506781754 07/23/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6828571

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
WALTER F. FILBRICH	05/25/2010
RAYNOLD M. KAHN	03/05/2010
STEVEN KASAKITIS	05/24/2010
CHRISTOPHER R. ROY	05/21/2010
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
ROMULO PONTUAL	03/02/2010
ROBERT G. ARSENAULT	05/25/2010

RECEIVING PARTY DATA

Name:	THE DIRECTV GROUP, INC.
Street Address:	2260 E. IMPERIAL HWY.
City:	EL SEGUNDO
State/Country:	CALIFORNIA
Postal Code:	90245

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13921940

CORRESPONDENCE DATA

(404)541-3111 Fax Number:

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.

Phone: 4048156500

Email: landrew@kilpatricktownsend.com **Correspondent Name:** THE DIRECTV GROUP, INC. Address Line 1: 2260 E. IMPERIAL HWY.

Address Line 4: EL SEGUNDO, CALIFORNIA 90245

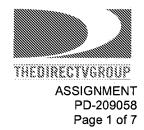
REEL: 056955 FRAME: 0696 506781754

PATENT -

ATTORNEY DOCKET NUMBER:	DTV212087	
NAME OF SUBMITTER:	LESLEY L. ANDREW	
SIGNATURE:	/Lesley L. Andrew/	
DATE SIGNED:	07/23/2021	
Total Attachments: 7		
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> PATENT REEL: 056955 FRAME: 0697



ASSIGNMENT

WHEREAS I, WALTER F. FILBRICH, RAYNOLD M. KAHN, STEVEN KASAKITIS, CHRISTOPHER R. ROY, ERIN K. NELSON, CHRISTOPHER J. CABANNE, LUKE J. CROOK, GREGORY VAGNATI, NOREEN FONG, ERIC J. BENNETT, ROMULO PONTUAL and ROBERT G. ARSENAULT, as a below named inventor of the city and state as stated below next to my name, have invented a **METHOD AND SYSTEM FOR REGISTERING A CLIENT DEVICE IN A MULTI-ROOM DIGITAL VIDEO RECORDING SYSTEM**, for which application for Letters Patent of the United States has been filed on December 28, 2009, as Serial No.12/647,895.

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 me and set forth in invention agreements between me and my employer, effective the date as stated below next to my name, and other good and valuable consideration, receipt of which is hereby acknowledged, I 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 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 me, 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.

REEL: 059255 FRANCE: 08923

IN WITNESS WHEREOF, I have executed this instrument. INVENTOR'S SIGNATURE DATE FULL NAME OF SOLE OR JOINT INVENTOR Walte T-Film. WALTER F. FILBRICH RESIDENCE (CITY AND STATE) Manhattan Beach, California ANET E SHIBATA Commission # 1816479 STATE OF CALIFORNIA Notary Public - California) SS: Los Angeles County COUNTY OF LOS ANGELES My Comm. Expires Oct 9, 2012 On May 25, 2010 , before me, Janet E. Shibata, a Notary Public in and for said State, personally appeared WALTER F. FILBRICH, 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. FULL NAME OF SOLE OR JOINT INVENTOR INVENTOR'S SIGNATURE 03/05/2010 RAYNOLD M. KAHN 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 Commission # 1816479

Notary Public - California Los Angeles County My Comm. Expires Oct 9, 2012

> PATENT REEL: 059455 FRANCE: 9824

	IN WITNESS WHEREOF, I have executed this instrun	nent.	
	FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
	STEVEN KASAKITIS	Contract Vana Vol.	05/24/10
ĺ	RESIDENCE (CITY AND STATE)		A
	Redondo Beach, California		
		No. 2. C. A. M. Marine Marine	dest
	STATE OF CALIFORNIA)	ALAMA	
) SS:	Notary Public - California	% Z Z
	COUNTY OF LOS ANGELES)	i os Angeles County	*
		My Comm. Expires Oct 9, 201	2
	On May 24, 2010 , before me, Jai	net E. Shibata, a Notary Public in and	d for said State,
	personally appeared STEVEN KASAKITIS, who prove	ed to me on the basis of satisfactory ev	idence to be the
	person(s) whose name(s) is/are subscribed to the he/she/they executed the same in his/her/their author	e within instrument and acknowledged capacity and that by his/her/their	jed to me that r signature(s) on
	the instrument the person(s), or the entity upon	behalf of which the person(s) acted	d, executed the
	instrument.	. ,	
	THE STATE OF DED HIDV and a the	Laure of the Ctate of California the	at the foregoing
	I certify under PENALTY OF PERJURY under the paragraph is true and correct.) laws of the State of Camornia tha	at the loregoing
	paragraph to trae and contest.	in the same of the	
	WITNESS my hand and official seal.	$ \mathcal{L}$ \mathcal{L}	ris gring
	JANET E. SHIBATA	Land Schull	rest i
	Commission # 1816479 Notary Public - California	Notary Public	
	7 Os Angeles County		
	S'y Joseph Expires Oct 9, 2012	The state of the s	
	FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	TDATE
			*//
	CHRISTOPHER R. ROY		12/21/10
	RESIDENCE (CITY AND STATE) Los Angeles, California	Management	* .8
	Los Prigatos, Camorna		······································
	STATE OF CALIFORNIA)		
) SS: COUNTY OF LOS ANGELES)		
	,		
	On May 21, 2010, before me, Ja		
	on, before me, Ja personally appeared CHRISTOPHER R. ROY, who pi	net E. Shibata, a Notary Public in and	
	the person(s) whose name(s) is/are subscribed to	the within instrument and acknowled	lged to me that
	he/she/they executed the same in his/her/their author	rized capacity, and that by his/her/their	r signature(s) on
	the instrument the person(s), or the entity upon	behalf of which the person(s) acted	d, executed the
	instrument.		
	I certify under PENALTY OF PERJURY under the	a laws of the State of California that	at the foregoing
	paragraph is true and correct.		
	WITNESS my hand and official seal.		. P
	WITHESS My hand and official seal.	huse bi	Luku
	Millitalitatian in the contraction of the contracti	/ Thunk to Ore	<u>Kila</u>
	Los Angeles County \$2012 \$105.8, 2012 \$105.8, 2012	Notary Public	
	Motary Public - California &	V	
	9793181 % noiseinmo)		
	ATABINE 3 T3MAL		

PATENT REEL: 059455 FRANE: 07925

IN WITNESS WHEREOF, I have exec	cuted this instrun	nent.		
FULL NAME OF SOLE OR JOINT IN		INVENTOR'S SIC	WATURE	DATE
EDINIK NELOON		[alasti.	Con	5/21/10
ERIN K. NELSON RESIDENCE (CITY AND STATE)	·····	122017	77.0	
Torrance, California		Marie		
		A CONTRACTOR OF THE PARTY OF TH	AND LE SHIBAT	A g
STATE OF CALIFORNIA)		Commission # 1816	999
COUNTY OF LOC ANGELES) SS:		Notary Public - Calife Los Angeles Coun	
COUNTY OF LOS ANGELES	,		My Comm. Expires Oct	
The second second		"All the the the the the		ndhidhidhid
			Notary Public in and	
personally appeared ERIN K. NELSO	ON, who proved	to me on the basis	s of satisfactory evi	dence to be the
person(s) whose name(s) is/are so he/she/they executed the same in his	ubscribed to the	e within instrumer	it and acknowledg	r signature(s) on
the instrument the person(s), or the	e entity upon	behalf of which the	ne person(s) acted	d, executed the
instrument.			, , , ,	
				.t the foreseine
l certify under PENALTY OF PER paragraph is true and correct.	JURY under the	e laws of the Stat	e of California tha	at the foregoing
paragraph is true and correct.				
WITNESS my hand and official seal.			0 6 1	
ladardardardardardardardardardardardardar		And	> > 1.1	v
Commission # 1816		1/10000	Notary Public	<u> </u>
Notary Public - Califo		Corr	rvotary r ubito	
Los Angeles Count My Colon Colons	y . 201 2 			
"fluthithithithichici	ahallallall.	TILL COLFORNIA OLO	NALE WILLIAM	CATE
FULL NAME OF SOLE OR JOINT IN	VENTOR	INVENTOR'S SIG	JURE	DATE
CHRISTOPHER J. CABANNE		1 / Kristiniks /	Man	5/25/2010
RESIDENCE (CITY AND STATE)				
Woodland Hills, California				
STATE OF CALIFORNIA	1			
STATE OF CALIFORNIA)) SS:			
COUNTY OF LOS ANGELES)			
0- Man 26 241	hoforo mo lo	not E Shihata a N	Notary Public in an	d for said State
On May 25, 2010	J CABANNE	who proved to me o	on the basis of satis	factory evidence
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		prof.		
WITNESS my hand and official seal.			20 N: 1	
		MAUL	2 c. Mili	Th
			Notary Public	***************************************

JANET E. SHIBATA
Commission # 1816479
Netary Public - California
Los Angeles County
My Comm. Expires Oct 9, 2012

PATIENT REEL: 059455 FRANE: 07926

IN WITNESS WHEREOF, I have executed this instrun	nent.	
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
LUKE J. CROOK	LA Iron	5/25/2010
RESIDENCE (CITY AND STATE)		in a second contract of the second contract o
San Pedro, California		
STATE OF CALIFORNIA)) SS: COUNTY OF LOS ANGELES)	JANET E. SHIBATA Commission # 1816479 Notary Public - California Los Angeles County My Comm. Expires Oct 9, 2	NAA
On	e within instrument and acknowledg ized capacity, and that by his/her/their	ed to me that signature(s) on
I certify under PENALTY OF PERJURY under the paragraph is true and correct.	e laws of the State of California tha	t the foregoing
WITNESS my hand and official seal.	Aud E Sight Notary Public	· · · · · · · · · · · · · · · · · · ·
	\mathcal{M}^{*}	
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE - /2/ /2/010
FULL NAME OF SOLE OR JOINT INVENTOR GREGORY VAGNATI	INVENTOR'S SIGNATURE	DATE 5/2/ /2010
	INVENTOR'S SIGNATURE	}
GREGORY VAGNATI RESIDENCE (CITY AND STATE)	INVENTOR'S SIGNATURE	}
GREGORY VAGNATI RESIDENCE (CITY AND STATE) Los Angeles, California	INVENTOR'S SIGNATURE	}
GREGORY VAGNATI RESIDENCE (CITY AND STATE)	INVENTOR'S SIGNATURE	}
GREGORY VAGNATI RESIDENCE (CITY AND STATE) Los Angeles, California STATE OF CALIFORNIA)	INVENTOR'S SIGNATURE	}
GREGORY VAGNATI RESIDENCE (CITY AND STATE) Los Angeles, California STATE OF CALIFORNIA) SS: COUNTY OF LOS ANGELES)	net E. Shibata, a Notary Public in and ved to me on the basis of satisfactory the within instrument and acknowled rized capacity, and that by his/her/their	d for said State, evidence to be liged to me that r signature(s) on
GREGORY VAGNATI RESIDENCE (CITY AND STATE) Los Angeles, California STATE OF CALIFORNIA) SS: COUNTY OF LOS ANGELES On	net E. Shibata, a Notary Public in and ved to me on the basis of satisfactory the within instrument and acknowled rized capacity, and that by his/her/their behalf of which the person(s) acted	d for said State, evidence to be liged to me that signature(s) on d, executed the
GREGORY VAGNATI RESIDENCE (CITY AND STATE) Los Angeles, California STATE OF CALIFORNIA)SS: COUNTY OF LOS ANGELES On	net E. Shibata, a Notary Public in and ved to me on the basis of satisfactory the within instrument and acknowled rized capacity, and that by his/her/their behalf of which the person(s) acted	d for said State, evidence to be liged to me that signature(s) on d, executed the

Minimus Market M

PATIENT REEL: 059955 FRAWE: 07927

IN WITNESS WHEREOF, I have executed this inst	trument.	
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
NOREEN FONG	Your-Jong	5/24//0
RESIDENCE (CITY AND STATE)	7	
Cerritos, California		
STATE OF CALIFORNIA)		
) SS: COUNTY OF LOS ANGELES)		
COUNTY OF EOS ANGELES		
On	the within instrument and acknow thorized capacity, and that by his/her/	evidence to be the ledged to me that their signature(s) on
I certify under PENALTY OF PERJURY under paragraph is true and correct.	the laws of the State of California	that the foregoing
WITNESS my hand and official seal JANET L. SPINATA Commission # 1818478 Notary Public - California Los Angeles County My County	Notary Public	inte
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
ERIC J. BENNETT	<u> </u>	15/41/10
RESIDENCE (CITY AND STATE) Los Angeles, California		
Los Arigeles, California		
STATE OF CALIFORNIA)) SS: COUNTY OF LOS ANGELES)		
On	oved to me on the basis of satisfactor the within instrument and acknow thorized capacity, and that by his/her.	y evidence to be the vledged to me that /their signature(s) on
I certify under PENALTY OF PERJURY under paragraph is true and correct.	the laws of the State of California	that the foregoing
WITNESS my hand and official seal.	C C 11	, and the same of

JANET E. SHIBATA

Commission # 1816479
Rotary Public - California
Los Angeles County
Say Commission (1912)

PATENT REEL: 059455 FRANCE: 07928

IN WITNESS WHEREOF, I have executed this instrument. INVENTOR'S SIGNATURE DATE FULL NAME OF SOLE OR JOINT INVENTOR 3/2/10 ROMULO PONTUAL RESIDENCE (CITY AND STATE) Hermosa Beach, California STATE OF CALIFORNIA) SS: **COUNTY OF LOS ANGELES** March 2,2010 before me, Janet E. Shibata, a Notary Public in and for said State, personally appeared ROMULO PONTUAL 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 Commission # 1816479 Notary Public - California Los Angeles County My Comm. Expires Oct 9, 2012 FULL NAME OF SOLE OR JOINT INVENTOR INVENTOR'S SIGNATURE DATE 5/25/10 ROBERT G. ARSENAULT RESIDENCE (CITY AND STATE) Redondo Beach, 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 ROBERT G. ARSENAULT, 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.

> PATIENT REEL: 029455 FRANCE: 073249

RECORDED: 03/23/20210

JANET E. SHIBATA
Commission # 1816479
Notary Public - California
Los Angeles County
My Comm. Expires Oct 9, 2012