

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>David Robert Burton</td> <td>03/28/2011</td> </tr> <tr> <td>Matthew Stephens</td> <td>03/28/2011</td> </tr> <tr> <td>Greg Blythe</td> <td>03/28/2011</td> </tr> <tr> <td>Trevor Hardaker</td> <td>03/29/2011</td> </tr> </tbody> </table>		Name	Execution Date	David Robert Burton	03/28/2011	Matthew Stephens	03/28/2011	Greg Blythe	03/28/2011	Trevor Hardaker	03/29/2011		
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Eldon Technology Limited</td> </tr> <tr> <td>Street Address:</td> <td>Beckside Design Centre, Millennium Business Park</td> </tr> <tr> <td>Internal Address:</td> <td>Station Road</td> </tr> <tr> <td>City:</td> <td>Steeton, Keighley</td> </tr> <tr> <td>State/Country:</td> <td>UNITED KINGDOM</td> </tr> <tr> <td>Postal Code:</td> <td>BD20 6QW</td> </tr> </table>		Name:	Eldon Technology Limited	Street Address:	Beckside Design Centre, Millennium Business Park	Internal Address:	Station Road	City:	Steeton, Keighley	State/Country:	UNITED KINGDOM	Postal Code:	BD20 6QW
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CORRESPONDENCE DATA													
Fax Number: (206)381-3301 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 206-381-3300 Email: abrazier@blgip.com Correspondent Name: Black Lowe & Graham PLLC Address Line 1: 701 Fifth Avenue Address Line 2: Suite 4800 Address Line 4: Seattle, WASHINGTON 98104													
ATTORNEY DOCKET NUMBER:	DISH-1-1059												
NAME OF SUBMITTER:	Raymond W. Armentrout												

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PATENT
REEL: 026072 FRAME: 0802

Total Attachments: 4

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

WHEREAS, David Robert Burton, 15 Wharfedale Close, Skipton, North Yorkshire, BD23 2JG, United Kingdom; Matthew Stephens, 3 Swarecliffe Road, Harrogate, North Yorkshire, HG1 4QZ; Greg Blythe, 9 Willow Park Road, Wilberfoss, York, YO41 5PS, United Kingdom; and Trevor Hardaker, Winterbank, 25 Scarlet Heights, Queensbury, Bradford, West Yorkshire, BD13 1BD, United Kingdom; (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 "**MEDIA DEVICE HAVING A PIEZOELECTRIC FAN**" filed in and/or with the United States Patent and Trademark Office on _____, and which has been assigned Application Serial Number _____ and which is further identified by the EchoStar Docket No. set forth above (hereinafter, the "Invention"); and

WHEREAS, Eldon Technology Limited, a private limited company organized and existing under the laws of the United Kingdom and having a principal place of business of Beckside Design Centre, Millennium Business Park, Station Road, Steeton, Keighley BD20 6QW, United Kingdom (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: DISH Network L.L.C.
Legal Department
9601 S. Meridian Blvd.
Englewood, CO 80112

JOINT

Inventor (1): David Robert Burton
Name of inventor

28/03/2011
Date

Citizenship: GB
Post Office Address: _____

Residence: 15 Wharfedale Close, Skipton, North Yorkshire, BD23 2JG, United Kingdom

Witness: CRAIG CHARLTON
Witness Name

28/03/2011
Date

(Signature in Full)

(Witness Signature)

JOINT

Inventor (2): Matthew Stephens
Name of inventor

28/03/2011
Date

Citizenship: GB
Post Office Address: _____

Residence: 3 Swarcliffe Road, Harrogate, North Yorkshire, HG1 4QZ

Witness: SIMON HILL
Witness Name

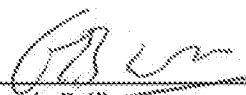
28/3/2011
Date

(Signature in Full)

(Witness Signature)

JOINT

Inventor (3): Greg Blythe
 Name of inventor


 (Signature in Full)

28/07/2011
 Date

Citizenship: GB

Post Office Address: _____

Residence: 9 Willow Park Road, Wilberfoss, York, YO41 5PS, United Kingdom

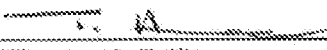
Witness: STEVEN M. MARLOW
 Witness Name


 (Witness Signature)

28/03/2011
 Date

JOINT

Inventor (4): Trevor Hardaker
 Name of inventor


 (Signature in Full)

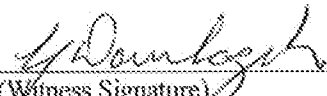
29/03/2011
 Date

Citizenship: GB

Post Office Address: _____

Residence: 25 Scarlet Heights, Queensbury, Bradford, West Yorkshire, BD13 1BD, United Kingdom

Witness: GEORGE DANIELLOV
 Witness Name


 (Witness Signature)

29-3-11
 Date