

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
The DIRECTV Group, Inc.	05/12/2009
RECEIVING PARTY DATA	
Name:	DTVG LICENSING, INC.
Street Address:	2230 E. Imperial Highway
Internal Address:	CA / LA1 / A109
City:	El Segundo
State/Country:	CALIFORNIA
Postal Code:	90245
PROPERTY NUMBERS Total: 23	
Property Type	Number
Application Number:	10816385
Application Number:	10819668
Application Number:	11009333
Application Number:	11201796
Application Number:	11449912
Application Number:	11805616
Application Number:	11937997
Application Number:	11938095
Application Number:	12079377
Application Number:	12186485
Application Number:	12252216
Application Number:	12355694
Patent Number:	7161988
Patent Number:	7234098

CH \$920.00 10816385

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PATENT
REEL: 022668 FRAME: 0491

Patent Number:	7237174
Patent Number:	7296208
Patent Number:	7334181
Patent Number:	7369633
Patent Number:	7376883
Patent Number:	7403574
Patent Number:	7430396
Patent Number:	7461325
Patent Number:	7483496

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:	ASN.TDGI-DTVG LICENSING
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NAME OF SUBMITTER:	Karen L. Lum
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Total Attachments: 5

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**CONFIRMATORY
ASSIGNMENT OF PATENTS**

WHEREAS, The DIRECTV Group, Inc., a Delaware corporation having a place of business at 2230 East Imperial Highway, El Segundo, California 90245 ("Assignor"), was the owner of the patent registrations and patent applications listed on Schedule A hereto (the "Assigned Patents");

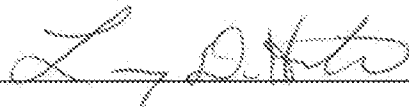
WHEREAS, by contractual agreement effective on or about August 14, 2008 Assignor assigned to DTVG LICENSING, INC., a California corporation having a place of business at 2230 East Imperial Highway, El Segundo, California 90245 ("Assignee"), certain assets including Assignor's right, title and interest in and to the Assigned Patents, as further specified below; and

WHEREAS, Assignor desires to confirm the sale, assignment, transfer and conveyance of such right, title and interest in and to the Assigned Patents, as further specified below, to Assignee.

NOW, THEREFORE, for good and valuable consideration provided by Assignee, the receipt of which is hereby acknowledged, Assignor hereby confirms the sale, assignment, transfer and conveyance to Assignee of Assignor's right, title and interest in and to the Assigned Patents, and all Letters Patent of The United States of America and any foreign jurisdictions which may be granted thereon, and any continuations, continuations-in-part, reissues, reexaminations, extensions or the like subsequently arising therefrom, all subject to certain retained rights and other exceptions as set forth in associated contractual agreements between Assignor and Assignee.

IN WITNESS WHEREOF, the undersigned have caused this instrument to be signed as of this 12th day of May 2009.

On behalf of:
The DIRECTV Group, Inc.

By: 

Name: Larry D. Hunter

Title: Executive Vice President

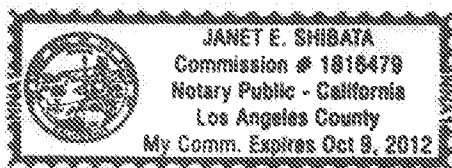
ACKNOWLEDGEMENT

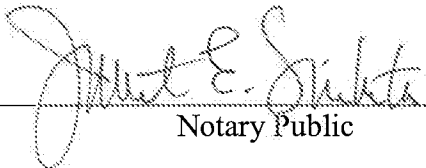
STATE OF California)
) SS:
COUNTY OF Los Angeles)

On May 12, 2009, before me, Janet E. Shibata, a Notary Public in and for said State, personally appeared LARRY D. HUNTER, 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

SCHEDULE A to CONFIRMATORY ASSIGNMENT OF PATENTS

PATENTS

Issued Patents:

Country	Patent Number	Issue Date	Title
US	7,161,988	Jan 09 2007	METHOD AND APPARATUS FOR MINIMIZING CO-CHANNEL INTERFERENCE
US	7,234,098	Jun 19 2007	METHOD AND APPARATUS FOR PROVIDING REDUCED MEMORY LOW DENSITY PARITY CHECK (LDPC) CODES
US	7,237,174	Jun 26 2007	METHOD AND SYSTEM FOR PROVIDING SHORT BLOCK LENGTH LOW DENSITY PARITY CHECK (LDPC) CODES IN SUPPORT OF BROADBAND SATELLITE APPLICATIONS
US	7,296,208	Nov 13 2007	METHOD AND SYSTEM FOR GENERATING PARALLEL DECODABLE LOW DENSITY PARITY CHECK (LDPC) CODES
US	7,334,181	Feb 19 2008	METHOD AND SYSTEM FOR PROVIDING SHORT BLOCK LENGTH LOW DENSITY PARITY CHECK (LDPC) CODES
US	7,369,633	May 06 2008	METHOD AND APPARATUS FOR PROVIDING CARRIER SYNCHRONIZATION IN DIGITAL BROADCAST AND INTERACTIVE SYSTEMS
US	7,376,883	May 20 2008	METHOD AND SYSTEM FOR PROVIDING LONG AND SHORT BLOCK LENGTH LOW DENSITY PARITY CHECK (LDPC) CODES
US	7,403,574	Jul 22 2008	SIMPLIFIED SCRAMBLING SCHEME FRO SATELLITE BROADCASTING SYSTEMS
US	7,430,396	Sep 30 2008	ENCODING LOW DENSITY PARITY CHECK (LDPC) CODES THROUGH AN LDPC DECODER
US	7,461,325	Dec 02 2008	METHOD AND SYSTEM FOR PROVIDING SHORT BLOCK LENGTH LOW DENSITY PARITY CHECK (LDPC) CODES IN SUPPORT OF BROADBAND SATELLITE APPLICATIONS
US	7,483,496	Jan 27 2009	METHOD AND SYSTEM FOR PROVIDING LONG AND SHORT BLOCK LENGTH LOW DENSITY PARITY CHECK (LDPC) CODES

SCHEDULE A to CONFIRMATORY ASSIGNMENT OF PATENT APPLICATIONS

PENDING APPLICATIONS

Patent Applications:

Country	Patent Application Number	Filing Date	Title
US	10816385	Apr 01 2004	FRAMING STRUCTURE FOR DIGITAL BROADCASTING AND INTERACTIVE SERVICES
US	10819668	Apr 07 2004	METHOD AND APPARATUS FOR PROVIDING SIGNAL ACQUISITION AND FRAME SYNCHRONIZATION IN A HIERARCHICAL MODULATION SCHEME
US	11009333	Dec 10 2004	METHOD AND APPARATUS FOR MINIMIZING CO-CHANNEL INTERFERENCE BY SCRAMBLING
US	11201796	Aug 11 2005	CODE DESIGN AND IMPLEMENTATION IMPROVEMENTS FOR LOW DENSITY PARITY CHECK CODES FOR MULTIPLE-INPUT MULTIPLE-OUTPUT CHANNELS
US	11449912	Jun 09 2006	METHOD AND APPARATUS FOR MINIMIZING CO-CHANNEL INTERFERENCE
US	11805616	May 24 2007	METHOD AND APPARATUS FOR PROVIDING REDUCED MEMORY LOW DENSITY PARITY CHECK (LDPC) CODES
US	11937997	Nov 09 2007	METHOD AND SYSTEM FOR PROVIDING SHORT BLOCK LENGTH LOW DENSITY PARITY CHECK (LDPC) CODES
US	11938095	Nov 09 2007	METHOD AND SYSTEM FOR GENERATING PARALLEL DECODABLE LOW DENSITY PARITY CHECK (LDPC) CODES
US	12079377	Mar 26 2008	METHOD AND APPARATUS FOR PROVIDING CARRIER SYNCHRONIZATION IN DIGITAL BROADCAST AND INTERACTIVE SYSTEMS
US	12186485	Aug 05 2008	ENCODING LOW DENSITY PARITY CHECK (LDPC) CODES THROUGH AN LDPC DECODER

SCHEDULE A to CONFIRMATORY ASSIGNMENT OF PATENT APPLICATIONS**PENDING APPLICATIONS**

Patent Applications:

Country	Patent Application Number	Filing Date	Title
US	12252216	Oct 15 2008	METHOD AND SYSTEM FOR PROVIDING SHORT BLOCK LENGTH LOW DENSITY PARITY CHECK (LDPC) CODES IN SUPPORT OF BROADBAND SATELLITE APPLICATIONS
US	12355694	Jan 16 2009	METHOD AND SYSTEM FOR PROVIDING LONG AND SHORT BLOCK LENGTH LOW DENSITY PARITY CHECK (LDPC) CODES