

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT2769016

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
PHILIP M. WALA	02/19/2014
DEAN ZAVADSKY	02/20/2014
JODY FORLAND	03/14/2014
JEFFREY J. CANNON	02/19/2014
JOHN M. HEDIN	02/19/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ADC TELECOMMUNICATIONS, INC.
<b>Street Address:</b>	1187 PARK PLACE
<b>City:</b>	SHAKOPEE
<b>State/Country:</b>	MINNESOTA
<b>Postal Code:</b>	55379
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14187115
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(952)465-0771
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	9524650770
<b>Email:</b>	DOCKETING@FOGGLAW.COM
<b>Correspondent Name:</b>	FOGG & POWERS LLC
<b>Address Line 1:</b>	5810 W. 78TH STREET
<b>Address Line 2:</b>	SUITE 100
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55439
<b>ATTORNEY DOCKET NUMBER:</b>	100.1256US01
<b>NAME OF SUBMITTER:</b>	LISA D. GENTRY
<b>SIGNATURE:</b>	/Lisa D. Gentry/
<b>DATE SIGNED:</b>	03/14/2014
<b>Total Attachments: 12</b> source=00417136#page1.tif	

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## ASSIGNMENT

WHEREAS, we, Philip M. Wala residing at 14082 Toledo Court, Savage, MN 55378, US; Dean Zavadsky residing at 1478 Ashbourne Circle, Shakopee, MN 55379, US; Jody Forland residing at 8550 Trista Lane East, St. Bonifacius, MN 55375, US; Jeffrey J. Cannon residing at 8358 Oak Drive, Victoria, MN 55386, US; and John M. Hedin residing at 1506 99th Circle, Coon Rapids, MN 55433-6407, 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 MASTER REFERENCE FOR BASE STATION NETWORK INTERFACE SOURCED FROM DISTRIBUTED ANTENNA SYSTEM (the "Application").

AND WHEREAS, ADC Telecommunications, 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 1187 Park Place, Shakopee, MN 55379, (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;

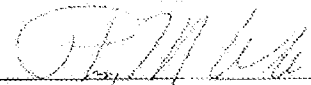
NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto the Assignee, its successors or assigns, the entire 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: MASTER REFERENCE FOR BASE STATION NETWORK INTERFACE SOURCED FROM DISTRIBUTED ANTENNA SYSTEM  
ATTORNEY DOCKET: 100.1256US01  
PAGE 2 OF 4

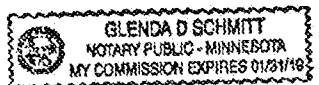
IN TESTIMONY WHEREOF, I have hereunto set my hand this 19 day of February,  
2014.

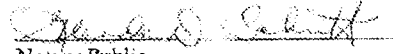
  
Philip M. Wala

STATE of Minnesota)  
  )ss.  
COUNTY of Scott)

On this 19th day of February, 2014, before me personally appeared Philip M. Wala 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 \_\_\_\_\_,  
2014.

\_\_\_\_\_  
Dean Zavadsky

STATE of \_\_\_\_\_)  
  )ss.  
COUNTY of \_\_\_\_\_)

On this \_\_\_ day of \_\_\_\_\_, 2014, before me personally appeared Dean Zavadsky 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: MASTER REFERENCE FOR BASE STATION NETWORK INTERFACE SOURCED FROM DISTRIBUTED ANTENNA SYSTEM  
ATTORNEY DOCKET: 100.1256US01  
PAGE 3 OF 4

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day of \_\_\_\_\_, 2014.

\_\_\_\_\_  
Jody Forland

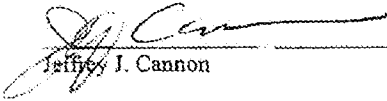
STATE of \_\_\_\_\_ )  
  )ss.  
COUNTY of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2014, before me personally appeared Jody Forland 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 February, 2014.


  
\_\_\_\_\_  
Jeffrey J. Cannon

STATE of Minnesota )  
  )ss.  
COUNTY of Scott )

On this 19th day of February, 2014, before me personally appeared Jeffrey J. Cannon 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: MASTER REFERENCE FOR BASE STATION NETWORK INTERFACE SOURCED FROM DISTRIBUTED  
ANTENNA SYSTEM  
ATTORNEY DOCKET: 100.1256US01  
PAGE 4 OF 4

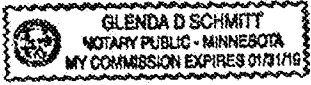
IN TESTIMONY WHEREOF, I have hereunto set my hand this 14<sup>th</sup> day of FEBRUARY  
2014.

John M. Hedin  
John M. Hedin

STATE of MINNESOTA  
)ss.  
COUNTY of Scott

On this 14<sup>th</sup> day of February, 2014, before me personally appeared John M. Hedin 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]



Glenda D Schmitt  
Notary Public

## ASSIGNMENT

WHEREAS, we, Philip M. Wala residing at 14082 Toledo Court, Savage, MN 55378, US; Dean Zavadsky residing at 1478 Ashbourne Circle, Shakopee, MN 55379, US; Jody Forland residing at 8550 Trista Lane East, St. Bonifacius, MN 55375, US; Jeffrey J. Cannon residing at 8358 Oak Drive, Victoria, MN 55386, US; and John M. Hedin residing at 1506 99th Circle, Coon Rapids, MN 55433-6407, 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 MASTER REFERENCE FOR BASE STATION NETWORK INTERFACE SOURCED FROM DISTRIBUTED ANTENNA SYSTEM (the "Application").

AND WHEREAS, ADC Telecommunications, 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 1187 Park Place, Shakopee, MN 55379, (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: MASTER REFERENCE FOR BASE STATION NETWORK INTERFACE SOURCED FROM DISTRIBUTED ANTENNA SYSTEM

ATTORNEY DOCKET: 100.1256US01

PAGE 2 OF 4

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 2014.

\_\_\_\_\_  
Philip M. Wala

STATE of \_\_\_\_\_ )  
  )ss.  
COUNTY of \_\_\_\_\_ )

On this \_\_\_\_ day of \_\_\_\_\_, 2014, before me personally appeared Philip M. Wala 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 20 day of February, 2014.

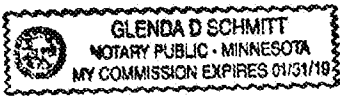
*[Signature]*  
\_\_\_\_\_  
Dean Zavadsky

STATE of MA )  
  )ss.  
COUNTY of Scott )

On this 20<sup>th</sup> day of February, 2014, before me personally appeared Dean Zavadsky 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]

*[Signature]*  
\_\_\_\_\_  
Notary Public





Assignment

Title: MASTER REFERENCE FOR BASE STATION NETWORK INTERFACE SOURCED FROM DISTRIBUTED ANTENNA SYSTEM

ATTORNEY DOCKET: 100.1256US01

PAGE 3 OF 4

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 2014.

\_\_\_\_\_  
Jody Forland

STATE of \_\_\_\_\_ )  
  )ss.  
COUNTY of \_\_\_\_\_ )

On this \_\_\_\_ day of \_\_\_\_\_, 2014, before me personally appeared Jody Forland 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 \_\_\_\_\_, 2014.

\_\_\_\_\_  
Jeffrey J. Cannon

STATE of \_\_\_\_\_ )  
  )ss.  
COUNTY of \_\_\_\_\_ )

On this \_\_\_\_ day of \_\_\_\_\_, 2014, before me personally appeared Jeffrey J. Cannon 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

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PAGE 4 OF 4

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_,  
2014.

\_\_\_\_\_  
John M. Hedin

STATE of \_\_\_\_\_ )  
  )ss.  
COUNTY of \_\_\_\_\_ )

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[SEAL]

\_\_\_\_\_  
Notary Public

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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.

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ATTORNEY DOCKET: 100.1256US01

PAGE 3 OF 4

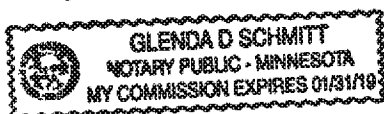
IN TESTIMONY WHEREOF, I have hereunto set my hand this 14 day of March, 2014.

Jody Forland  
Jody Forland

STATE of Minnesota)  
COUNTY of Scott)ss.

On this 14th day of \_\_\_\_\_, 2014, before me personally appeared Jody Forland 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]



Glenda D. Schmitt  
Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 2014.

\_\_\_\_\_  
Jeffrey J. Cannon

STATE of \_\_\_\_\_)  
COUNTY of \_\_\_\_\_)ss.

On this \_\_\_\_\_ day of \_\_\_\_\_, 2014, before me personally appeared Jeffrey J. Cannon 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: MASTER REFERENCE FOR BASE STATION NETWORK INTERFACE SOURCED FROM DISTRIBUTED ANTENNA SYSTEM

ATTORNEY DOCKET: 100.1256US01

PAGE 4 OF 4

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_,  
2014.

\_\_\_\_\_  
John M. Hedin

STATE of \_\_\_\_\_ )  
                              )ss.  
COUNTY of \_\_\_\_\_ )

On this \_\_\_\_ day of \_\_\_\_\_, 2014, before me personally appeared John M. Hedin 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