

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>David Eric Shanks</td><td>11/19/2008</td></tr><tr><td>Matthew J. Thompson</td><td>11/19/2008</td></tr><tr><td>Mark A. Shurgot</td><td>11/19/2008</td></tr><tr><td>David E. Feldstein</td><td>11/19/2008</td></tr><tr><td>Edgar C. Camacho</td><td>11/19/2008</td></tr><tr><td>Craig Le</td><td>11/19/2008</td></tr></tbody></table>	Name	Execution Date	David Eric Shanks	11/19/2008	Matthew J. Thompson	11/19/2008	Mark A. Shurgot	11/19/2008	David E. Feldstein	11/19/2008	Edgar C. Camacho	11/19/2008	Craig Le	11/19/2008	
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Craig Le	11/19/2008														
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															
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12098747</td></tr></tbody></table>	Property Type	Number	Application Number:	12098747											
Property Type	Number														
Application Number:	12098747														
CORRESPONDENCE DATA															
Fax Number:	(310)964-0941														
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
Email:	janet.shibata@directv.com														
Correspondent Name:	The DIRECTV Group, Inc.														
Address Line 1:	2230 E. Imperial Highway														
Address Line 2:	CA/LA1/A109														
Address Line 4:	El Segundo, CALIFORNIA 90245														
ATTORNEY DOCKET NUMBER:	PD-206035A														
NAME OF SUBMITTER:	Janet Shibata														

CH \$40.00 12098747

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PATENT
REEL: 022954 FRAME: 0369

Total Attachments: 5

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ASSIGNMENT

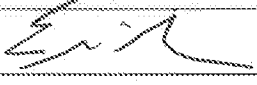
Page 1 of 5
PD-206035A

WHEREAS, I, DAVID ERIC SHANKS, MATTHEW J. THOMPSON, MARK A. SHURGOT, DAVID E. FELDSTEIN, EDGAR C. CAMACHO, CRAIG LE and ILAN TIRER, as a below named joint inventor, of the city and state as stated below next to my name, have invented a **MOSAIC CHANNEL VIDEO STREAM WITH INTERACTIVE SERVICES** for which application for Letters Patent of the United States was filed on April 7, 2008 as Serial No. 12/098,747, a continuation application of Serial No. 11/844,971 filed August 24, 2007; and which application claims benefit of U.S. provisional application with Serial No. 60/841,003 filed on August 30, 2006.

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 an invention agreement 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 representative.

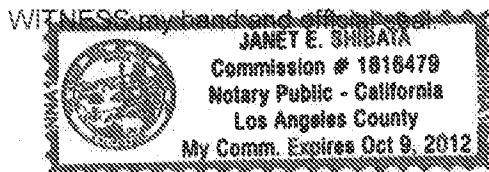
IN WITNESS WHEREOF, I have executed this instrument.

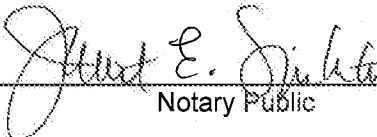
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
DAVID ERIC SHANKS		11-19-08
RESIDENT (CITY AND STATE)		
Los Angeles, California		

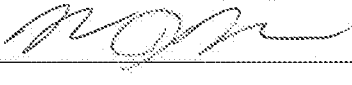
STATE OF CALIFORNIA)
) SS:
 COUNTY OF LOS ANGELES)

On November 19, 2008, before me, Janet E. Shibata, a Notary Public in and for said State, personally appeared DAVID ERIC SHANKS, 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.




 Notary Public

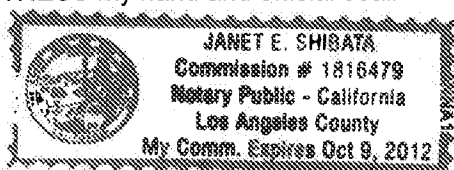
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
MATTHEW J. THOMPSON		11/19/08
RESIDENT (CITY AND STATE)		
Torrance, California		

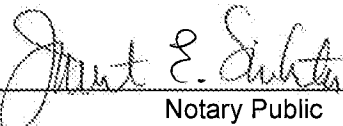
STATE OF CALIFORNIA)
) SS:
 COUNTY OF LOS ANGELES)


On November 19, 2008, before me, Janet E. Shibata, a Notary Public in and for said State, personally appeared MATTHEW J. THOMPSON, 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

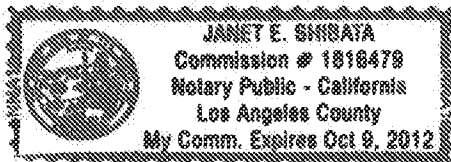
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
MARK A. SHURGOT		11/19/2008
RESIDENT (CITY AND STATE)	Los Angeles, California	

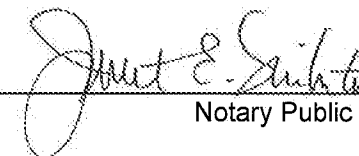
STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES) SS:

On November 19, 2008, before me, Janet E. Shibata, a Notary Public in and for said State, personally appeared MARK A. SHURGOT, 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.

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Notary Public

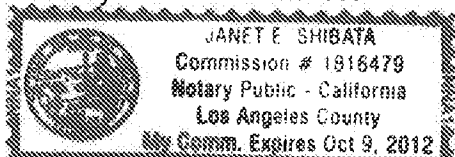
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
DAVID E. FELDSTEIN		11/19/08
RESIDENT (CITY AND STATE)	Santa Monica, California	

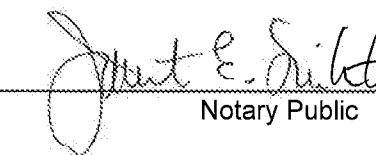
STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES) SS:

On November 19, 2008, before me, Janet E. Shibata, a Notary Public in and for said State, personally appeared DAVID E. FELDSTEIN, 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.

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WITNESS my hand and official seal.




Notary Public

PATENT

REEL: 022954 FRAME: 0373

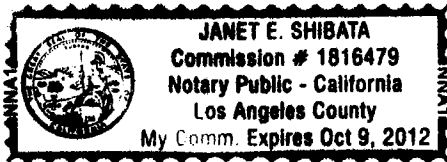
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
EDGAR C. CAMACHO		11/19/2008
RESIDENT (CITY AND STATE)		
Torrance, California		

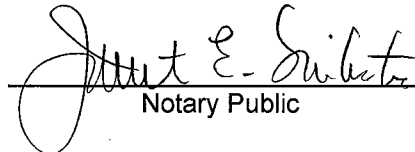
STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES) SS:

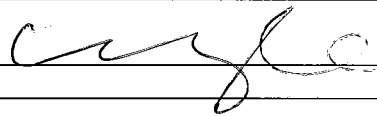
On November 19, 2008, before me, Janet E. Shibata, a Notary Public in and for said State, personally appeared EDGAR C. CAMACHO, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed 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

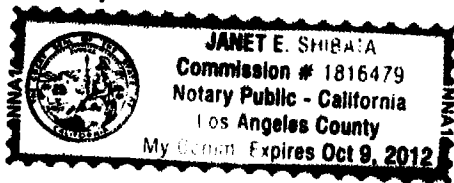
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
CRAIG LE		11-19-08
RESIDENT (CITY AND STATE)		
Temple City, California		


STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES) SS:

On November 19, 2008, before me, Janet E. Shibata, a Notary Public in and for said State, personally appeared CRAIG LE, 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.

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WITNESS my hand and official seal.




Notary Public

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
ILAN TIRER		
RESIDENT (CITY AND STATE)		
Lomita, California		

STATEMENT BY WITNESS

I, _____, whose full post office address is
(name of witness)

(address of witness)

was personally present and did see **ILAN TIRER**, who is known to me, execute the above
assignment.

Date: _____

(signature of witness)