

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4017161

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
RAYNOLD M. KAHN	03/05/2010
CHRISTOPHER R. ROY	05/21/2010
STEVEN KASAKITIS	05/24/2010
ERIN K. NELSON	05/21/2010
CHRISTOPHER J. CABANNE	05/25/2010
LUKE J. CROOK	05/25/2010
GREGORY VAGNATI	05/21/2010
NOREEN FONG	05/24/2010
ERIC J. BENNETT	05/21/2010
RECEIVING PARTY DATA	
Name:	THE DIRECTV GROUP, INC.
Street Address:	2230 E. IMPERIAL HIGHWAY
Internal Address:	CA / LA1 / A109
City:	EL SEGUNDO
State/Country:	CALIFORNIA
Postal Code:	90245
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15229610
CORRESPONDENCE DATA	
Fax Number:	(248)641-0270
<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>	
Phone:	248-641-1600
Email:	jbirkett@hdp.com
Correspondent Name:	HARNESS, DICKEY & PIERCE, P.L.C.
Address Line 1:	5445 CORPORATE DR. SUITE 200
Address Line 4:	TROY, MICHIGAN 48098
ATTORNEY DOCKET NUMBER:	DTV209053

NAME OF SUBMITTER:	KEVIN G. MIERZWA
SIGNATURE:	/Kevin G. Mierzwa/
DATE SIGNED:	08/22/2016
Total Attachments: 6 source=PD-209053-US Assignment#page1.tif source=PD-209053-US Assignment#page2.tif source=PD-209053-US Assignment#page3.tif source=PD-209053-US Assignment#page4.tif source=PD-209053-US Assignment#page5.tif source=PD-209053-US Assignment#page6.tif	



THE DIRECTV GROUP

ASSIGNMENT

PD-209053

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ASSIGNMENT

WHEREAS, We, RAYNOLD M. KAHN, CHRISTOPHER R. ROY, STEVEN KASAKITIS, ERIN K. NELSON, CHRISTOPHER J. CABANNE, LUKE J. CROOK, GREGORY VAGNATI, NOREEN FONG and ERIC J. BENNETT, as the below named inventors of the city and state as stated below next to our names, have invented a **METHOD AND SYSTEM FOR OPERATING A MULTI-ROOM DIGITAL VIDEO RECORDING SYSTEM**, for which application for Letters Patent of the United States has been filed on December 29, 2009, as Serial No. 12/648,344.

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 me, 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; 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 me 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.

PATENT

REEL: 039498 FRAME: 0121

IN WITNESS WHEREOF, we have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RAYNOLD M. KAHN	<i>Raynold M. Kahn</i>	3-5-2010
RESIDENCE (CITY AND STATE) Los Angeles, California		

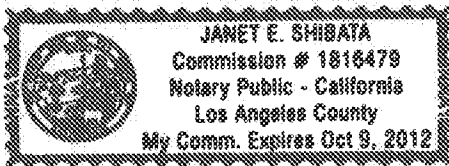
STATE OF CALIFORNIA)
) SS:
COUNTY OF LOS ANGELES)

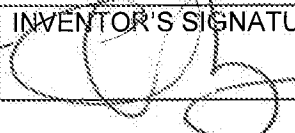
On March 5, 2010, before me, Janet E. Shibata, a Notary Public in and for said State, personally appeared RAYNOLD M. KAHN, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity, 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



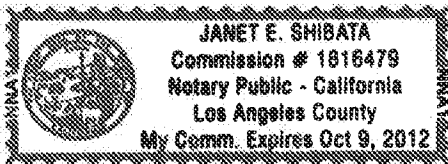
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
CHRISTOPHER R. ROY		5/21/10
RESIDENCE (CITY AND STATE) Los Angeles, California		

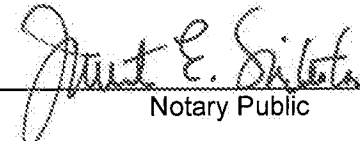
STATE OF CALIFORNIA)
) SS:
 COUNTY OF LOS ANGELES)


On May 21, 2010, before me, Janet E. Shibata, a Notary Public in and for said State, personally appeared CHRISTOPHER R. ROY, 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, 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.

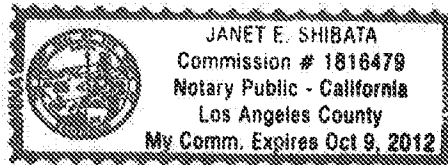
WITNESS my hand and official seal.




 Notary Public

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
STEVEN KASAKITIS		05/24/10
RESIDENCE (CITY AND STATE) Redondo Beach, California		

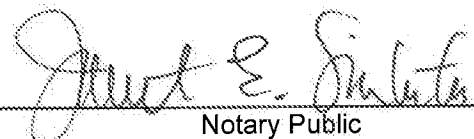
STATE OF CALIFORNIA)
) SS:
 COUNTY OF LOS ANGELES)



On May 24, 2010, before me, Janet E. Shibata, a Notary Public in and for said State, personally appeared STEVEN KASAKITIS, 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, 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

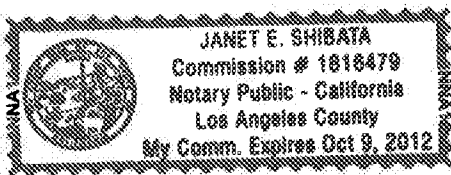
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
ERIN K. NELSON	<i>Erin K. Nelson</i>	5/21/10
RESIDENCE (CITY AND STATE) Torrance, California		

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

On May 21, 2010, before me, Janet E. Shibata, a Notary Public in and for said State, personally appeared ERIN K. NELSON, 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, 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.

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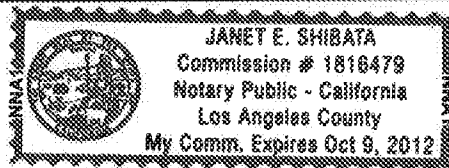
WITNESS my hand and official seal.



Janet E. Shibata
 Notary Public

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
CHRISTOPHER J. CABANNE	<i>Christopher Cabanne</i>	5/25/2010
RESIDENCE (CITY AND STATE) Woodland Hills, California		

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



On May 25, 2010, before me, Janet E. Shibata, a Notary Public in and for said State, personally appeared CHRISTOPHER J. CABANNE, 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, 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.

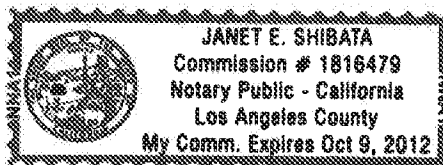
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Janet E. Shibata
 Notary Public

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
LUKE J. CROOK	<i>L J Crook</i>	05/25/2010
RESIDENCE (CITY AND STATE) San Pedro, California		

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



On May 25, 2010, before me, Janet E. Shibata, a Notary Public in and for said State, personally appeared LUKE J. CROOK, 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, 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.

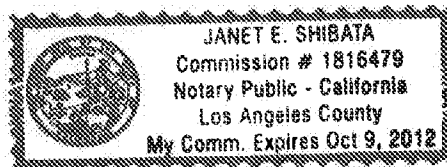
WITNESS my hand and official seal.

Janet E. Shibata

 Notary Public

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
GREGORY VAGNATI	<i>G Vagnati</i>	5/21/10
RESIDENCE (CITY AND STATE) Los Angeles, California		

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



On May 21, 2010, before me, Janet E. Shibata, a Notary Public in and for said State, personally appeared GREGORY VAGNATI, 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, 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

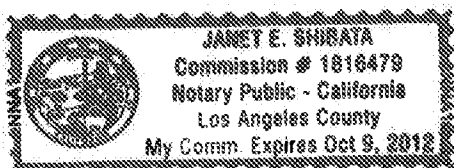
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
NOREEN FONG	<i>Noreen Fong</i>	5/24/10
RESIDENCE (CITY AND STATE) Cerritos, California		

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

On May 24, 2010, before me, Janet E. Shibata, a Notary Public in and for said State, personally appeared NOREEN FONG, 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, 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.

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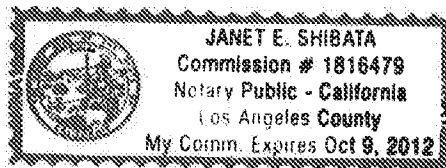
WITNESS my hand and official seal.



Janet E. Shibata
 Notary Public

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
ERIC J. BENNETT	<i>Eric Bennett</i>	5/21/2010
RESIDENCE (CITY AND STATE) Los Angeles, California		

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



On May 21, 2010, before me, Janet E. Shibata, a Notary Public in and for said State, personally appeared ERIC J. BENNETT, 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, 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

PATENT