503581180 11/23/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3627808

SUBMISSION TYPE:			NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT				
CONVEYING PARTY DA	ATA					
			Name		Execution Date	
BRANDON HALPER					11/20/2015	
LAWRENCE MORAN					11/20/2015	
RECEIVING PARTY DA	ТА					
			TECHNOLOGIES L.L.C.			
Street Address:	100 IN	100 INVERNESS TERRACE EAST				
City:	ENGLE	EWOC	D			
State/Country:	COLOF	RADO				
Postal Code:	80112					
PROPERTY NUMBERS	Total: 1					
Property Type		Number				
Application Number:		14948672				
Application Number:		14948	3672			
Application Number:		14948	3672			
CORRESPONDENCE D]		
CORRESPONDENCE D		(313)	528-6923]		
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CORRESPONDENCE D Fax Number: <i>Correspondence will be using a fax number, if p</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET NU	e sent to provideo	(313)! <i>o the e</i> <i>d; if th</i> 313-5 docke BEJIN 300 F SUITE DETF	528-6923 e-mail address first; if that is un pat is unsuccessful, it will be se 28-4882 et@b2iplaw.com N BIENEMAN PLC RIVER PLACE E 1650 ROIT, MICHIGAN 48207 01031-0060 MICHAEL J. MCCANDLISH			

Total Attachments: 4

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

WHEREAS, **Brandon Halper residing at 4283 S. Salida Way Unit 14, Aurora, CO 80112** and **Lawrence Moran residing at 10001 East Evans Ave Unit 73D, Denver, CO 80247** (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 "SWITCHER FOR WIRELESS DISPLAY DEVICES" filed in and/or with the United States Patent and Trademark Office on <u>November 23, 2015</u>, and which has been assigned Application Serial Number <u>14/948,672</u> 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

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necessary assistance in making application for and obtaining original, continuation, continuation-inpart, 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

JOINT	and the second se
Inventor (1): Brandon Halper	(Signature in Full)
(Name)	(Signature in Full)
On this 20th day of Tovenber . 20	15, before me a notary public in and for the county
of Operated in the State of	f Colorado, appeared BRANDON
HAIPER who is personally known to me to	be the same person whose name is subscribed to the
foregoing instrument and acknowledged that h	e signed, seals and delivered the same instrument as
a free and voluntary act for the use and purpose	s therein set forth
	ANTHONY MEDINA NOTARY PUBLIC STATE OF COLORADO
a it man	STATE OF COLLARADA NOTARY ID 200540481775 WY COMMENCE REPRES DECEMBER 18, 2017
My Commission Expires: 12/14/17	AV COMMESSION EXCITES DECIMIENT IN AND
1 * J	
Notary Public	

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JOINT	
Inventor (2): Lawrence Moran (Name)	(Signature in Full)
of <u>Arapahol</u> in the State MORAN , who is personally known to me foregoing instrument, and acknowledged th a free and voluntary act for the use and purp <u>Anthon Meduna</u> My Commission Expires: <u>10/14/17</u>	, 2015, before me a notary public in and for the county of <u>Colorado</u> , appeared LAWRENCE to be the same person whose name is subscribed to the at he signed, seals and delivered the same instrument as oses therein set forth <u>ANTHONY MEDINA</u> NOTARY DUBLIC STATE OF COLORADO NOTARY DUBLIC NOTARY DUBLIC
Notary Public	

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RECORDED: 11/23/2015

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