

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5479093

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SVITLANA TRYGUBOVA	01/06/2016
MORGAN KIRBY	01/06/2016
RECEIVING PARTY DATA	
Name:	DISH TECHNOLOGIES L.L.C.
Street Address:	9601 S. MERIDIAN BLVD.
City:	ENGLEWOOD
State/Country:	COLORADO
Postal Code:	80112
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16386065
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:	kheil@kilpatricktownsend.com
Correspondent Name:	KILPATRICK TOWNSEND & STOCKTON LLP
Address Line 1:	1100 PEACHTREE STREET, SUITE 2800
Address Line 2:	MAILSTOP: IP DOCKETING-22
Address Line 4:	ATLANTA, GEORGIA 30309
ATTORNEY DOCKET NUMBER:	P2015-09-19.1 (1124336)
NAME OF SUBMITTER:	KRISTIN M. HEIL
SIGNATURE:	/Kristin M. Heil/
DATE SIGNED:	04/17/2019
Total Attachments: 10	
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ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT

WHEREAS, Svitlana Trygubova and Morgan Kirby (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 "SELF-ADJUSTABLE HEAT SPREADER SYSTEM FOR SET-TOP BOX ASSEMBLIES" filed in and/or with the United States Patent and Trademark Office on December 21, 2015, and which has been assigned Application Serial Number 14,986,065 and which is further identified by the EchoStar Docket No. set forth above (hereinafter, the "Invention"); and

WHEREAS, EchoStar Technologies L.L.C., 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: Svitlana Trygubova
(Name)

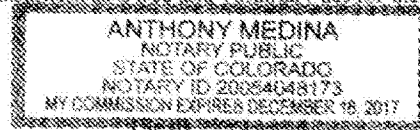
[Signature]
(Signature in Full)

Citizenship: U.S.

Post Office Address: 602 South Xenon Ct. Lakewood, CO 80228

Residence: 602 South Xenon Ct. Lakewood, CO 80228

On this 16th day of January, 2016, before me a notary public in and for the county of Drapesh in the State of Colorado, appeared Svitlana Trygubova, 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.



[Signature]
My Commission Expires: 12/18/17
Notary Public

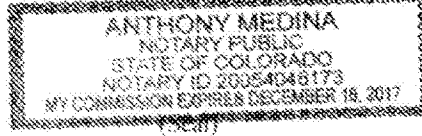
JOINTInventor: Morgan Kirby
(Name)

(Signature in Full)

Citizenship: U.S.Post Office Address: PO Box 1173 Palmer Lake, CO 80133Residence: 365 Suncrest Road, Palmer Lake, CO 80133

On this 6th day of January, 2016, before me a notary public in and for the county of Arapahoe in the State of Colorado, appeared Morgan Kirby, 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.

Anthony Medina
My Commission Expires: 12/16/17
Notary Public



OFFICE OF THE SECRETARY OF STATE
OF THE STATE OF COLORADO

CERTIFICATE OF DOCUMENT FILED

I, Wayne W. Williams, as the Secretary of State of the State of Colorado, hereby certify that, according to the records of this office, the attached document is a true and complete copy of the

Combined Statement of Conversion

with Document # 20181106099 of
DISH Technologies L.L.C.

Colorado Limited Liability Company

(Entity ID # 19881017900)

consisting of 5 pages.

This certificate reflects facts established or disclosed by documents delivered to this office on paper through 05/11/2018 that have been posted, and by documents delivered to this office electronically through 05/14/2018@ 15:04:18.

I have affixed hereto the Great Seal of the State of Colorado and duly generated, executed, and issued this official certificate at Denver, Colorado on 05/14/2018 @ 15:04:18 in accordance with applicable law. This certificate is assigned Confirmation Number 10899283



A handwritten signature in cursive script, reading "Wayne W. Williams".

Secretary of State of the State of Colorado

*****End of Certificate*****
Notice: A certificate issued electronically from the Colorado Secretary of State's Web site is fully and immediately valid and effective. However, as an option, the issuance and validity of a certificate obtained electronically may be established by visiting the Validate a Certificate page of the Secretary of State's Web site, <http://www.sos.state.co.us/biz/CertificateSearchCriteria.do> entering the certificate's confirmation number displayed on the certificate, and following the instructions displayed. Confirming the issuance of a certificate is merely optional and is not necessary to the valid and effective issuance of a certificate. For more information, visit our Web site, <http://www.sos.state.co.us/> click "Businesses, trademarks, trade names" and select "Frequently Asked Questions."



Document must be filed electronically.
Paper documents are not accepted.
Fees & forms are subject to change.
For more information or to print copies
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Colorado Secretary of State
Date and Time: 02/02/2018 02:14 PM
ID Number: 19881017900
Document number: 20181106099
Amount Paid: \$100.00

ABOVE SPACE FOR OFFICE USE ONLY

Statement of Conversion

filed pursuant to § 7-90-201.7 (3) of the Colorado Revised Statutes (C.R.S.)

1. For the converting entity, its ID number (if applicable), entity name or true name, form of entity, jurisdiction under the law of which it is formed, and principal address are

ID number	<u>19881017900</u> <i>(Colorado Secretary of State ID number)</i>		
Entity name or true name	<u>EchoStar Technologies L.L.C.</u>		
Form of entity	<u>Foreign Limited Liability Company</u>		
Jurisdiction	<u>Texas</u>		
Street address	<u>9601 S. Meridian Blvd.</u> <i>(Street number and name)</i>		
	<u>Englewood</u> <i>(City)</i>	<u>CO</u> <i>(State)</i>	<u>80112</u> <i>(ZIP/Postal Code)</i>
	<u></u> <i>(Province – if applicable)</i>	<u>United States</u> <i>(Country)</i>	
Mailing address (leave blank if same as street address)	<u>PO BOX 6655</u> <i>(Street number and name or Post Office Box information)</i>		
	<u>Englewood</u> <i>(City)</i>	<u>CO</u> <i>(State)</i>	<u>80112</u> <i>(ZIP/Postal Code)</i>
	<u></u> <i>(Province – if applicable)</i>	<u>United States</u> <i>(Country)</i>	

2. The entity name of the resulting entity is DISH Technologies L.L.C.
(Caution: The use of certain terms or abbreviations are restricted by law. Read instructions for more information.)
3. The converting entity has been converted into the resulting entity pursuant to section 7-90-201.7, C.R.S.
4. *(If applicable, adopt the following statement by marking the box and include an attachment.)*
☐ This document contains additional information as provided by law.
5. *(Caution: Leave blank if the document does not have a delayed effective date. Stating a delayed effective date has significant legal consequences. Read instructions before entering a date.)*

(If the following statement applies, adopt the statement by entering a date and, if applicable, time using the required format.)

The delayed effective date and, if applicable, time of this document are _____
(mm/dd/yyyy hour:minute am/pm)

Notice:

Causing this document to be delivered to the Secretary of State for filing shall constitute the affirmation or acknowledgment of each individual causing such delivery, under penalties of perjury, that such document is such individual's act and deed, or that such individual in good faith believes such document is the act and deed of the person on whose behalf such individual is causing such document to be delivered for filing, taken in conformity with the requirements of part 3 of article 90 of title 7, C.R.S. and, if applicable, the constituent documents and the organic statutes, and that such individual in good faith believes the facts stated in such document are true and such document complies with the requirements of that Part, the constituent documents, and the organic statutes.

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6. The true name and mailing address of the individual causing this document to be delivered for filing are

Conroy	Daniel	W.	
<i>(Last)</i>	<i>(First)</i>	<i>(Middle)</i>	<i>(Suffix)</i>
9601 S. Meridian Blvd.			
<i>(Street number and name or Post Office Box information)</i>			
Englweood		CO	80112
<i>(City)</i>	<i>(State)</i>	<i>(ZIP/Postal Code)</i>	
United States			
<i>(Province – if applicable)</i>		<i>(Country)</i>	

(If applicable, adopt the following statement by marking the box and include an attachment.)

- ☐ This document contains the true name and mailing address of one or more additional individuals causing the document to be delivered for filing.

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Paper documents are not accepted.
Fees & forms are subject to change.
For more information or to print copies
of filed documents, visit www.sos.state.co.us.

Colorado Secretary of State
Date and Time: 02/02/2018 02:14 PM
ID Number: 19881017900
Document number: 20181106099
Amount Paid: \$100.00

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Articles of Organization

filed pursuant to § 7-80-203 and § 7-80-204 of the Colorado Revised Statutes (C.R.S.)

1. The domestic entity name of the limited liability company is

DISH Technologies L.L.C.

(The name of a limited liability company must contain the term or abbreviation "limited liability company", "ltd. liability company", "limited liability co.", "ltd. liability co.", "limited", "l.l.c.", "llc", or "ltd.". See §7-90-601, C.R.S.)

(Caution: The use of certain terms or abbreviations are restricted by law. Read instructions for more information.)

2. The principal office address of the limited liability company's initial principal office is

Street address

9601 S. Meridian Blvd.

(Street number and name)

Englewood

(City)

CO

(State)

80112

(ZIP/Postal Code)

United States

(Country)

(Province – if applicable)

Mailing address

(leave blank if same as street address)

PO BOX 6655

(Street number and name or Post Office Box information)

Englewood

(City)

CO

(State)

80112

(ZIP/Postal Code)

United States

(Country)

(Province – if applicable)

3. The registered agent name and registered agent address of the limited liability company's initial registered agent are

Name

(if an individual)

Messner

(Last)

Timothy

(First)

A.

(Middle)

(Suffix)

or

(if an entity)

(Caution: Do not provide both an individual and an entity name.)

Street address

9601 S. Meridian Blvd.

(Street number and name)

Englewood

(City)

CO

(State)

80112

(ZIP Code)

Mailing address

(leave blank if same as street address)

(Street number and name or Post Office Box information)

(City) CO (State) _____
(ZIP Code)

(The following statement is adopted by marking the box.)

☒ The person appointed as registered agent has consented to being so appointed.

4. The true name and mailing address of the person forming the limited liability company are

Name

(if an individual)

(Last) (First) (Middle) (Suffix)

or

(if an entity)

EchoStar Technologies Holding Corporation

(Caution: Do not provide both an individual and an entity name.)

Mailing address

9601 S. Meridian Blvd.

(Street number and name or Post Office Box information)

Englewood

(City)

CO

(State)

80112

(ZIP/Postal Code)

United States

(Country)

(Province – if applicable)

(If the following statement applies, adopt the statement by marking the box and include an attachment.)

☐ The limited liability company has one or more additional persons forming the limited liability company and the name and mailing address of each such person are stated in an attachment.

5. The management of the limited liability company is vested in

(Mark the applicable box.)

☐ one or more managers.

or

☒ the members.

6. (The following statement is adopted by marking the box.)

☒ There is at least one member of the limited liability company.

7. (If the following statement applies, adopt the statement by marking the box and include an attachment.)

☐ This document contains additional information as provided by law.

8. (Caution: Leave blank if the document does not have a delayed effective date. Stating a delayed effective date has significant legal consequences. Read instructions before entering a date.)

(If the following statement applies, adopt the statement by entering a date and, if applicable, time using the required format.)

The delayed effective date and, if applicable, time of this document is/are _____
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9. The true name and mailing address of the individual causing the document to be delivered for filing are

Conroy	Daniel	W.	
<small>(Last)</small>	<small>(First)</small>	<small>(Middle)</small>	<small>(Suffix)</small>
9601 S. Meridian Blvd.			
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Englweood		CO	80112
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United States			
<small>(Province – if applicable)</small>		<small>(Country)</small>	

(If the following statement applies, adopt the statement by marking the box and include an attachment.)

- ☐ This document contains the true name and mailing address of one or more additional individuals causing the document to be delivered for filing.

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