Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Mitchell B. Wasden	11/30/2007
Vishal Arya	11/28/2007
Daniel M. Miner	11/30/2007
Darren M. St. Laurent	11/20/2007
David T. Boltz	11/28/2007

RECEIVING PARTY DATA

Name:	The DIRECTV Group, Inc.
Street Address:	2230 E. Imperial Highway
Internal Address:	P. O. Box 956
City:	El Segundo
State/Country:	CALIFORNIA
Postal Code:	90245

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11930390

CORRESPONDENCE DATA

Fax Number: (310)964-0941

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Email: janet.shibata@directv.com Correspondent Name: The DIRECTV Group, Inc.

Address Line 1: P. O. Box 956 Address Line 2: CA/LA1/A109

Address Line 4: El Segundo, CALIFORNIA 90245

ATTORNEY DOCKET NUMBER:	PD-207103
NAME OF SUBMITTER:	Janet Shibata
	PATENT

500411564 **REEL: 020194 FRAME: 0489**

Total Attachments: 4 source=PD-207103-Assignment#page1.tif source=PD-207103-Assignment#page2.tif source=PD-207103-Assignment#page3.tif source=PD-207103-Assignment#page4.tif



ASSIGNMENT

WHEREAS, MITCHELL B. WASDEN, VISHAL ARYA, DANIEL M. MINER, DARREN M. ST. LAURENT and DAVID T. BOLTZ, as below named joint inventors of the city and state as stated below next to our names, have invented a(an) METHOD AND SYSTEM FOR MONITORING AND ENCODING SIGNALS IN A LOCAL FACILITY AND COMMUNICATING THE SIGNALS BETWEEN A LOCAL COLLECTION FACILITY AND A REMOTE FACILITY USING AN IP NETWORK for which application for Letters Patent of the United States was filed on October 31, 2007 as Serial No. 11/930,390.

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'S SIGNATURE	DATE
INVENTOR	which 3. When	(1/30/07
MITCHELL B. WASDEN). Wold	י טופנו))
RESIDENCE (CITY AND STATE)		
Redondo Beach, California		
FULL NAME OF SOLE OR JOINT	INVENTOR'S SIGNATURE	DATE
INVENTOR	$P \cdot Q$	11-28-07
VISHAL ARYA	Pishal A7 -	111-28 01
RESIDENCE (CITY AND STATE)		
Los Angeles, California		
FULL NAME OF SOLE OR JOINT	INVENTOR'S SICHATURE	DATE
INVENTOR		
DANIEL M. MINER	Ke led Mills	11-30-07
RESIDENCE (CITY AND STATE)	e jagin c	111 30 07
THE SECTION (STATE OF THE STATE		
Santa Clara, California Redondo Beach,	California	CMI
FULL NAME OF SOLE OR JOINT	INVENTOR'S SIGNATURE	DATE
INVENTOR	1 / 1 X	1, 1, 1
DARREN M. ST. LAURENT	(X<)	11/20/07
RESIDENCE (CITY AND STATE)		
TREGIDENCE (OTT AND OTATE)		
Stevenson Ranch, California		
	1	
FULL NAME OF SOLE OR JOINT	INVENTOR'S SIGNATURE	DATE
INVENTOR		
DAVID T. BOLTZ	$ ////// /// \rangle$	11-28-07
DAVID T. BOLTZ		
RESIDENCE (CITY AND STATE)	()	
La Mirada, California	V	

STATE OF CALIFORNIA)		
COUNTY OF LOS ANGELES) SS:)		
on November 30, 2007 personally appeared MITCHELL B. WA satisfactory evidence to be the personacknowledged to me that he/she/they by his/her/their signature(s) on the instructed, executed the instrument.	ASDEN, □ pers n(s) whose nar executed the s	onally known to me or me(s) is/are subscribe ame in his/her/their au	proved to me on the basis of to the within instrument and thorized capacity(ies), and that
WITNESS my hand and official	seal.	St. LD	5.11
JANET E. SHIBATA COMM. # 1487989 NOTARY PUBLIC-CALIFORNIAD LOS ANGELES COUNTY O COMM. EXP. MAY 4, 2008		Notary Pub	ic hypt
STATE OF CALIFORNIA)) SS:		
COUNTY OF LOS ANGELES) 55:		
On November 28, 2007 personally appeared VISHAL ARYA, satisfactory evidence to be the personacknowledged to me that he/she/they by his/her/their signature(s) on the instructed, executed the instrument. WITNESS my hand and official NOTARY PUBLIC-CALIFORNIA LOS ANGELES COUNTY COMM. EXP. MAY 4, 2008	personally n(s) whose nare executed the srument the pers	known to me or the me(s) is/are subsoribe ame in his/her/their au	proved to me on the basis of ed to the within instrument and uthorized capacity(ies), and that on behalf of which the person(s)
STATE OF CALIFORNIA)		
COUNTY OF LOS ANGELES) SS:)		
On November 30, 2007, personally appeared DANIEL M. MINI satisfactory evidence to be the perso acknowledged to me that he/she/they by his/her/their signature(s) on the instructed, executed the instrument. WITNESS my hand and official	ER, □ personand personand personand personand the personand the personand	nlly known to me or the me(s) is/are subscribe ame in his/her/their at	ed to the within instrument and uthorized capacity(ies), and that
JANET E. SHIBATA COMM. #1487989 NOTARY PUBLIC-CALIFORNIAO LOS ANGELES COUNTY () COMM. EXP. MAY 4, 2008		Notary Pub	S- Shipty

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

On November 20, 2007, before me, Janet E. Shibata, a Notary Public in and for said State, personally appeared DARREN M. ST. LAURENT, personally known to me or 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.

WITNESS my hand and official seal.



Notary Public

STATE OF CALIFORNIA

COUNTY OF LOS ANGELES

On November 28,2067, before me, Janet E. Shibata, a Notary Public in and for said State, personally appeared DAVID T. BOLTZ, personally known to me or 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.

) SS:

WITNESS my hand and official seal.

JANET E. SHIBATA COMM. # 1487989 NOTARY PUBLIC-CALIFORNIAD LOS ANGELES COUNTY OCOMM. EXP. MAY 4, 2008

Notary Public

PATENT REEL: 020194 FRAME: 0494

RECORDED: 12/04/2007