

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Xinkuan Zhou</td><td>07/09/2008</td></tr><tr><td>Clifton Powers</td><td>07/09/2008</td></tr><tr><td>Laxman Anne</td><td>07/09/2008</td></tr><tr><td>Manish Sharma</td><td>07/09/2008</td></tr><tr><td>Joe Polland</td><td>07/09/2008</td></tr></tbody></table>	Name	Execution Date	Xinkuan Zhou	07/09/2008	Clifton Powers	07/09/2008	Laxman Anne	07/09/2008	Manish Sharma	07/09/2008	Joe Polland	07/09/2008	
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RECEIVING PARTY DATA													
<table border="1"><tr><td>Name:</td><td>ADC DSL Systems, Inc.</td></tr><tr><td>Street Address:</td><td>13625 Technology Drive</td></tr><tr><td>City:</td><td>Eden Prairie</td></tr><tr><td>State/Country:</td><td>MINNESOTA</td></tr><tr><td>Postal Code:</td><td>55344</td></tr></table>	Name:	ADC DSL Systems, Inc.	Street Address:	13625 Technology Drive	City:	Eden Prairie	State/Country:	MINNESOTA	Postal Code:	55344			
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PROPERTY NUMBERS Total: 1													
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Application Number:	12172433												
CORRESPONDENCE DATA													
Fax Number: (612)332-4731 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone: 612-332-4720													
Email: docketing@fogglaw.com													
Correspondent Name: Fogg & Powers LLC													
Address Line 1: 10 S Fifth St Ste 1000													
Address Line 4: Minneapolis, MINNESOTA 55402													
ATTORNEY DOCKET NUMBER:	100.882US01												
NAME OF SUBMITTER:	Julia M. Sisterman												

OP \$40.00 12172433

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PATENT
REEL: 021232 FRAME: 0871

Total Attachments: 4

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PATENT

REEL: 021232 FRAME: 0872

ASSIGNMENT

WHEREAS, we, Xinkuan Zhou residing at 8685 Magnolia Trail, Eden Prairie, MN 55344, US; Clifton Powers residing at 8829 Stage Ford Road, Raleigh, NC 27615, US; Laxman Anne residing at 13050 Dahlia Circle, Eden Prairie, MN 55344, US; Manish Sharma residing at 13000 Dahlia Circle, Eden Prairie, MN 55344-6693, US; and Joe Polland residing at 13800 Chestnut Drive, Eden Prairie, MN 55344, US made certain new and useful inventions and improvements for which we executed an application for Letters Patent of the United States filed herewith, entitled A REGENERATOR UNIT (the "Application").

AND WHEREAS, ADC DSL Systems, Inc., a corporation organized and existing under and by virtue of the laws of the State of Minnesota, and having an office and place of business at 13625 Technology Drive, Eden Prairie, MN 55344-2252, (hereinafter "Assignee") is desirous of acquiring the entire right, title and interest in and to the inventions, improvements and the Application and in and to the Letters Patent to be obtained therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto the Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the Application, and in and to the Application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the inventions and improvements to the Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the Assignee, its successors and assigns.

AND, for the consideration identified above, we do agree that me and my executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to the Assignee, its successors and representatives all facts known to me relating to the improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in the Assignee, its successors or assigns the entire right, title and interest in and to the improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore we covenant and agree with the Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

Assignment
Title: A REGENERATOR UNIT
ATTORNEY DOCKET: 100.882US01
PAGE 2 OF 4

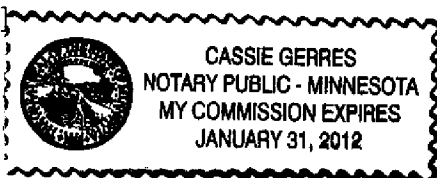
IN TESTIMONY WHEREOF, I have hereunto set my hand this 9 day of July,
2008.

STATE of MN)
COUNTY of Scott) ss.

Xinkuan Zhou
Xinkuan Zhou

On this 9 day of July, 2008, before me personally appeared Xinkuan Zhou to me known to be the person described herein and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth.

[SEAL]



Cassie Gerres
Notary Public

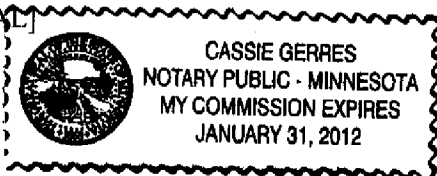
IN TESTIMONY WHEREOF, I have hereunto set my hand this 9 day of July,
2008.

STATE of MN)
COUNTY of Scott) ss.

Clifton Powers
Clifton Powers

On this 9 day of July, 2008, before me personally appeared Clifton Powers to me known to be the person described herein and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth.

[SEAL]



Cassie Gerres
Notary Public

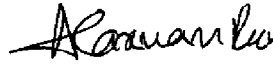
Assignment

Title: A REGENERATOR UNIT

ATTORNEY DOCKET: 100.882US01

PAGE 3 OF 4

IN TESTIMONY WHEREOF, I have hereunto set my hand this 9 day of July, 2008.

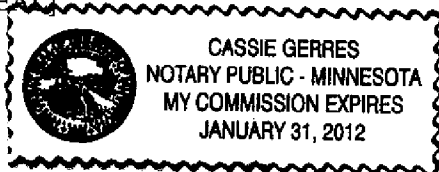


Laxman Anne

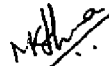
STATE of MN)
COUNTY of Scott)ss.

On this 9 day of July, 2008, before me personally appeared Laxman Anne to me known to be the person described herein and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth.

[SEAL]


Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this 9 day of July, 2008.

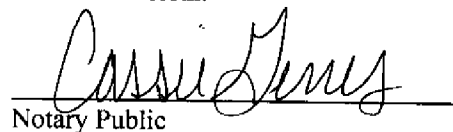
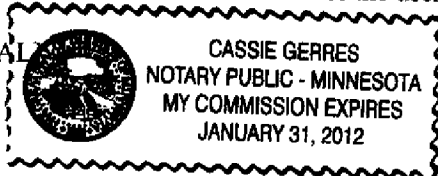


Manish Sharma

STATE of MN)
COUNTY of Scott)ss.

On this 9 day of July, 2008, before me personally appeared Manish Sharma to me known to be the person described herein and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth.

[SEAL]


Notary Public

Assignment

Title: A REGENERATOR UNIT

ATTORNEY DOCKET: 100.882US01

PAGE 4 OF 4

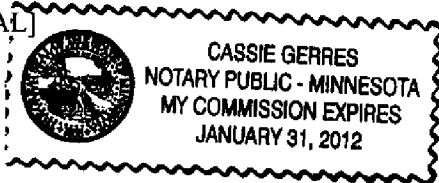
IN TESTIMONY WHEREOF, I have hereunto set my hand this 9 day of July,
2008.

Joe Polland
Joe Polland

STATE of MN)
COUNTY of Scott)ss.

On this 9 day of July, 2008, before me personally appeared Joe Polland to me known to be the person described herein and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth.

[SEAL]



Cassie Gerres
Notary Public