo; Haiming Huang; and Kemin Li (the "Assignors"), residing at 9919 129th PL NE, Kirkland, Washington 98033; 13312 SE 43rd ST, Bellevue, Washington 98006; 605 141st CT SE #D203, Bellevue, Washington 98007; and 4228 144th LN SE, Bellevue, 98006, respectively. The Assignors have invented one or more certain inventions (the "invention(s)") described in a Patent application for Letters Patent of the United States entitled METHODS AND APPARATUS FOR SYNCHRONIZED DISTRIBUTION IN PACKET DATA NETWORKS (the "Application"), executed concurrently herewith and naming the Assignors as inventors. The Assignors authorize the Assignee, identified below, or its representatives to insert the application number of the Application 60/65 205 when known.

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

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

SYNCH-IP

1

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.

SYNCH-IP

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United States of Am State of County of	1.174	3S.;		•
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Date:		
United States of America State of County of	A) ss.:	
On this day of day of described in and who executed of the same.		, before me known to be the individual acknowledged execution
WAS WAS WAS A WAS	Notary Public No	

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			Halming H	uang
Date:	1612005			
United States of A	America)		
State of	_, Witt) ss.:		
County of	Lina)		
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of the same.	The state of the s		
i	ST SUBLIC	Notary Public	
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EXHIBIT H4

TO:STEPHANIE OLSON COMPANY:PO BOX 1247



UNITED STATES PATENT AND TRADEMARK OFFICE

Under Secretary of Commerce for Intellectual Property and DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE



501010539A

NOVEMBER 09, 2009

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

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RECORDATION DATE: 11/09/2009

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

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

DOCKET NUMBER: 61240.8015 US02

ASSIGNOR:

LI, XIAODONG

DOC DATE: 10/06/2005

ASSIGNOR:

LO, TITUS

DOC DATE: 10/06/2005

ASSIGNOR:

HUANG, HAIMING

DOC DATE: 10/06/2005

ASSIGNOR:

LI, KEMIN

DOC DATE: 10/06/2005

ASSIGNEE:

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

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

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TO:STEPHANIE OLSON COMPANY:PO BOX 1247

023492/0172 PAGE 2

SERIAL NUMBER: 11571468 FILING DATE: 11/28/2007

PATENT NUMBER: ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION

System

ASSIGNMENT SERVICES BRANCH PUBLIC RECORDS DIVISION

PATENT

PAGE 4/005 Fax Server

TO:STEPHANIE OLSON COMPANY:PO BOX 1247

PATENT ASSIGNMENT

Electronic Version v1.1

11/09/2009 501010539

Stylesheet Version v1.1

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

CONVEYING PARTY DATA

Name	Execution Date
Xiacdong LI	10/06/2005
Titus Lo	10/06/2005
Haiming Huang	10/06/2005
Kemin Li	10/06/2005

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11571468

CORRESPONDENCE DATA

Fax Number:

(206)359-9219

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

solson@perkinscoie.com

Correspondent Name:

Stephanie Olson

Address Line 1: Address Line 2:

PO Box 1247 SEA-PAT

Address Line 4:

Seattle, WASHINGTON 98111-1247

61240.8015 US02 ATTORNEY DOCKET NUMBER: Stephen C. Bishop NAME OF SUBMITTER:

PATENT

USPTO

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Total Attachments: 12
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EXHIBIT I-1

ASSIGNMENT

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

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

429388001US

SCHEDULE A

Application Number (Patent Number)	Filing Date	Inventor	Title	Ctry
Number) US05/01939	Jan. 20, 2005	Xisodong 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, Halming Huang	METHODS AND APPARATUS FOR MULTI-CARRIER COMMUNICATIONS SYSTEMS WITH ADAPTIVE TRANSMISSION AND FEEDBACK	PCT
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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	Xlandong 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, Halming 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, Xlaodong Li, Titus Lo, Kemin Li	METHODS AND APPARATUS FOR CELLULAR BROADCASTING AND COMMUNICATION SYSTEM	US

60/665,205	Mar. 25, 2005	Haiming Huang, Xlaodong Li, Tilus 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, 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

/altical Solutions, Inc.
y. Tifted
ame: XIAODONG LI
ille: PRESIDENT
Date: December 14, 9006
Inited States of America State of Wachington ss.: County of Ving)
on this day of,
of the same. Full Washington
Notary Public My Comm. Bop. Devember 10, 201
OF WASHING

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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:

PATENT NUMBER:

NECCIFIC, INC.

13312 SE 43RD STREET

BELLEVUE, WASHINGTON 98006

SERIAL NUMBER: 11571469

FILING DATE: 10/09/2008

ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR POWER EFFICIENT BROADCASTING AND

COMMUNICATION SYSTEMS

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

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SUBMISSION TYPE:			NEW ASSIGNMENT			
NATURE OF CONVEYANCE:			ASSIGNMENT			
CONVEYING PART	Y DATA					
	<u> </u>	<u> </u>	lame	Execution Date		
Waltical Solutions,	inc.		-	12/14/2005		
RECEIVING PARTY	/ DATA					
Name:	Neocific, Inc.					
Street Address:	13312 SE 43		et			
City:	Bellevue					
State/Country:	WASHINGTO	ON				
Postal Code:	98006					
PROPERTY NUMBERS Total: 1						
Property Type			Number			
		11571				
CORRESPONDENCE DATA						
Fax Number:	(208)35	0_0210				
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Email: scison@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:		,	61240.8016 US01			
NAME OF SUBMITTER:			Stephen C. Bishop			
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REEL: 027107 FRAME: 0294

EXHIBIT I-3

ASSIGNMENT BY INVENTORS

This Assignment is by Xiaodong Li; Titus Lo; Haiming Huang; and Kemin Li (the "Assignors"), residing at 9919 129th PL NE, Kirkland, Washington 98033; 13312 SE 43rd ST, Bellevue, Washington 98006; 605 141st CT SE #D203, Bellevue, Washington 98007; and 4228 144th LN SE, Bellevue, 98006, respectively. The Assignors have invented one or more certain inventions (the "Invention(s)") described in a Patent application for Letters Patent of the United States entitled METHODS AND APPARATUS FOR A POWER EFFICIENT BROADCASTING AND COMMUNICATION SYSTEM (the "Application"), executed concurrently herewith and naming the Assignors as inventors. The Assignors authorize the Assignee, identified below, or its representatives to insert the application number of the Application 60/600, 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

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

		Alababily Li	
Date: 10/6/200	<u> </u>		
United States of America)		
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County of	va)		
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Date: 10/6/05	•		
United States of America	,		
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Date:	10/6/2005		•		
United States	of America)			
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On this	day of	ning Huang the foregoing		ne known to l	before me be the individual edged execution
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	-	Kemin Li	
Date: 10/06/2005			
United States of America	,)		
State of Ly W) ss.:		
County of)		*
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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, KEMIN

DOC DATE: 10/06/2005

ASSIGNEE:

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

P.O. Box 1450, Alexandria, Virginia 22313-1459 - www.uspro.gov

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023492/0350 PAGE 2

SERIAL NUMBER: 11571469

FILING DATE: 10/09/2008

PATENT NUMBER: ISSUE DATE:

TITLE: METHODS AND APPARATUS FOR POWER EFFICIENT BROADCASTING AND

COMMUNICATION SYSTEMS

ASSIGNMENT SERVICES BRANCH PUBLIC RECORDS DIVISION

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		N	lame	Execution Date	
Xiaodong Li				10/06/2005	
Titus Lo	<u> </u>			10/06/2005	
Haiming Huang	-			10/06/2005	
Kemin Li				10/06/2005	
City: State/Country: Postal Code:	Bellevue WASHINGTON 98004				
PROPERTY NUMBE	RS Total: 1				•
Property 1	Гуре		Number		
Application Number	:	11571	469		
CORRESPONDENCE DATA					
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: Seattle, WASHINGTON 98111-1247					
ATTORNEY DOCKET NUMBER:			61240.8016 US01		
NAME OF SUBMITTER:			Stephen C. Bishop		

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WA Filing Date

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Expiration Date

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