

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JOHN L. NORIN	05/29/2014
ROBERT F. POPOLI	10/24/2013
DIPAK M. SHAH	10/24/2013
RECEIVING PARTY DATA	
Name:	The DIRECTV Group, Inc.
Street Address:	2230 E. Imperial Highway
City:	El Segundo
State/Country:	CALIFORNIA
Postal Code:	90245
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13923996
CORRESPONDENCE DATA	
Fax Number:	(310)964-0941
<i>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.</i>	
Email:	janet.shibata@directv.com
Correspondent Name:	THE DIRECTV GROUP, INC.
Address Line 1:	2230 E. IMPERIAL HIGHWAY
Address Line 2:	CA/LA5/A109
Address Line 4:	EL SEGUNDO, CALIFORNIA 90245
ATTORNEY DOCKET NUMBER:	PD-212009
NAME OF SUBMITTER:	JANET SHIBATA
SIGNATURE:	/Janet Shibata/
DATE SIGNED:	05/29/2014
Total Attachments: 3	
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ASSIGNMENT

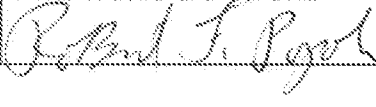
WHEREAS, JOHN L. NORIN, ROBERT F. POPOLI and DIPAK M. SHAH, as below named joint inventors of the city and state as stated below next to our names, have invented a(an) **ROTATION POINTED ANTENNA FOR FIXED WIRELESS WIDE AREA NETWORKS** for which application for Letters Patent of the United States was filed on June 21, 2013 as U.S. Patent Application Serial No. 13/923,996, and which application is a continuation-in-part of U.S. Patent Application Serial Nos. 12/797,412 filed June 9, 2010 and 12/797,570 filed June 9, 2010.


WHEREAS, The DIRECTV Group, Inc. (hereinafter referred to as the "Company"), a Delaware Corporation, having its principal place of business in El Segundo, California, is desirous of acquiring the entire and exclusive right, title and interest in, to and under said invention, said application and any and all Letters Patent that may be granted therefore in the United States and throughout the world;

NOW, THEREFORE, in consideration of the obligations voluntarily assumed by us and set forth in invention agreements between us and our employer, effective the date as stated below next to our names, and other good and valuable consideration, receipt of which is hereby acknowledged, we do hereby sell, assign and transfer to the Company, its successors, assigns or other legal representatives, the entire and exclusive right, title and interest in and to said invention invented by us, to said application and any and all applications which are continuations, continuations-in-part, divisions or substitutes of said application and any and all Letters Patent that may be granted therefore in the United States and throughout the world on any of said applications and to any and all reexaminations, reissues, renewals or extensions of said Letters Patent in the United States and throughout the world for the full term or terms for which said Letters patent may be granted in the United States and throughout the world; authorize and request The Commissioner of Patents and Trademarks of the United States and all foreign countries to issue all such Letters Patent to said Company, its successors, assigns or other legal representatives; covenant that no assignment, sale, agreement, transfer or encumbrance has been, or will be, made or entered into which would conflict with this assignment, sale and transfer; and agree to communicate to the Company, its successors, assigns or other legal representatives, upon request and at no cost or expense to us, any facts known by us respecting said invention, do all lawful acts, including the execution and delivery of all papers and proper oaths and giving of testimony that is deemed necessary or desirable by the Company, its successors, assigns or other legal representatives with regard to said invention for protecting, obtaining, maintaining and enforcing any and all of said Letters Patent in the United States and throughout the world for said invention and for perfecting, affirming, recording and maintaining the title of the Company, its successors, assigns or other legal representatives, and generally cooperate to the fullest extent in all matters pertaining to said invention, and any and all of said Letters Patent and the title thereto in the Company, its successors, assigns or other legal representatives.

IN WITNESS WHEREOF, we have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
JOHN L. NORIN		5/29/2014
RESIDENCE (CITY AND STATE) Redondo Beach, California		

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
ROBERT F. POPOLI		10/24/2013
RESIDENCE (CITY AND STATE) Rancho Palos Verdes, California		

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
DIPAK M. SHAH		Oct. 24, 2013
RESIDENCE (CITY AND STATE) Westminster, California		

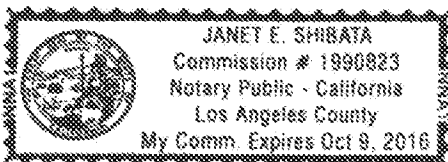
STATE OF CALIFORNIA)
) SS:
COUNTY OF LOS ANGELES)

On May 29, 2014, before me, Janet E. Shibata, a Notary Public in and for said State, personally appeared JOHN L. NORIN, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.


Notary Public

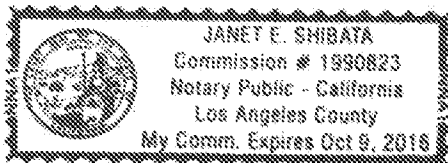


STATE OF CALIFORNIA)
) SS:
COUNTY OF LOS ANGELES)

On October 24, 2013, before me, Janet E. Shibata, a Notary Public in and for said State, personally appeared ROBERT F. POPOLI, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



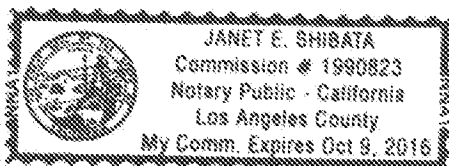
Janet E. Shibata
Notary Public

STATE OF CALIFORNIA)
) SS:
COUNTY OF LOS ANGELES)

On October 24, 2013, before me, Janet E. Shibata, a Notary Public in and for said State, personally appeared DIPAK M. SHAH, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Janet E. Shibata
Notary Public