SUBSTITUTE FORM PTO-1595 Attorney Docket No. PD-206049

PATENTS ONLY		
\	k Office: Please record the attached document below.	
1. Name of conveying party(ies)	2. Name and address of receiving party(ies)	
Tony Rossell Paul Christenson Cecilia C. Comeaux Salvador A. Lozano Wayne Ladrach Additional name(s) of conveying party(ies) attached	Name: The DirecTV Group, Inc. Internal Address: P. O. Box 956 Street Address: 2230 E. Imperial Highway City: El Segundo State: California Country: USA 90245	
Yes No	Additional name(s) & address(es) attached?	
3. Nature of conveyance/Execution Date(s): Execution Date(s):	☐ Yes ☒ No	
Rossell: November 27, 2006 Christenson: November 20, 2006 Comeaux: November 6, 2006 Lozano: November 2, 2006 Ladrach: November 4, 2006  Assignment		
4. Application or patent number(s): ☐ This doc	ument is being filed together with a new application.	
A. Patent Application No.(s) 11/529,915	B. Patent No.(s)	
Additional numbers attach		
5. Name and address to whom correspondence concerning documents should be mailed:	6. Total number of applications and patents involved: One (1)	
Name: The DirecTV Group, Inc. Internal Address: CA/LA1/A109 P. O. Box 956	7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00  ☐ Authorized to be charged by credit card ☐ Authorized to be charged to deposit account ☐ Enclosed	
Street Address: 2230 E. Imperial Highway City: El Segundo State: California	<ul><li>□ None required (government interest not affecting title)</li><li>8. Payment Information</li></ul>	
Zip: 90245 Phone Number: 310-964-4615 Fax Number: 310-964-0941	a. Credit Card Last 4 Numbers Expiration Date	
Email Address: gsgrunebach@directv.com	b. Deposit Account Number 50-0383     Authorized User     Name Georgann S. Grunebach	
	140100 AAAING OLUMBUACH	

Serial No. 11/529,915

9. Signature:

<u>December 4, 2006</u>

Date

Signature Georgann S. Grunebach

Name of Person Signing

Total number of pages including cover sheet, attachments and documents:

13

**REEL: 018592 FRAME: 0182** 



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## **ASSIGNMENT**

WHEREAS, TONY ROSSELL, PAUL CHRISTENSON, CECILIA C. COMEAUX, SALVADOR A. LOZANO and WAYNE LADRACH, as below named joint inventors of the city and state as stated below next to our names, have invented a METHOD AND SYSTEM FOR BROADCASTING IN A SATELLITE COMMUNICATION SYSTEM WHEN SWITCHING BETWEEN A PRIMARY SITE AND A DIVERSE SITE for which application for Letters Patent of the United States has been filed on September 29, 2006, as Serial No. 11/529,915;

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, sald 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'S SIGNATURE	DATE
INVENTOR	Moter Herberg Smill	164.27,2006
MICHAEL ANTHONY (TONY) ROSSELL RESIDENCE (CITY AND STATE)	IWan Kan Jemen	1000101,000
VEGIDENCE (OLL LAND OLVIE)	<b>#</b>	
Palm City, Florida		<u> </u>
		TDATE
FULL NAME OF SOLE OR JOINT	INVENTÖR'S SIGNATURE	DATE
INVENTOR		
PAUL CHRISTENSON		
RESIDENCE (CITY AND STATE)		
Elizabeth, Colorado		
		<del></del> _
FULL NAME OF SOLE OR JOINT	INVENTOR'S SIGNATURE	DATE
INVENTOR		
CECILIA C. COMEAUX		<u> </u>
RESIDENCE (CITY AND STATE)		
Dudunda Basah, Colifornia		
Redondo Beach, California		
FULL NAME OF SOLE OR JOINT	INVENTOR'S SIGNATURE	DATE
INVENTOR		
CALVADOR A LOZANO		
SALVADOR A. LOZANO RESIDENCE (CITY AND STATE)		
11201221102 (011111111111111111111111111		
Downey, California		<u> </u>
THE NAME OF POLE OF LODING	INVENTOR'S SIGNATURE	
FULL NAME OF SOLE OR JOINT INVENTOR	HAZEMIOK O CICAMIONE	<del></del>
IIIVEITI OIL		
WAYNE LADRACH	<u> </u>	
RESIDENCE (CITY AND STATE)		
Playa del Rey, California		

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'S SIGNATURE	DATE
INVENTOR MICHAEL ANTHONY (TONY) ROSSELL		
RESIDENCE (CITY AND STATE)	<u> </u>	
Palm City, Florida		
		- DATE
FULL NAME OF SOLE OR JOINT	INVENTOR'S SIGNATURE	DATE
INVENTOR	P. P	11/20/06
PAUL CHRISTENSON	11-11-	
RESIDENCE (CITY AND STATE)		
New Braunfels, Texas		
		DATE
FULL NAME OF SOLE OR JOINT	INVENTOR'S SIGNATURE	DATE
INVENTOR		
CECILIA C. COMEAUX		
RESIDENCE (CITY AND STATE)		
Redondo Beach, California		<u> </u>
	<u></u>	
FULL NAME OF SOLE OR JOINT	INVENTOR'S SIGNATURE	DATE
INVENTOR		
SALVADOR A. LOZANO		
RESIDENCE (CITY AND STATE)		
Downey, California		
FULL NAME OF SOLE OR JOINT	INVENTOR'S SIGNATURE	DATE
INVENTOR		
WAYNE LADRACH		
RESIDENCE (CITY AND STATE)	<del></del> -	
Playa del Rey, California		<u> </u>

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'S SIGNATURE	DATE
INVENTOR MICHAEL ANTHONY (TONY) ROSSELL		
RESIDENCE (CITY AND STATE)		
TEODEROE (OIT FAIRS STATE)		
Palm City, Florida	<u> </u>	
	THE STATE OF CHARTEE	DATE
FULL NAME OF SOLE OR JOINT	INVENTOR'S SIGNATURE	DATE
INVENTOR		
PAUL CHRISTENSON		
RESIDENCE (CITY AND STATE)		
Elizabeth Calarada		
Elizabeth, Colorado		<u> </u>
FULL NAME OF SOLE OR JOINT	INVENTOR'S SIGNATURE	DATE
INVENTOR	Da = 0 0	11/2/00
OFFILIA O COMEANY	Cecilia Grnews	11/6/06
CECILIA C. COMEAUX RESIDENCE (CITY AND STATE)	<del></del>	
REGIDENCE (OTT TIME STATE)		
Redondo Beach, California		·
	INVENTOR'S SIGNATURE	DATE
FULL NAME OF SOLE OR JOINT		UATE
INVENTOR	Dal A Dorano	11/2/06
SALVADOR A. LOŻANO	- Access to the contract of th	
RESIDENCE (CITY AND STATE)		
Downey California		
Downey, California		
FULL NAME OF SOLE OR JOINT	INVENTOR'S SIGNATURE	DATE
INVENTOR		
WAYNE LADRACH RESIDENCE (CITY AND STATE)	<u> </u>	
RESIDENCE (CITT AND STATE)		
Playa del Rey, California		<u> </u>

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'S SIGNATURE	DATE
INVENTOR		'
MICHAEL ANTHONY (TONY) ROSSELL	<u> </u>	<u>L</u>
RESIDENCE (CITY AND STATE)		1
Palm City, Florida		
	<u> </u>	
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
PAUL CHRISTENSON	<u></u>	
RESIDENCE (CITY AND STATE)		
Elizabeth, Colorado		
FULL NAME OF SOLE OR JOINT	INVENTOR'S SIGNATURE	DATE
INVENTOR	INVERTORS SIGNATURE	D7 (1 E
CECILIA C. COMEAUX		
RESIDENCE (CITY AND STATE)		
Redondo Beach, California	· .	
	<u> </u>	
FULL NAME OF SÖLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
SALVADOR A. LOZANO		
RESIDENCE (CITY AND STATE)		
Downey Colifornia		
Downey, California	·	
FULL NAME OF SOLE OR JOINT	INVENTOR'S SIGNATURE	DATE
INVENTOR	Wayn a Leve	11/2-12
	Mayne (1. the	11/04/2006
WAYNE LADRACH	<u> </u>	
RESIDENCE (CITY AND STATE)		
Playa del Rey, California		

STATEMENT BY WITNESS
I, Kimberly Rossell , whose full post office address is (name of witness)
5067 SW LANDING CREEK BRIVE PARM City FL 34990 (address of witness)
was personally present and did see MICHAEL ANTHONY ROSSELL, who is known to me, execute the above
assignment.  (signature of witness)
STATEMENT BY WITNESS
I,, whose full post office address is (name of witness)
(address of witness)
was personally present and did see PAUL CHRISTENSON, who is known to me, execute the above
assignment.
(signature of witness)
STATEMENT BY WITNESS
I,, whose full post office address is (name of witness)
(address of witness)
was personally present and did see CECILIA C. COMEAUX, who is known to me, execute the above
aşsignment.

(signature of witness)

## STATEMENT BY WITNESS

	_, whose full post office address is
(name of witness)	
(addre	ss of witness)
as personally present and did see MICHAEL	LANTHONY ROSSELL, who is known to me, execute the
ssignment.	
	(signature of witness)
\$T/	ATEMENT BY WITNESS
STEVE HARROW	, whose full post office address is
•	SAN ANTONIO, TX 78258
(addre	ess of witness)
assignment.	RISTENSON, who is known to me, execute the above (signature of witness)
\$T/	ATEMENT BY WITNESS
(name of witness)	, whose full post office address is
(addre	ess of witness)
was personally present and did see CECILIA	C. COMEAUX, who is known to me, execute the above
assignment.	
	(signature of witness)

## STATEMENT BY WITNESS whose full post office address is (name of witness) (address of witness) was personally present and did see MICHAEL ANTHONY ROSSELL, who is known to me, execute the above assignment. (signature of witness) STATEMENT BY WITNESS \_, whose full post office address is (name of witness) (address of witness) was personally present and did see PAUL CHRISTENSON, who is known to me, execute the above assignment. (signature of witness) STATEMENT BY WITNESS \_, whose full post office address is JANET SHIBATA (name of witness) 2230 E. Imperial Highway, El Segundo, California 90245 (address of witness) was personally present and did see CECILIA C. COMEAUX, who is known to me, execute the above assignment.

STATEMENT BY WITNESS

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I, <u>JANET SHIBATA</u> (name of witness)	, whose full post office address is
2230 E. Imperial Highway,	El Segundo, California 90245, (address of witness)
was personally present and did see S	ALVADOR A. LOZANO, who is known to me, execute the above
assignment.	(s/gnature of witness)
	STATEMENT BY WITNESS
l,	, whose full post office address is
(name of witness)	
	(address of witness)
was personally present and did see V	VAYNE LADRACH, who is known to me, execute the above
assignment.	
	(signature of witness)

**RECORDED: 12/04/2006** 

STATEMENT BY WITNESS

ASSIGNMENT PD-206049 Page 4 of 4

, whose full post office address is
(name of witness)
(address of witness)
as personally present and did see SALVADOR A. LOZANO, who is known to me, execute the above
ssignment.
(signature of witness)
STATEMENT BY WITNESS
MARIANNE TIER LADRACH , whose full post office address is (name of witness)
7820 W. 815 ST., PLATA DEL RET, (A 90293
vas personally present and did see WAYNE LADRACH, who is known to me, execute the above
assignment.
(sgnature of witness)