07/31/2018 505029787

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5076538

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
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	02/14/2014

RECEIVING PARTY DATA

Name:	ADC TELECOMMUNICATIONS, INC.	
Street Address:	1187 PARK PLACE	
City:	SHAKOPEE	
State/Country:	MINNESOTA	
Postal Code:	55379	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16030642

CORRESPONDENCE DATA

Fax Number: (952)465-0771

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Email: docketing@fogglaw.com **FOGG & POWERS LLC Correspondent Name:** Address Line 1: 4600 W 77TH STREET

Address Line 2: SUITE 305

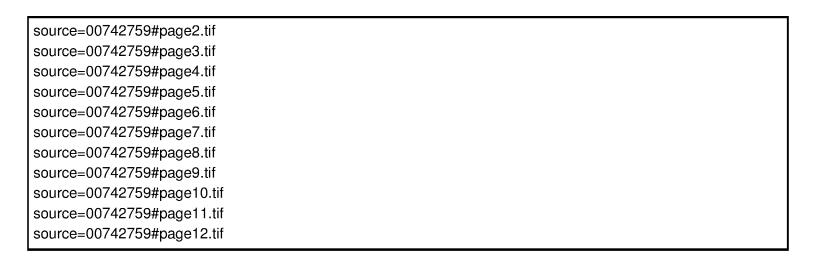
Address Line 4: MINNEAPOLIS, MINNESOTA 55435

ATTORNEY DOCKET NUMBER:	ADC004591/100.1256US02	
NAME OF SUBMITTER:	EMILY J. RELLER	
SIGNATURE:	/Emily J. Reller/	
DATE SIGNED:	07/31/2018	

Total Attachments: 12 source=00742759#page1.tif

> **PATENT** REEL: 046517 FRAME: 0984

505029787



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 STATI ANTENNA SYSTEM	ON NETWORK INTERFACE SOURCED FROM DISTRIBUTED
ATTORNEY DOCKET: 100.1256US01 PAGE 2 OF 4	
IN TESTIMONY WHEREOF, I have b	ercunto set my hand this 19 day of <u>February</u> ,
2014.	Philip M. Wala
STATE of Minnes de	tump m. or aia
STATE of <u>A(1910 s. 42)</u>)ss. COUNTY of <u>Acc 47</u>)	
On this 1944, day of February known to be the person described herein and w to me that he executed the same for the uses an	, 2014, before me personally appeared Philip M. Wala to me ho executed the foregoing instrument, and he duly acknowledged d purposes therein set forth.
GLENDA D SCHMITT OTTAN PUBLIC - MINNESOTA MY COMMISSION EXPIRES OUR 1/19	Notary Public
IN TESTIMONY WHEREOF, I have 2014.	hereunto set my hand thisday of,
	Dean Zavadsky
STATE of)	Dean Zavadsay
COUNTY of	
On this day of	, 2014, before me personally appeared Dean Zavadsky to me tho executed the foregoing instrument, and he duly acknowledged ad purposes therein set forth.
[SEAL]	
	Notary Public

Assignment Title: MASTER REFERENCE FOR BASE STATION NI ANTENNA SYSTEM	ETWORK INTERFACE SOURCED FROM DISTRIBUTED
Attorney Docket: 100.1256US01 Page 3 of 4	
	to set my hand thisday of,
2014.	
	Jody Forland
STATE of)	
COUNTY of)	
known to be the person described herein and who ex- to me that he executed the same for the uses and purp	014, before me personally appeared JodyForland to me ecuted the foregoing instrument, and he duly acknowledged coses therein set forth.
[SEAL]	
	Notary Public
	nto set my hand this A day of February,
2014,	
	retires 1. Cannon
STATE of Mane We_)	CV
COUNTY of Seatt)	
On this 19th day of February , 2 me known to be the person described herein and who acknowledged to me that he executed the same for the	
(SEAL) GLENDAD SCHMITT HOTANY PUBLIC - MINNESOTA	Notary Public

ATTORNEY DOCKET: 100.1256US01
PAGE 4 OF 4

IN TESTIMONY WHEREOF, I have hereunto set my hand this 14th day of February

John M. Hedin

STATE of Mages 1)
SS.

COUNTY of Left

On this 19th 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.

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

Assignment

(SEAL)

GLENDA D SCHMITT NOTARY PUBLIC - MINNESOTA MY COMMISSION EXPIRES OF THE

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 Assignce 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, Leiters 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.

ASSIGNMEN Title: MASTER REFERENCE FOR BASE STATIO! ANTENNA SYSTEM	N NETWORK INTERFACE SOURCED FROM DISTRIBUTED
ATTORNEY DOCKET: 100.1256US01 PAGE 2 OF 4	
IN TESTIMONY WHEREOF, I have her	reunto set my hand thisday of,
2014.	
	Philip M. Wala
STATE of)	A CONTRACTOR OF THE CONTRACTOR
)ss. COUNTY of)	*
On thisday of known to be the person described herein and who to me that he executed the same for the uses and p	_, 2014, before me personally appeared Philip M. Wala to me executed the foregoing instrument, and he duly acknowledged outposes therein set forth.
(SEAL)	
	Notary Public
IN TESTIMONY WHEREOF, I have her	reunto set my band this 20 day of Folorway.
STATE of MA)	Dean Zavadsky
COUNTY of Sat)ss.	
On this 26 4 day of <u>Fabruary</u> known to be the person described herein and who to me that he executed the same for the uses and p	, 2014, before me personally appeared Dean Zavadsky to me o executed the foregoing instrument, and he duly acknowledged purposes therein set forth.
[SEAL]	Step D. S. L. #
GLENDA D SCHMITT NOTARY PUBLIC - MINNESOTA MY COMMISSION EXPIRES 01/31/19	Notary Public

Assignmen Fide: MASTER REFERENCE FOR BASE STATIOI ANTENNA SYSTEM	N NETWORK INTERFACE SOURCED FROM DISTRIBUTED
ATTORNEY DOCKET: 100.1256US01	
PAGE 3 OF 4	
	reunto set my hand thisday of,
2014.	
	Jody Forland
STATE of))ss.	
)ss, COUNTY of)	
On this day of known to be the person described herein and who to me that he executed the same for the uses and p	, 2014, before me personally appeared JodyForland to me executed the foregoing instrument, and he duly acknowledged purposes therein set forth,
(SEAL)	
	Notary Public
IN TESTIMONY WHEREOF, I have he	reunto set my hand thisday of,
2014.	
	Jeffrey J. Cannon
STATE of))ss.	·
COUNTY of)	
On this day of me known to be the person described herein and acknowledged to me that he executed the same for	, 2014, before me personally appeared Jeffrey J. Cannon to who executed the foregoing instrument, and he duly or the uses and purposes therein set forth.
[SEAL]	
	Notavy Public

Assignment Title: MASTER REFERENCE FOR BASE S ANTENNA SYSTEM	STATION NETWORK INTERFACE SOURCED FROM DISTRIBUTED
ATTORNEY DOCKET: 100.1256US01 Page 4 of 4	
IN TESTIMONY WHEREOF, I	have hereunto set my hand thisday of,
2014.	
	John M. Hedin
STATE of)	
COUNTY of)	
On thisday of known to be the person described herein a to me that he executed the same for the us	, 2014, before me personally appeared John M. Hedin to me and who executed the foregoing instrument, and he duly acknowledge ses and purposes therein set forth.
[SEAL]	
	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, 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.

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ASSIGNMENT Title: MASTER REFERENCE FOR BASE STATION NETWORK INTERFACE SOURCED FROM DIST	ΓRIBUTED
ANTENNA SYSTEM	
ATTORNEY DOCKET: 100.1256US01 PAGE 2 OF 4	
IN TESTIMONY WHEREOF, I have hereunto set my hand thisday of	
2014.	
Philip M. Wala	
STATE of)) ss. COUNTY of)	
COUNTY of)	
On this day of, 2014, before me personally appeared Philip M. known to be the person described herein and who executed the foregoing instrument, and he duly a to me that he executed the same for the uses and purposes therein set forth.	Wala to me acknowledged
[SEAL]	
Notary Public	
DI TECTIMONNY WHEDEOF The allow the set of the lattice of the set	
IN TESTIMONY WHEREOF, I have hereunto set my hand thisday of	,
Dean Zavadsky	
STATE of)	
STATE of)) ss. COUNTY of)	
On this day of, 2014, before me personally appeared Dean Zav known to be the person described herein and who executed the foregoing instrument, and he duly a to me that he executed the same for the uses and purposes therein set forth.	adsky to me cknowledged
[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 4 day of Mayou.
2014.
STATE of Manage of the Company of th
COUNTY of Sactor
On this /d/k day of , 2014, before me personally appeared JodyForland 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.
GLENDA D SCHMITT SOTARY PUBLIC: MINNESOTA MY COMMISSION EXPIRES 01/31/19 Notary Public
IN TESTIMONY WHEREOF, I have hereunto set my hand thisday 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

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 thisday of,
, , , , , , , , , , , , , , , , , , , ,
2014.
John M. Hedin
STATE of)
)ss.
COUNTY of)
<u> </u>
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.
to the that he excedited the same for the uses and purposes therein set forth.
[SEAL]
L J

RECORDED: 07/31/2018

Notary Public