

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Dan MINNICK	10/19/2006
Michael CAVANAUGH	10/19/2006
Mark TEMPLEMAN	10/19/2006
John D. HAMRICK Jr.	10/19/2006
Jay P. CARLSON	10/19/2006
Yunfeng YANG	10/21/2006
Manuel NOVOA III	10/19/2006
Rui DING	10/19/2006
Seth BYERLEY	10/19/2006

RECEIVING PARTY DATA

Name:	EchoStar Technologies Corporation
Street Address:	90 Inverness Terrace East
City:	Englewood
State/Country:	COLORADO
Postal Code:	80112

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11512583

CORRESPONDENCE DATA

Fax Number: (415)268-7522

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

Phone: 415-268-6373

Email: lkjellen@mofo.com

Correspondent Name: Peter J. Yim

Address Line 1: Morrison & Foerster LLP

Address Line 2: 415 Market Street

PATENT

500179199

REEL: 018518 FRAME: 0702

CH \$40.00 11512583

Address Line 4: San Francisco, CALIFORNIA 94105

ATTORNEY DOCKET NUMBER:

45403-20002.00

NAME OF SUBMITTER:

Peter J. Yim

Total Attachments: 7

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ASSIGNMENT JOINT

THIS ASSIGNMENT, by Dan MINNICK, Michael CAVANAUGH, Mark TEMPLEMAN, John D. HAMRICK, Jr., Jay P. CARLSON, Yunfeng YANG, Manuel NOVOA III, Rui DING, and Seth BYERLEY, (hereinafter referred to as the assignors), residing at 10442 S Lions Path, Littleton, CO 80124; 11985 East Ida Circle, Englewood, CO 80111; 17045 E. Carr Ave, Parker, CO 80134; 7428 S. Krameria St., Centennial, CO 80112; Englewood, CO 80112; 20453 East Layton Ave, Aurora, CO, 80015; 10193 Highland Meadow Loop, Apt. 28107, Parker, CO 80134; 7494 South Memphis Street, Aurora, CO 80016; and 21311 White Ash Court, Parker, CO 80138, respectively, witnesseth:

WHEREAS, said assignors have invented certain new and useful improvements in METHOD AND APPARATUS FOR RECEIVING, STORING, AND PRESENTING MULTIMEDIA PROGRAMMING WITHOUT INDEXING PRIOR TO STORAGE, set forth in an application for Letters Patent of the United States, bearing Serial No. 11/512,583 and filed on August 29, 2006; and

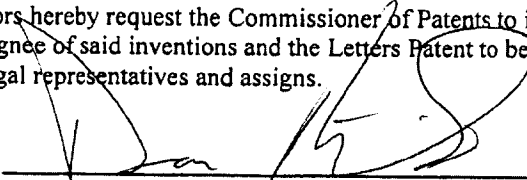
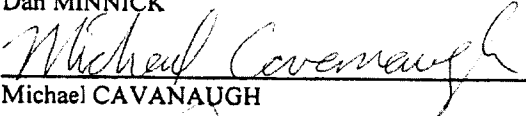

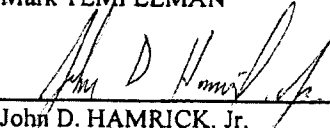
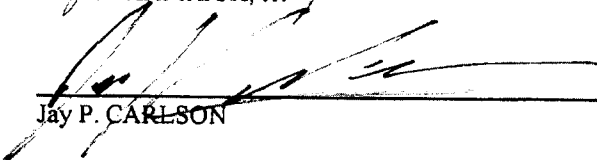


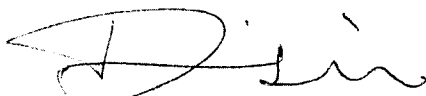
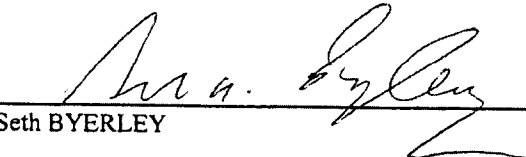
WHEREAS, EchoStar Technologies Corporation, a corporation duly organized under and pursuant to the laws of Texas and having its principal place of business at 90 Inverness Terrace East, Englewood, CO 80112 (hereinafter referred to as the assignee) is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, said assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto said assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and the application for Letters Patent above-mentioned, and that the same are unencumbered and that said assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use of said assignee, its successors, legal representatives and assigns.

<u>10/19/06</u> Date	<u></u> Dan MINNICK
<u>10/19/06</u> Date	<u></u> Michael CAVANAUGH
<u>10/19/06</u> Date	<u></u> Mark TEMPLEMAN
<u>10/19/06</u> Date	<u></u> John D. HAMRICK, Jr.
<u>10/19/06</u> Date	<u></u> Jay P. CARLSON
<u>10/21/06</u> Date	<u></u> Yunfeng YANG
<u>10/19/06</u> Date	<u></u> Manuel NOVOA III
<u>10/19/06</u> Date	<u></u> Rui DING
<u>10/19/06</u> Date	<u></u> Seth BYERLEY

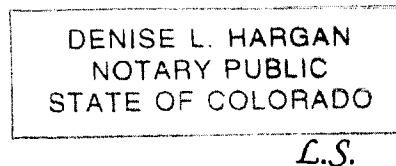
ACKNOWLEDGEMENT

STATE OF Colorado)
COUNTY OF Grand) ss.

On 10/19/2006, before me, Denise Hargan, the undersigned, a Notary Public in and for said State, personally appeared Dan MINNICK, 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.

Denise L. Hargan
Notary Public
My Commission Expires 12/7/04



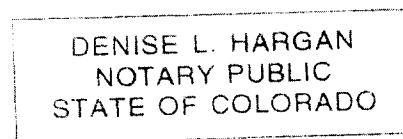
ACKNOWLEDGEMENT

STATE OF Colorado)
COUNTY OF Grand) ss.

On 10/19/06, before me, Denise Hargan, the undersigned, a Notary Public in and for said State, personally appeared Michael CAVANAUGH, 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.

Denise L. Hargan
Notary Public
My Commission Expires 12/7/04



ACKNOWLEDGEMENT

STATE OF Colorado)
COUNTY OF Arapahoe) ss.

On 10/19/06, before me, Denise L. Hargan, the undersigned, a Notary Public in and for said State, personally appeared Mark TEMPLEMAN, 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.

Denise L. Hargan
Notary Public

DENISE L. HARGAN
NOTARY PUBLIC
STATE OF COLORADO

L.S.

My Commission Expires 10/9/06

ACKNOWLEDGEMENT

STATE OF Colorado)
COUNTY OF Arapahoe) ss.

On 10/19/06, before me, Denise L. Hargan, the undersigned, a Notary Public in and for said State, personally appeared John D. HAMRICK, Jr., 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.

Denise L. Hargan
Notary Public

DENISE L. HARGAN
NOTARY PUBLIC
STATE OF COLORADO

L.S.

My Commission Expires 10/9/06

ACKNOWLEDGEMENT

STATE OF COLORADO)
COUNTY OF ARAPAHOE) ss.

On 10/19/06, before me, DENISE L. HARGAN, the undersigned, a Notary Public in and for said State, personally appeared Jay P. CARLSON, 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.

DENISE L. HARGAN
NOTARY PUBLIC
STATE OF COLORADO

Denise L. Hargan
Notary Public
My Commission Expires: 12/09/2006

L.S.

ACKNOWLEDGEMENT

STATE OF COLORADO)
COUNTY OF ARAPAHOE) ss.

On 10/25/06, before me, Denise L. Hargan, the undersigned, a Notary Public in and for said State, personally appeared Yunfeng YANG, 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.

DENISE L. HARGAN
NOTARY PUBLIC
STATE OF COLORADO

Denise L. Hargan
Notary Public
My Commission Expires: 12/09/2006

L.S.

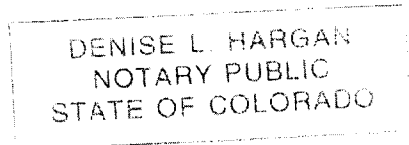
ACKNOWLEDGEMENT

STATE OF Colorado)
COUNTY OF Windsor) ss.

On 10/19/06, before me, Denise L. Hargan, the undersigned, a Notary Public in and for said State, personally appeared Manuel NOVOA III, 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.

Denise L. Hargan
Notary Public



L.S.

My Commission Expires 12/9/06

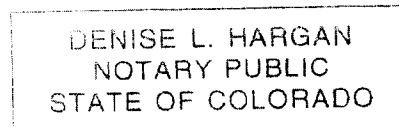
ACKNOWLEDGEMENT

STATE OF Colorado)
COUNTY OF Windsor) ss.

On 10/19/2006, before me, Denise Hargan, the undersigned, a Notary Public in and for said State, personally appeared Rui DING, 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.

Denise L. Hargan
Notary Public



L.S.

My Commission Expires 12/9/06

ACKNOWLEDGEMENT

STATE OF Colorado)

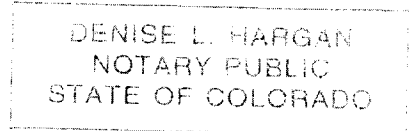
COUNTY OF Paraguan)

ss.

Denise L. Hargan

55 On 10/19/06, before me, *Seth Byerley*, the undersigned, a Notary Public in and for said State, personally appeared Seth BYERLEY, 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.



Denise L. Hargan
Notary Public

L.S.

My Commission Expires 10/19/14