

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4300574

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
WILLIAM VOLKMAN	02/27/2017
MI CHEN	11/04/2016
DANNY J. MINNICK	02/24/2017
JEAN MCAULIFFE	02/27/2017
RECEIVING PARTY DATA	
Name:	ECHOSTAR TECHNOLOGIES L.L.C.
Street Address:	100 INVERNESS TERRACE EAST
City:	ENGLEWOOD
State/Country:	COLORADO
Postal Code:	80112
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15243639
CORRESPONDENCE DATA	
Fax Number:	(303)571-4321
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	303-571-4000
Email:	kfrancour@kilpatricktownsend.com
Correspondent Name:	KILPATRICK TOWNSEND & STOCKTON LLP
Address Line 1:	1100 PEACHTREE STREET
Address Line 2:	SUITE 2800
Address Line 4:	ATLANTA, GEORGIA 30309
ATTORNEY DOCKET NUMBER:	P2015-06-21.1 (1013920)
NAME OF SUBMITTER:	KATIE B. FRANCOUR
SIGNATURE:	/Katie B. Francour/
DATE SIGNED:	03/02/2017
Total Attachments: 6	
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ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT

WHEREAS, William Volkmann, Mi Chen, Danny J. Minnick, and Jean McAuliffe (hereinafter, singularly and collectively "Assignor") have jointly invented and/or discovered certain new and useful invention, process, machine, manufacture, or composition of matter, or any new and useful improvement in an invention as described in an application for Letters Patent entitled "SYSTEMS AND METHODS FOR SEARCH AND CATEGORIZATION" filed in and/or with the United States Patent and Trademark Office on August 22, 2016, and which has been assigned Application Serial Number 15/243,639 and which is further identified by the EchoStar Docket No. set forth above (hereinafter, the "Invention"); and

WHEREAS, EchoStar Technologies LLC, a limited liability company organized and existing under the laws of the State of Texas, United States of America and having a principal place of business of 100 Inverness Terrace East, Englewood, Colorado 80112 (hereinafter, the "Assignee") desires to acquire all rights, title and interest in and to the Invention, including, but not limited to, all rights, title and interest in and to past, present and future damages, injunctive relief and to any and all other additional rights, title, interest, relief and/or remedies granted by any legislative, judicial, quasi-judicial, administrative or other body, or otherwise; and

WHEREAS, Assignor, to the extent they own any right, title and interest in and to the Invention are desirous of assigning any and all such rights, title and/or interest to Assignee.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby sells, assigns, transfers and sets over unto Assignee and its legal representatives, successor and assigns, the entire right, title and interest, including any all rights in and/or to past, present and future damages, injunctive relief and/or any other remedy and relief granted by a legislative, judicial, quasi-judicial or administrative body, in and to said Invention, said application, for any and all non-provisional, national, international, foreign, and regional applications corresponding and/or claiming priority thereto, any divisions, continuations, continuation-in-parts, reissues, reexaminations, renewals, and extensions thereof, and the Letters Patent, both foreign and domestic, that may or shall issue thereon, and does request the Commissioner of Patents to issue said Letters Patent to the Assignee, consistent with the terms of this agreement.

Assignor hereby authorizes Assignee to insert in this instrument the filing date and Application Serial Number in the above fields if not already present at the time of execution of this instrument.

Assignor hereby declares that he/she is an original, first and joint inventor of the Invention.

UPON SAID CONSIDERATION, Assignor hereby covenants and agrees with Assignee that they will not execute any writing or do any act whatsoever conflicting with these presents, and agrees that, when requested, he/she will, without charge to Assignee but at its expense, execute such additional assignments, declarations and other writings and do such additional acts as said Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, renewal, reissued or extended Letters Patent of the United States, or of any and all foreign countries, on said invention, and in enforcing any rights or chooses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of both parties.

Assignor agrees that he/she will communicate to Assignee or its representatives any facts known to Assignor respecting said inventions within a reasonable time of discovering or coming into possession of the same.

Assignor authorizes and empowers Assignee, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in Assignor's name, in any and all countries to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection

of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

Assignor hereby consent that a copy of this Assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of Assignee or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

Assignor covenants with Assignee, its successors, assigns, legal representatives, and nominees, that to the best of Assignor's knowledge the right, title and interest herein conveyed are free and clear of any encumbrance, and that Assignor has the full right to convey the same as herein expressed.

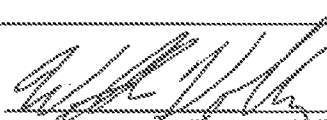
This Agreement and Assignment supersedes all other assignments, agreements and addendums related to the above-identified application.

After this Assignment has been recorded, please return it to:

Attn: Max S. Gratton
Legal Department
EchoStar Technologies LLC
100 Inverness Terrace East
Englewood, CO 80112

JOINT

Inventor: William Volkman
(Name)


(Signature in Full)

Citizenship: U.S.

Post Office Address: 11421 Uptown Ave #314, Broomfield, CO 80021

Residence: 11421 Uptown Ave #314, Broomfield, CO 80021

On this _____ day of _____, 2017, before me a notary public in and for the county of _____ in the State of _____, appeared William Volkman, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he signed, seals and delivered the same instrument as a free and voluntary act for the use and purposes therein set forth.

My Commission Expires: _____
Notary Public

(Seal)

JOINT

Inventor: Mi Chen
(Name)

(Signature in Full)

Citizenship: U.S.

Post Office Address: 2867 S. Xanadu Way, Aurora, CO 80014

Residence: 2867 S. Xanadu Way, Aurora, CO 80014

On this _____ day of _____, 2016, before me a notary public in and for the county of _____ in the State of _____, appeared Mi Chen, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he signed, seals and delivered the same instrument as a free and voluntary act for the use and purposes therein set forth.

My Commission Expires: _____
Notary Public

(Seal)

JOINTInventor: William Volkman
(Name)

(Signature in Full)

Citizenship: U.S.

Post Office Address: 11421 Uptown Ave #314, Broomfield, CO 80021

Residence: 11421 Uptown Ave #314, Broomfield, CO 80021

On this _____ day of _____, 2016, before me a notary public in and for the county of _____ in the State of _____, appeared **William Volkman**, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he signed, sealed and delivered the same instrument as a free and voluntary act for the use and purposes therein set forth.

My Commission Expires: _____
Notary Public

(Seal)

JOINTInventor: Mi Chen
(Name)

(Signature in Full)

Citizenship: U.S.

Post Office Address: 2867 S. Xanadu Way, Aurora, CO 80014

Residence: 2867 S. Xanadu Way, Aurora, CO 80014

On this 4th day of November, 2016, before me a notary public in and for the county of _____ in the State of _____, appeared **Mi Chen**, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he signed, sealed and delivered the same instrument as a free and voluntary act for the use and purposes therein set forth.

My Commission Expires: 9-26-2019
Notary Public

(Seal)

RITA M BARTOLO
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 19914008535
MY COMMISSION EXPIRES SEPTEMBER 26, 2019

JOINT

Inventor: Danny J. Minnick
(Name)

(Signature in Full)

Citizenship: U.S.

Post Office Address: 801 N. Faver Drive, Castle Rock, CO 80109

Residence: 801 N. Faver Drive, Castle Rock, CO 80109

On this 24th day of February, 2017, before me a notary public in and for the county of Orange in the State of Colorado, appeared Danny J. Minnick, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he signed, sealed and delivered the same instrument as a free and voluntary act for the use and purposes therein set forth.

Anthony Medina
My Commission Expires: 12/10/17
Notary Public

ANTHONY MEDINA
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20054048173
MY COMMISSION EXPIRES DECEMBER 10, 2017

(Seal)

JOINT

Inventor: Jean McAuliffe
(Name)

(Signature in Full)

Citizenship: U.S.

Post Office Address: 2960 Lafayette Dr., Boulder, CO 80305

Residence: 2960 Lafayette Dr., Boulder, CO 80305

On this _____ day of _____, 2017, before me a notary public in and for the county of _____ in the State of _____, appeared Jean McAuliffe, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he signed, sealed and delivered the same instrument as a free and voluntary act for the use and purposes therein set forth.

My Commission Expires: _____
Notary Public

(Seal)

JOINT

Inventor: Danny J. Minnick _____
 (Name) (Signature in Full)

Citizenship: U.S.

Post Office Address: 801 N. Faver Drive, Castle Rock, CO 80109

Residence: 801 N. Faver Drive, Castle Rock, CO 80109

On this _____ day of _____, 2017, before me a notary public in and for the county of _____ in the State of _____, appeared Danny J. Minnick, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he signed, seals and delivered the same instrument as a free and voluntary act for the use and purposes therein set forth.

My Commission Expires: _____ (Seal)
 Notary Public

JOINT

Inventor: Jean McAuliffe _____
 (Name) (Signature in Full)

Citizenship: U.S.

Post Office Address: 2960 Lafayette Dr., Boulder, CO 80305

Residence: 2960 Lafayette Dr., Boulder, CO 80305

On this _____ day of _____, 2017, before me a notary public in and for the county of _____ in the State of _____, appeared Jean McAuliffe, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he signed, seals and delivered the same instrument as a free and voluntary act for the use and purposes therein set forth.

My Commission Expires: _____ (Seal)
 Notary Public

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PATENT**RECORDED: 03/02/2017****REEL: 041446 FRAME: 0345**