

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Joseph T. Hayes	02/29/2008
Trang V. Luu	02/28/2008
Mark T. Takamoto	02/28/2008
Jonathan L. Tronson	02/28/2008
Gilbert Zaldivar	02/29/2008

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:	12042226

CORRESPONDENCE DATA

Fax Number: (310)964-0941

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

Phone: 310-964-0735

Email: karen.lum@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-208007

PATENT

500479208

REEL: 020602 FRAME: 0348

CH \$40.00 12042226

NAME OF SUBMITTER:

Karen L. Lum

Total Attachments: 6

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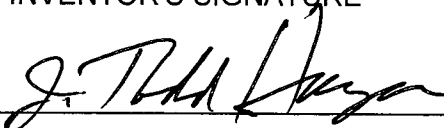
ASSIGNMENT

WHEREAS, **JOSEPH T. HAYES, TRANG V. LUU, MARK T. TAKAMOTO, JONATHAN L. TRONSON, and GILBERT ZALDIVAR**, as below named joint inventors of the city and state as stated below next to our names, have invented a (an) **METHOD FOR SWAPPING CHANNEL ASSIGNMENTS IN A BROADCAST SYSTEM** for which application for Letter Patent of the United States has been executed by me on this day.

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.

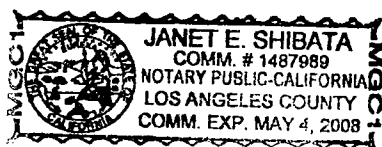
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
JOSEPH T. HAYES		2/29/08
RESIDENCE (CITY AND STATE)		
Torrance, California		

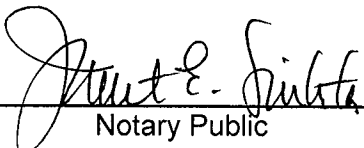
STATE OF CALIFORNIA)
) SS:
COUNTY OF LOS ANGELES)

On February 29, 2008, before me, Janet E. Shibata, a Notary Public in and for said State, personally appeared JOSEPH T. HAYES, 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

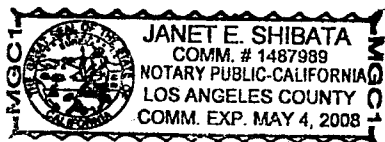
IN WITNESS WHEREOF, we have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
TRANG V. LUU	<i>Trang V. Luu</i>	2/28/08
RESIDENCE (CITY AND STATE)		
Rancho Palos Verdes, California		

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

On February 28, 2008, before me, Janet E. Shibata, a Notary Public in and for said State, personally appeared TRANG V. LUU, 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.

Janet E. Shibata

Notary Public

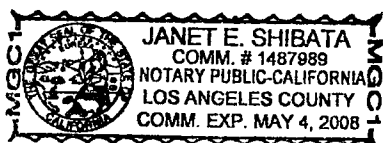
IN WITNESS WHEREOF, we have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
MARK T. TAKAMOTO	<i>Mark T. Takamoto</i>	2/28/2008
RESIDENCE (CITY AND STATE)		
Pacoima, California		

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

On February 28, 2008, before me, Janet E. Shibata, a Notary Public in and for said State, personally appeared MARK T. TAKAMOTO, 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.

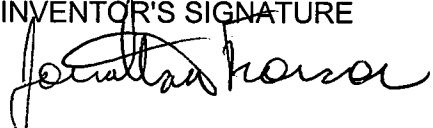


WITNESS my hand and official seal.

Janet E. Shibata

Notary Public

IN WITNESS WHEREOF, we have executed this instrument.

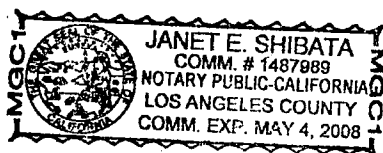
FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
JONATHAN L. TRONSON		2/28/2008
RESIDENCE (CITY AND STATE)		
Sherman Oaks, California		

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

On February 28, 2008, before me, Janet E. Shibata, a Notary Public in and for said State, personally appeared JONATHAN L. TRONSON, 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

IN WITNESS WHEREOF, we have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
GILBERT ZALDIVAR		2/29/08
RESIDENCE (CITY AND STATE)		
Rancho Santa Margarita, California		

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

On February 29, 2008, before me, Janet E. Shibata, a Notary Public in and for said State, personally appeared GILBERT ZALDIVAR, 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