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PATEN	Attorney Docket No.: 4341P092
To the Director of the United States Patent and Trademark Office	e. Please record the attached original documents or copy thereof.
1. Name of conveying party(ies): Xuezhe Zheng, Shifu Yuan, Roger Helkey, Marduke Yousepfor, Charles Matthew Corbalis, and Chandrasekhar Pusaria Additional name(s) of conveying party(ies) attached? No Yes	2. Name and address of receiving party(ies): Name: Calient Networks, Inc. Internal Address:
3. Nature of Conveyance ☐ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other: Corractive Assignment, Document ID No 700413674 Execution Date(s): 08.15.2007; 08.15.2007; 09.09.2007; 08.16.2007; and 09.04.2007	Street Address: 5853 Rue Ferrari City: San Jose State/Provence: California Zip: 95138 Country: USA Additional name(s) & address(es) attached? Yes No
4. Application number(s) or patent number(s): If this document is being filed together with a new application. A. Patent Application No.(s): 11/764,716 Additional numbers at the second se	B. Patent No.(s):
Name: Blakely, Sokoloff, Taylor & Zafman LLP Internal Address: Street Address: 129 Oakmead Parkway Sunnyvale, California 94085-4040	7. Total Fee (37 CFR 3.41)\$_40.00 Enclosed Authorized to be charged to deposit account 8. Deposit Account Number:
DÓ NÓT U	02-2666 (Attach duplicate copy of this page if paying by deposit account)
Statement and signature.	on is true and correct and any attached copy is a true copy of the
	August 11, 2009 gnature Date sheet, attachments, and documents: . [21]

Alexandria, Virginia 22313-1450

Based on Form PTO-1595 as modified by BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP on 05/09/03

PATENT

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Based on FORM PTO-1595 (Rev. 08/05) as modified by Blakety, Sokoloff, Taylor & Zafman (WII) 11/30/2005

U:S. DEPARTMENT OF COMMERCE Patent and Trademark Office

Recordation For PATENT			
To the Director of the U.S. Patent and Trademark Office: Please	(ACOUS STE Attached discourances by the real address (and halow		
Name of conveying party(les): Xuezhe Zheng; Shifu Yunu; Roger Helkey; Marduke Yousepfor; Charles Matthew Corbalis; Chandrasekhar Pusarla	Name and address of receiving party(les): Name: Callent Networks, Inc.		
Additional name(s) of conveying party(ics) attached?	Internal Address: Street Address: 5853 Rue Ferrari Avenue		
3. Nature of Conveyance: Assignment (5) Mergar Socurity Agreement Change of Name Other Execution Date: 8/15/2007: 9/9/2007: 8/16/2007:	City: Sam Jose State: CA Zip: 95138 Country: United States Additional nume(s)& address(es) attached? M No 1 Yes		
9/4/2007 4. Application number(s) or patent number(s):	nis document is being filed together with a new application.		
A. Parent Application No.(s)	B. Patent No.(s)		
11/764,716			
Additional numbers at	ached? Mr DYas		
 Name and address of party to whom correspondence concerning document should be mailed: 	6. Total number of applications and patents involved:		
Name: Blakely, Sokoloff, Taylor & Zafman LLP Internal Address: Street Address: 1279 Oakmead Parkway	7. Total Fee (37 CFR 3.41)\$ 40.00 ☐ Enclosed ☐ Authorized to be charged to deposit account 9 Deposit Account Number:		
City: Sunnyvale State: CA ZIF: 94085 Phone Number: (408) 720-8380 Fax Number: (408) 720-8383 E-mail Address: [ester_vincent@bstz.com	Q2-2666 (Attach duplicate copy of this page it paying by deposit account)		
DO NOT US	ETHIS SPACE		
9. Statement and signature. Yo the past of my knowledge and belief, the foregoing is true and	correct and any altached copy is a true copy of the original document		
Lester J. Vincent Reg. No. 31,460 Name of Person Signing	Signature September 11, 2007 Signature Date		
Total number of pages including cover she	oot, attachmente, and document: 15		

Arts to be recorded (including cover alrest) should be faxed to (571) 273-0140, or malied to:
Mail Stop Assignment Recordation Services
Director of the US Patent and Trademark Office
P O Box 1450
Alexandria, VA 22313-1450

Docket No. 4341P092

):BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP COMPANY:1279 OAKMEAD PARKWAY

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U.S. DEPARTMENT OF COMMERCE Petent and Tradement Office

4	inn Cover Sheet 'S ONLY
To the Director of the U.S. Patent and Trademark Officer Please	record the estached documents or the new address less below.
7. Austre of conveying party(les): Xueste Zheng, Shifu Venur, Singer Helisty, Marciste Yottepfer, Charles Matthew Corbelia, Chandrasekhar Pasaria	Name and address of receiving party(lee): Name: Califest Networks, Inc.
Additional name(s) of conveying party(set) attached? El No	Street Address: S853 Rms Pervari Avenue
1. Nature of Conveyance:	
Assignment (5) Margar Security Agreement Change of Name Other	City: San Jose States CA, Top. 95138 Country: United States
Execution Date: \$/15/2007: 9/9/2007: \$/16/2007:	Additional numerals addression) absorbed? Et No 12 Year
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A. Fotom Application (45,(8)	B. Patent No.(s)
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Additional acceptage at	buches? Mi No C) Yes
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Name: Blandy, Scholoff, Taylor & Zafman LLP	7. Total Fee (37 CFR 9.41)\$ 40.00
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Street Address: 1279 Oskment Farkway	
City: Susavvale State: CA ZIP: 94085	8. Deposit Account Number: 02-2566
Phone Number: (408) 720-6300 Fax Number: (408) 720-8383 E-mail Address: loster vincent@bets.com	(Attach duplicate copy of this page if paying by capcalt accound
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3. Statement and algorithms. To the best of my introduction and belief, the toregoing is true and	क्षेत्रकर्त बार्च मापु ब्रॉडक्टांकर्व capy is a true capy of देख वर्गक्रमा राज्यकार्
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Alexandria, VA 22313-7450

Docket No. 4341P092

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Allomey's Docket No.: 43419092

ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is bareby acknowledged, we, the undersigned:

Xuezhe Zheng; Shifu Yuan; Roger Helkey; Marduke Yousepfor; Charles Matthew Corbalis; Chandrasekhar Pusaria

hereby sell, assign, and transfer to

Calient Networks, Inc.

a Corporation of Doleware, having a principal place of business at 5853 Rue Ferrari Avenue, San Jose, 95138.
United States ("Astignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries. In and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which may have a declaration executed by the undersigned prior hereto or concurrently herewith and is entitled

Method and Apparatus to Provide Multi-Channel Bulk Fiber Optical Power Detection

said patent application also identified as follows (when known):

[I/we hereby authorize an automory or agent for said Assignce to insert below the application number and filing date of said patent application when known.]

United States Patent Application Number	11/764,716	िक्ते के विक्र	June 13, 2007
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and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continuation, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filled in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filling of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge so, but at the expense of, said Assignee, its soccessors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation, entential applications, substitute applications, renewal applications, reissue applications, reasoninations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attents, and other papers; communicate to said Assignee, its successors, assigns, and legal representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or legal representatives in securing and maintaining proper patent protection for said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives in securing and maintaining proper patent protection for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

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covernant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date Name: Shifu Yuan Date Name: Roger Helkey DRE Name: Marduke Yousepfor Date Name: Charles Matthew Corbalis Date Name: Chandrasekhar Pusarla Date **Малис**: Date Name: Date Name: Date Name;

Name:

Name:

Assignment Document Reams Address: Blakely, Sokoloff, Taylor & Zarman LLP 1279 Orkmend Parkway Sunnyvale, CA 94085-4040 Telephone: (408) 720-8300

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Date

Date

Page 2 of 2

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Anomey's Docket No.: 4341P092

ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned:

Xuezhe Zheng; Shifu Yuan; Roger Helkey; Marduke Yousepfor; Charles Matthew Corbalis; Chandrasekhar Pusarla

hereby sell, assign, and transfer to

Calient Networks, Inc.

a Corporation of Delaware, having a principal place of business at 5853 Rue Ferrari Avenue, San Jose, 95136 United States ("Assignee"), and its successors, assigns, and legal representatives, the emire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which may have a declaration executed by the undersigned prior hereto or concurrently herewith and is entitled

Method and Apparatus to Provide Multi-Channel Bulk Fiber Optical Power Detection

said patent application also identified as follows (when known):

[I/we hereby authorize an attorney or agent for said Assignce to insert below the application number and filing date of said patent application when known.]

United States Patent Application Number	11/764.716	filed	June 18, 2007

and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, untity applications, design applications, divisional applications, continuation applications, continuation in-part applications, substitute applications, renewal applications, release applications, recomminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, recommination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry our in good faith the intern and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continued prosecution applications, design applications, divisional applications, substitute applications, continued prosecution applications, receasing extensions, and all other patent applications and all said inventions or improvements; execute all rightful oaths, assignments, powers of atterney, and other papers; communicate to said Assignee, its successors, assigns, and legal representatives at facts known to the undersigned relating to said inventions or improvements and the maintaining proper patent protection for said inventions or improvements and of applications for said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignce, its successors, assigns, assigns, and legal representatives; and

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Page I of 2

):BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP COMPANY:1279 OAKMEAD PARKWAY

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coverant with said Assigned, its successors, assigns, and legal representatives that no assignment, grant, marrgage, license, or other agreement affecting the rights and property harein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Size and Date Being:

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Date	Name: Xuezhe Zheng
875-017	sul year
Date	Name: Suitu Yuan
8-15-07	Regulately
Date	Name! Roger Belkey
Date	Name: Marduke Yousepfor
Расе	Name: Charles Matthew Corbalis
Date	Name: Chandrasekhar Pusarla
Date	Name;
Data	Name:
Date	Name:

Assistantent Document Return Audress: Blakely, Sokoloff, Taylor & Zafman Ll.P 1279 Oskmend Parkway Sunnyvale, CA 94085-4040 Telophone: (408) 720-8300

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Page 2 of 2

); BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP COMPANY: 1279 OAKMEAD PARKWAY

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BLAKELY SOKOLOFF TAYLOR

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Attorney's Docket No.: 4341P092

ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned:

Xuezhe Zheng; Shifu Yuan; Roger Helkey; Marduke Yousepfor; Charles Matthew Corbalis; Chandrasekhur Pusaria

hereby sell, assign, and transfer to

Calient Networks, Inc.

s Corporation of Delaware, having a principal place of business at 5853 Rue Permit Avenus, San Jose, 95138 United States ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which may have a declaration executed by the undersigned prior become or concurrently become and is entitled

Method and Apparatus to Provide Multi-Channel Bulk Fiber Optical Power Detection

said pacent application also identified as follows (when known):

[I/we bereby authorize an attornsy or agent for said Assignce to insert below the application number and filing date of said patent application when known.]

United States Patent	Application Number	11/764,716	filed	June 18, 20	ют

and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, recuminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, recommendion certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, design applications, divisional applications, continued prosecution applications, design applications, divisional applications, continued prosecution applications, recommunition-in-part applications, substitute applications, renewal applications, release applications, recommunitions, and all other patent applications on any and all said inventions or improvements; execute all rightful daths, assignments, powers of attorney, and other papers; communicate to raid Assignee, its successors, assigns, and legal representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or legal representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting tide to said inventions or improvements, and all applications for patents and all patents on said inventions of improvements, in said Assignee, its successors, assigns, and legal representatives; and

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Page 1 of 2

):BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP COMPANY:1279 OAKMEAD PARKWAY

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coverant with said Assigned, its successors, assigns, and legal representatives that no assignment, grant. Interturage, licensed or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date	Name: Xuezhe Zheng
Date	Name: Shifu Yuan
Date	Name: Roger Helkey
9-9-2007 Date	Name: Marduke Yousepfor
Date	Name: Charles Matthew Corbalis
Date	Name: Chandrasekhar Pusaria
Date	Name:
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BLARELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
1279 Calenced Parkway
Surmyvale, CA 94085-4040
Telephono: (408) 720-8300

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Page 2 of 2

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Attorney's Docket No.: 4341F092

ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned:

Xuezhe Zheng; Shifu Yuan; Roger Helkey; Marduke Yousepfor; Charles Matthew Corbalis; Chandrasekhar Pusarla

hereby sell, assign, and transfer to

Calient Networks, Inc.

a Corporation of Delaware, having a principal place of business at 5853 Rue Ferrari Avenue, San Jose, 95138 United States ("Assignee"), and its successors, assigns, and legal representatives, the entite right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which may have a declaration executed by the undersigned prior hereto or concurrently harawick and is entitled.

Method and Apparatus to Provide Multi-Channel Bulk Fiber Optical Power Detection

said patent application also identified as follows (when known):

[I/we hereby authorize an attorncy or agent for said Assignce to insort below the application number and filing date of said patent application when known.]

United States Pagent Application Nurabor 11/764,716 filed June 18, 2007

and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continued prosecution applications, continuation-in-part applications, substitute applications, repressions, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original parents, research and in cartificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a petent of patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continued prosecution applications, continuations, continued prosecution applications, continuations, continued prosecution applications, reexaminations, continued on improvements; execute all rightful extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignments; execute all rightful early representatives all facts known to the undersigned retaining to said inventions or improvements and the instory thereof; and generally assist said Assignment, its successors, assigns, or legal representatives in securing and maintaining proper patent protection for said inventions or improvements and for verting title to said inventions or improvements, and all applications for patents and all patents on taid inventions or improvements, in said Assignments, and all applications for patents and all patents on taid inventions or improvements, and all applications for patents and all patents on taid inventions or improvements, and all applications for patents and all patents on taid inventions or improvements, in said Assignments, and all applications for patents and all patents on taid inventions or improvements, and all applications for patents and all patents on taid inventions or improvements, and all applications for patents and all patents on taid inventions or improvements.

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covernant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as berein expressed is possessed by the undersigned.

Each Inventor: Please Slen and Date Below; Date Name: Xuezhe Zheng Date Name: Shifu Yuan Date Name: Roger Helkey Daio Name: Marduke Yousepfor Name: Charles Matthew Corbalis Date Name: Chandrasekhar Pusaria Date Nume: Date Name: Date Name: Date Name: Date Name: Name: Date

Assignment Document Return Address:
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
1279 Oakmend Parkway
Sunnyvale, CA 94085-4040
Telephone: (408) 720-8300

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2016

Atturney's Docket No.: 434 LP092

ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hearby arknowledged, we, the undersigned:

Nuezhe Zheng; Shifu Yuan; Roger Helkey; Marduke Yousepfor; Charles Matthew Corbatis; Chardrasekhar Pusaria

hereby sell, assign, and transfer to

Calient Networks, Inc.

a Corporation of Delaware, having a principal place of business at 5803 Rue Ferrari Avenue, San Jose, 25138 United States ("Assignee"), and its successors, assigns, and legal representatives, the authorising that and interest for the United States and all foreign committee, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States parent which may have a declaration executed by the understand prior beach or concurrently herewith and is entitled

Method and Apparatus to Provide Multi-Channel Bulk Fiber Optical Power Detection

said parent application also identified as follows (when known):

[I/we hereby authorize an attorney or agent for said Assigned to insent below the application number and filing date of said patent application when known.]

United States Patent Application Number 11/764,716 filed June 18, 2007

and in said to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, mility applications, design applications, divisional applications, continuated applications, continuated prosecution applications, continuation-in-part applications, substitute applications, recursive applications, recursive applications, recursive extensions and all other parent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements, and in and to all original patents, reissued patents, recursimization confidences, and exceptions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

egree that said Assigner may apply for and receive a parent or patents for said inventions or improvements in its own name; and that, whon requested, without charge to, but at the expense of, anid Assignment, the sassigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, are applications, continuation in-part applications, continuation applications, recommended applications, powers of automay, and other papert; communicate to said Assigned, its successors, assigns, and legal representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof: and generally assist said Assigned, its successors, assigns, or legal representatives in securing and maintaining proper patent protection for said inventions or improvements, and all applications for patents and all parents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

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coverant with said Anignes, in successors, serigra, and legal representatives then to sestigament, grant, morragent, because, or other appearant effecting the rights and property based conveyed has been made to others by the undersigned, and that full right to others the same as herein expressed in passessed by the undersigned.

Each Dovestor: Please Sten and Date Release

Date	Name: Xnezhe Zheng
Dace	Name: Shifu Yuan
Date	Name; Roger Helkey
Date	Name: Mardake Yousepfor
Dane	Name: Charles Matthew Corbalis
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BLAKELY, SOKOLOHF, TAYLON & ZAPKAN LLP
1279 Oakmond Parkway
Sunnyvale, CA 94085-4040
Telephone: (408) 720-8300

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