

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT6213878

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
RAMGOPAL MADDULURI	12/21/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SLING MEDIA LLC
<b>Street Address:</b>	1051 EAST HILLSDALE BOULEVARD
<b>City:</b>	FOSTER CITY
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94404
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16936202
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(480)385-5061
<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>	
<b>Phone:</b>	480-385-5060
<b>Email:</b>	ipdept@dish.com
<b>Correspondent Name:</b>	LKGLOBAL (DISH TECHNOLOGIES L.L.C.)
<b>Address Line 1:</b>	7010 E. COCHISE ROAD
<b>Address Line 4:</b>	SCOTTSDALE, ARIZONA 85253
<b>ATTORNEY DOCKET NUMBER:</b>	066.0492USC1
<b>NAME OF SUBMITTER:</b>	ADITYA KRISHNAN
<b>SIGNATURE:</b>	/ADITYA KRISHNAN/
<b>DATE SIGNED:</b>	07/22/2020
<b>Total Attachments: 8</b>	
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## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5103761

<b>SUBMISSION TYPE:</b>	RESUBMISSION	
<b>NATURE OF CONVEYANCE:</b>	CHANGE OF NAME	
<b>RESUBMIT DOCUMENT ID:</b>	504899217	
<b>CONVEYING PARTY DATA</b>		
<b>Name</b>		<b>Execution Date</b>
ECHOSTAR TECHNOLOGIES L.L.C.		02/02/2018
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	DISH TECHNOLOGIES L.L.C.	
<b>Street Address:</b>	9601 S. MERIDIAN BLVD.	
<b>City:</b>	ENGLEWOOD	
<b>State/Country:</b>	COLORADO	
<b>Postal Code:</b>	80112	
<b>PROPERTY NUMBERS Total: 77</b>		
<b>Property Type</b>	<b>Number</b>	
Application Number:	15856405	
Application Number:	15804635	
Application Number:	15821276	
Application Number:	15445202	
Application Number:	15445255	
Application Number:	15856812	
Application Number:	15859484	
Application Number:	15279040	
Application Number:	15379779	
Application Number:	14599911	
Application Number:	15056631	
Application Number:	15207172	
Application Number:	15414025	
Application Number:	14222245	
Application Number:	14222412	
Application Number:	15429634	
Application Number:	15355849	
Application Number:	15376155	
Application Number:	15376151	

Property Type	Number
Application Number:	15219934
Application Number:	14670851
Application Number:	14750059
Application Number:	15600334
Application Number:	15207129
Application Number:	15586135
Application Number:	14967562
Application Number:	15299691
Application Number:	15181203
Application Number:	15442018
Application Number:	15363686
Application Number:	15208188
Application Number:	15665676
Application Number:	14145025
Application Number:	14145115
Application Number:	14145375
Application Number:	13780632
Application Number:	12324487
Application Number:	13114906
Application Number:	13840503
Application Number:	13827839
Application Number:	14754541
Application Number:	14724470
Application Number:	14789032
Application Number:	14986214
Application Number:	14986539
Application Number:	15395079
Application Number:	15394355
Application Number:	15395304
Application Number:	15393548
Application Number:	13420204
Application Number:	15058518
Application Number:	15392212
Application Number:	15392223
Application Number:	15392235
Application Number:	15392241
Application Number:	12508449
Application Number:	13112841

Property Type	Number
Application Number:	12363228
Application Number:	12486617
Application Number:	12700430
Application Number:	12977948
Application Number:	13836688
Application Number:	13728204
Application Number:	13835292
Application Number:	14179953
Application Number:	14454336
Application Number:	14585549
Application Number:	14587272
Application Number:	14809605
Application Number:	14566364
Application Number:	14587597
Application Number:	14720633
Application Number:	14691347
Application Number:	14930343
Application Number:	14811658
Application Number:	15080097
Application Number:	15181657

#### CORRESPONDENCE DATA

Fax Number: (480)385-5061

*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.*

Phone: 480-385-5060

Email: docketing@LKGlobal.com

Correspondent Name: LKGLOBAL (DISH TECHNOLOGIES L.L.C.)

Address Line 1: 7010 E. COCHISE ROAD

Address Line 4: SCOTTSDALE, ARIZONA 85253

ATTORNEY DOCKET NUMBER: DISH TECH LLC NAME CHGE

NAME OF SUBMITTER: BRETT A. CARLSON

SIGNATURE: /BRETT A. CARLSON/

DATE SIGNED: 08/22/2018

#### Total Attachments: 6

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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."*

# **ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA**

WHEREAS, Alan Cruz (hereinafter, singularly and collectively "Assignor") has solely and/or have jointly (as appropriate) 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 "**METHODS AND APPARATUS FOR SIMULTANEOUSLY DISPLAYING VIDEO CONTENT FROM MULTIPLE PROGRAMMING SOURCES**" filed in and/or with the United States Patent and Trademark Office on December 30, 2016, and which has been assigned Application Serial Number 62/440,787 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 the sole inventor (if only one inventor is named herein) or an original, first and joint inventor (if plural inventors are named herein) 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.

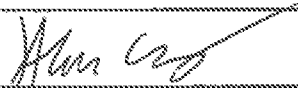
Assignor covenants with Assignee, its successors, assigns, legal representatives, and nominees, that to the best of Assignor's knowledge the right, title and interest herein conveyed are free and clear of any encumbrance, and that Assignor has the full right to convey the same as herein expressed.

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 L.L.C.  
100 Inverness Terrace East  
Englewood, CO 80112

SOLE

Inventor (1): Alan Cruz  
(Name)  
(Signature in Full)

On this 15<sup>th</sup> day of Feb, 2017, before me a notary public in and for the county of Arapahoe in the State of Colorado, appeared Alan Cruz, 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: 10/24/2020  
Notary Public

ASIA PENA  
NOTARY PUBLIC - STATE OF COLORADO  
Notary Identification #2016400506  
My Commission Expires 10/24/2020

(Seal)