504983080 06/28/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT			
NATURE OF CONVEYANCE:	ASSIGNMENT			

CONVEYING PARTY DATA

Name	Execution Date		
JEFFREY MCSCHOOLER	06/20/2018		

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:	16022350

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: ipdept@dish.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:	066.0479US
NAME OF SUBMITTER:	BRETT A. CARLSON
SIGNATURE:	/BRETT A. CARLSON/
DATE SIGNED:	06/28/2018

Total Attachments: 3

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PATENT 504983080 REEL: 046233 FRAME: 0398

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

WHEREAS, JEFFREY MCSCHOOLER (herei	inafter, singularly and coll	lectively "Assignor")
has solely invented and/or discovered certain new	and useful invention, pro-	cess, machine.
manufacture, or composition of matter, or any nev	v and useful improvement	in an invention as
described in an application for Letters Patent entitl	led "SELECTED REPL	ACEMENT OF
DIGITAL IMAGERY PORTIONS USING AU	GMENTED REALITY	" filed in and/or with
the United States Patent and Trademark Office on	June 28, 2018	, and which
has been assigned Application Serial Number	16/022,350	and which is
further identified by the DISH Docket No. set forth	h above (hereinafter, the "	Invention"); and

WHEREAS, DISH 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 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 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

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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

Director and Senior Corporate Counsel, IP

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

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Inventor (1):	Jeffrey McSchooler		de de la companya de	ger.	ident restricted to the				
	(Name)		(Signā	fure in F	ull)	^~~~		*******	
			A AMERICAN						
On this 20th	day of <u>June</u> in the S	, 20	18, before m	ie a nota	ary pub	lic in	and for	the c	ounty
of <u>Arapahoe</u>	iff the S	tate of	Colorado			, app	cared .	JEFF	REY
MICOCHOOLE	ax, who is personally i	snown to	me to be the	same pe	rson w	vhose r	iame is	subsc	cribed
to the foregoing	g instrument, and acl	knowledg	ged that he	signed,	seals	and de	elivered	the	same
instrument as a f	ree and voluntary act i	for the us	e and purpose	es therei	n set fo	orth.			
				ANTI	HONY M TARY PL OF COL Y ID 200	SONO			
My Commission Notary Public	hon McDina Expres: 12/16/	,21	MYC	XMMSSION	Y ID 200 \$200 \$200 \$200 \$200 \$200 \$200 \$200	5404817: XECEMBEI	3 16, 2021		