

PATENT ASSIGNMENT

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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>05/19/2009</td> </tr> <tr> <td>Clifton Powers</td> <td>05/19/2009</td> </tr> <tr> <td>Laxman Anne</td> <td>05/18/2009</td> </tr> <tr> <td>Manish Sharma</td> <td>05/18/2009</td> </tr> <tr> <td>Joe Polland</td> <td>05/18/2009</td> </tr> </tbody> </table>		Name	Execution Date	Xinkuan Zhou	05/19/2009	Clifton Powers	05/19/2009	Laxman Anne	05/18/2009	Manish Sharma	05/18/2009	Joe Polland	05/18/2009
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Clifton Powers	05/19/2009												
Laxman Anne	05/18/2009												
Manish Sharma	05/18/2009												
Joe Polland	05/18/2009												
RECEIVING PARTY DATA													
Name:	ADC DSL Systems, Inc.												
Street Address:	13625 Technology Drive												
City:	Eden Prairie												
State/Country:	MINNESOTA												
Postal Code:	55344												
PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12468562</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12468562								
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CORRESPONDENCE DATA													
Fax Number:	(952)465-0771												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone:	9524650770												
Email:	docketing@fogglaw.com												
Correspondent Name:	Fogg & Powers LLC												
Address Line 1:	5810 W. 78th Street												
Address Line 2:	Ste 100												
Address Line 4:	Minneapolis, MINNESOTA 55439												
ATTORNEY DOCKET NUMBER:	100.1063US01												
NAME OF SUBMITTER:	Julia M. Sisterman												

OP \$40.00 12468562

Total Attachments: 12

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ASSIGNMENT

WHEREAS, we, Xinkuan Zhou residing at Mingxigu, I-603, Shekou, Shenzhen, P.R. China; 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 SYSTEM AND METHOD FOR MULTIPLEXING FRACTIONAL TDM FRAMES (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.

IN TESTIMONY WHEREOF, THE UNDERSIGNED has hereunto set his hand on the date indicated below.

Xinkuan Zhou

Date

Witness

Date

Witness

Date

IN TESTIMONY WHEREOF, I have hereunto set my hand this ____ day of _____,
2009.

Clifton Powers

STATE of _____)
)ss.
COUNTY of _____)

On this ____ day of _____, 2009, 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]

Notary Public

Assignment
Title: SYSTEM AND METHOD FOR MULTIPLEXING FRACTIONAL TDM FRAMES
ATTORNEY DOCKET: 100.1063US01
PAGE 2 OF 4

IN TESTIMONY WHEREOF, I have hereunto set my hand this 18 day of May,
2009.

LaxmanAnne
LaxmanAnne

STATE of MN)
COUNTY of Scott)ss.

On this 18 day of May, 2009, before me personally appeared LaxmanAnne 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 Shaughnessy Gerres
Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this 18 day of May,
2009.

Manish
Manish Sharma

STATE of MN)
COUNTY of Scott)ss.

On this 18 day of May, 2009, 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]



Cassie Shaughnessy Gerres
Notary Public

Assignment
Title: SYSTEM AND METHOD FOR MULTIPLEXING FRACTIONAL TDM FRAMES
ATTORNEY DOCKET: 100.1063US01
PAGE 3 OF 4

IN TESTIMONY WHEREOF, I have hereunto set my hand this 18 day of May,
2009.

Joe Pollard
Joe Pollard

STATE of MN
COUNTY of Scott)ss.

On this 18 day of May, 2009, 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]



Cassie Shaughnessy Jones
Notary Public

ASSIGNMENT

WHEREAS, we, Xinkuan Zhou residing at Mingxigu, 1-603, Shekou, Shenzhen, P.R. China; 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 SYSTEM AND METHOD FOR MULTIPLEXING FRACTIONAL TDM FRAMES (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.

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ATTORNEY DOCKET: 100.1063US01

PAGE 3 OF 4

IN TESTIMONY WHEREOF, I have hereunto set my hand this ____ day of _____,
2009.

Joe Pollard

STATE of _____)
)ss.
COUNTY of _____)

On this ____ day of _____, 2009, 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

WHEREAS, we, Xinkuan Zhou residing at Mingxigu, 1-603, Shekou, Shenzhen, P.R. China; 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 SYSTEM AND METHOD FOR MULTIPLEXING FRACTIONAL TDM FRAMES (the "Application").

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Assignment

Title: SYSTEM AND METHOD FOR MULTIPLEXING FRACTIONAL TDM FRAMES

ATTORNEY DOCKET: 100.1063US01

PAGE 2 OF 4

IN TESTIMONY WHEREOF, I have hereunto set my hand this ____ day of _____, 2009.

LaxmanAnne

STATE of _____)
)ss.
COUNTY of _____)

On this ____ day of _____, 2009, before me personally appeared LaxmanAnne 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 ____ day of _____, 2009.

Manish Sharma

STATE of _____)
)ss.
COUNTY of _____)

On this ____ day of _____, 2009, 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

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 2009.

Xinkuan Zhou

STATE of _____)
)ss.
COUNTY of _____)

On this _____ day of _____, 2009, 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]

Notary Public

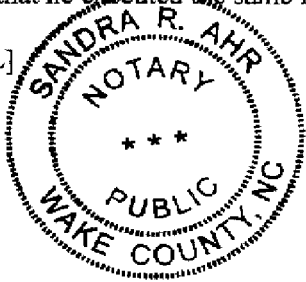
IN TESTIMONY WHEREOF, I have hereunto set my hand this 19 day of May, 2009.

Clifton Powers
Clifton Powers

STATE of NC)
)ss.
COUNTY of Wake)

On this 19 day of May, 2009, 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]



Sandra R Ahr
Notary Public Sandra R Ahr
3.16.2014