506265251 09/22/2020

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JAMES DAVIS	12/09/2019
EDWARD GALBRAITH	11/26/2019
SHAILESH DESHMUKH	12/05/2019

RECEIVING PARTY DATA

Name:	ne: DISH NETWORK 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:	16593334

CORRESPONDENCE DATA

Fax Number: (206)332-7198

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: 3034542955

Email: patentprocurement@perkinscoie.com, sserrano@perkinscoie.com

Correspondent Name: PERKINS COIE LLP Address Line 1: P.O. BOX 1247

Address Line 4: SEATTLE, WASHINGTON 98111-1247

ATTORNEY DOCKET NUMBER:	120299-8019.US00
NAME OF SUBMITTER:	SHANNON SERRANO
SIGNATURE:	/Shannon Serrano/
DATE SIGNED:	09/22/2020

Total Attachments: 6

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PATENT 506265251 REEL: 053849 FRAME: 0026

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PATENT REEL: 053849 FRAME: 0027

ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT

WHEREAS, James DAVIS of 1232 South 480 West, Salem, UT 84653, Edward GALBRAITH of 2077 Autumn Fields Lane, Draper, UT 84020, and Shailesh DESHMUKH of 770 Bounty Drive, Apt. 7008, Foster City, CA 94404, (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 "UNIFIED PROGRAM LISTING OF CONTENT TRANSMITTED USING DIFFERENT DISTRIBUTION TYPES" filed in and/or with the United States Patent and Trademark Office on October 4, 2019, and which has been assigned Application Serial Number 16/593,334 and which is further identified by the Dish Docket No. set forth above (hereinafter, the "Invention"); and

WHEREAS, DISH Network L.L.C., a limited liability company organized and existing under the laws of the State of Colorado, United States of America and having a principal place of business of 9601 S. Meridian Blvd., 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 and/or an attorney appointed in said application 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

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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 consents 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
DISH Network L.L.C.
100 Inverness Terrace East
Englewood, CO 80112

JOINT		
inventor (1):	James Davis	
	Name of inventor	(Signature in Full)
	Dec 9 2019 Date Houng Davis Dess Name 19/19	(Witness Signature)

JOINT		
Inventor (2):		
	Name of inventor	(Signature in Full)
	Date	
Witness:		
Witt	ness Name	(Witness Signature)
Date	······································	
{ Zanc		
JOINT		
Inventor (3):	Shailesh Deshmukh	
	Name of inventor	(Signature in Full)
	Date	
	Long	
Witness:	`& &	Mary Co.
Witt	ness Name	(Witness Signature)
Date		

Page 3 of 4

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JOINT		
Inventor (1):		<u></u>
	Name of inventor	(Signature in Full)
	 Date	
Witness: Witu	sess Name	(Witness Signature)
Date	······	
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JOINT Inventor (2):	Edward Galbraith Name of inventor	(Signature in Full)
***************************************	/1/26/2019 Date	and the second s
Witi	awes Rose ness Name	(Vithess Signature)
Date	1/26/2019	
JOINT	:	
Inventor (3):	Shailesh Deshmukh Name of inventor	(Signature in Full)
7	Date	
Witness:	ness Name	(Witness Signature)
0 7 4 5 7	A MORAL A MORAL A SA	s as common restrictions.
Date		•

JOINT		
Inventor (1):	James Davis	
, ,,	Name of inventor	(Signature in Full)
	Dete	
	Date	
Witness:		
Wit	ness Name	(Witness Signature)
Date		
	······	
JOINT		
Inventor (2):	Edward Galbraith	
	Name of inventor	(Signature in Full)
	Date	
	40, 40	
Witness:	The same of the sa	ANZ CLASS
Wil	ness Name	(Witness Signature)
Date		
JOINT		<u> </u>
Inventor (3):	Shailesh Deshmukh	Shalles hule.
	Name of inventor	(Signature in Full)
***************************************	12/15/2019	
	Data 2011.	
	Date	
,	12	Al. Men
	DITYA KULKARNI	
Wit	ness Name	(Witness Signature)
12	05 2019.	
Date	100122	

Signed and hereby accepted on behalf of the Assignee

	ssignee: DISH Network, L.L.C. (Name) (Signature in Full)	
	tate of Colimido	
	ounty of Linguis	
	he foregoing instrument was acknowledged before me this // day of // 2019	
	Max Stephen Gratton, Director and Senior Corporate Counsel, IP of DISH Network, L.L.C., a	
- 5	olorado limited liability company, on behalf of the limited liability company.	
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