

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT7195983

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	ELDON TECHNOLOGY LIMITED	10/29/2014
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	ECHOSTAR UK HOLDINGS LIMITED	
<b>Street Address:</b>	BECKSIDE DESIGN CENTRE	
<b>Internal Address:</b>	MILLIENNIUM BUSINESS PARK STATION ROAD	
<b>City:</b>	STEETON KEIGHLEY	
<b>State/Country:</b>	UNITED KINGDOM	
<b>Postal Code:</b>	BD20 6QW	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	17676063
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(303)291-2400	
<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>	3032912300	
<b>Email:</b>	patentprocurement@perkinscoie.com,sserrano@perkinscoie.com	
<b>Correspondent Name:</b>	PERKINS COIE LLP	
<b>Address Line 1:</b>	P.O. BOX 1247	
<b>Address Line 4:</b>	SEATTLE, WASHINGTON 98111-1247	
<b>ATTORNEY DOCKET NUMBER:</b>	120299-8051.US01	
<b>NAME OF SUBMITTER:</b>	SHANNON SERRANO	
<b>SIGNATURE:</b>	/Shannon Serrano/	
<b>DATE SIGNED:</b>	02/25/2022	
<b>Total Attachments: 4</b>		
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## PATENT ASSIGNMENT

WHEREAS, Eldon Technology Limited, a limited liability company organized and existing under the laws of the England and Wales, and having a principal place of business of Beckside Design Centre, Millennium Business Park Station Road, Steeton, Keighley, BD20 6QW ("ASSIGNOR"), owns rights in, to and under the patent applications set forth in the attached Exhibit B (the "Properties"); and

WHEREAS, EchoStar UK Holdings Limited, a limited liability company organized under the laws of the England and Wales, and having a principal place of business of Beckside Design Centre, Millennium Business Park Station Road, Steeton, Keighley, BD20 6QW ("ASSIGNEE"), is desirous of acquiring ASSIGNOR'S entire right, title and interest in, to and under the Properties.

WHEREAS, Assignor, to the extent they own any right, title and interest in and to the Properties is desirous of assigning any and all such rights, title and/or interest to Assignee.

NOW, THEREFORE, USD \$1.00 and other good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the Assignor has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto the ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the Properties and any and all letters patent or patents in the United States of America and all foreign countries which may be granted therefore and thereon (including any divisions, continuations, continuations-in-part, reissues, reexaminations or extensions of letters patents and other related applications arising from, corresponding to and/or claiming priority to any of the Properties) and the registration thereof, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the ASSIGNEE for its own use and enjoyment and for the use and enjoyment of its successors, legal representatives and assigns, to the full end of the term or terms for which letters patent may be granted, as fully and entirely as the same would have been held and enjoyed by the ASSIGNOR had this assignment not been made, and further including all income, royalties, damages and payments for past or future infringements and misappropriations thereof, all rights to sue for past, present and future infringements or misappropriations thereof, and all rights corresponding to any of the above throughout the world and for the full term or terms of assigned Properties, including the right to claim priority to any of the patents or applications listed in the Properties or any patents or applications resulting from the listed Properties that have not yet been filed;

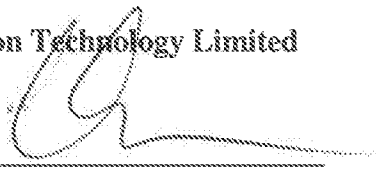
AND for the same consideration, ASSIGNOR hereby covenants and agrees to and with ASSIGNEE, its successors, legal representatives and assigns, that ASSIGNOR will encourage its employees named as inventors on one or more of the assigned Properties, to make, execute and deliver any and all other instruments in writing as may be necessary to assign the Properties to ASSIGNEE, including, but not limited to, any and all further application papers, affidavits, assignments and other documents, and that ASSIGNOR will

communicate to ASSIGNEE, its successors, legal representatives and assigns, all facts known to ASSIGNOR relating to the Properties, and that ASSIGNOR will testify in all legal proceedings and generally do all things which may be necessary or desirable to more effectually secure to and vest in ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in and to the Properties;

AND THE ASSIGNOR HEREBY authorizes and requests the Commissioner of the United States Patent and Trademark Office, and any official of any country or countries foreign to the United States, whose duty is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

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.

IN WITNESS WHEREOF, the undersigned have executed this Patent Assignment and License Agreement as of the 29th day of October 2014.

**Eldon Technology Limited**  
  
By: \_\_\_\_\_  
Name: Dean A. Manson  
Title: Executive Vice President,  
General Counsel & Secretary

**EchoStar UK Holdings Limited**  
  
By: \_\_\_\_\_  
Name: Michael T. Dugan  
Title: CEO & President

On this 29th day of October, 2014, before me a notary public in and for the county of Arapahoe in the State of Colorado, appeared Dean A. Manson, 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.

*Kaitlyn O'Hara*

Notary Public

KAITLYN O'HARA  
NOTARY PUBLIC  
STATE OF COLORADO  
NOTARY ID: 2006020733  
MY COMMISSION EXPIRES: OCTOBER 28, 2015 (Seal)

On this 29th day of October, 2014, before me a notary public in and for the county of Arapahoe in the State of Colorado, appeared Michael T. Dugan, 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.

*A. T. Dugan*

Notary Public

TARA FITZSIMMONS  
NOTARY PUBLIC  
STATE OF COLORADO  
NOTARY ID: 20134077861  
MY COMMISSION EXPIRES: DECEMBER 13, 2017 (Seal)

**Exhibit B**

**ASSIGNED PATENTS AND PATENT APPLICATIONS**

Filing Date	Application No.	Title
6/9/2010	12/797,050	APPARATUS, SYSTEMS AND METHODS FOR STORING PROGRAM EVENTS IN AN ENHANCED HISTORY BUFFER
5/27/2010	61/348,868	REPRESENTATION OF ONLINE DISCUSSION IN CONJUNCTION WITH PRIMARY VISUAL CONTENT
5/27/2011	13/117,694	REPRESENTATION OF ONLINE DISCUSSION IN CONJUNCTION WITH PRIMARY VISUAL CONTENT
9/14/2012	13/617,390	APPARATUS, SYSTEMS AND METHODS FOR REMOVING DEBRIS FROM A SURFACE
7/29/2014	14/445,852	APPARATUS, SYSTEMS AND METHODS FOR MEDIA CONTENT SEARCHING