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SUBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT	
CONVEYING PARTY D	ΟΑΤΑ	,		
Name			Execution Date	
James Matthew WHITE			09/26/2008	
Karen Michelle TAXIER			09/29/2008	
Matthew COBURN			09/29/2008	
Luke VANDUYN			09/29/2008	
RECEIVING PARTY DA	ΑΤΑ			
Name:	ECHOSTAR TECHNOLOGIES LLC			
Street Address:	90 Inverness Circle East			
City:	Englewood			
State/Country:	COLORADO			
Postal Code:	80112			
Property Type Application Number: 12		Number 2241580		
CORRESPONDENCE DATA Fax Number: (480)385-5061 Correspondence will be sent via US Mail when the fax attempt is unsuccessful. Phone: (480) 385-5060 Email: scastillo@ifllaw.com Correspondent Name: Ingrassia Fisher & Lorenz, P.C. Address Line 1: 7010 East Cochise Address Line 4: Scottsdale, ARIZONA 85253-1406				
ATTORNEY DOCKET NUMBER:		066.0041 (P2008-06-0020)		
NAME OF SUBMITTER:		Brett A. Carlson		
Total Attachments: 4 source=20081006_Assi	ignment_P2008	-06-0020#page1.tif	PATENT	

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

WHEREAS, EchoStar Technologies LLC, a corporation organized and existing under the laws of the State of Texas, United States of America and having a principal place of business of 90 Inverness Circle East, Englewood, Colorado 80112 (hereinafter "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 the Invention, including, but not limited 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 Assignce:

NOW THEREFORE, Assignor hereby 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 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 Assignce 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-

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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 Assignce, 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: John T. Kennedy, Esq.
 Vice President of Intellectual Property EchoStar Technologies LLC
 90 Inverness Circle East Englewood, CO 80112

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SOLE INVENTOR					
\$	< tan				
Inventor (1): James Matthew White (Name)					
(Ivalie)	(Signature in Full)				
Citizenship: USA					
Post Office Address:					
Residence: 2040 S. Lafayette St., Denve	r, CO 80210				
On this $2/2^{4}$ day of $5/2^{6}$, 2008, of $4/2$ soster in the State of $2/2^{2}$	before me a notary public mound for the county				
of Assalaw in the State of Calass	1 appeared skill / 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 for	rth.				
Applan Mark John Son	North States and States				
My Commission Expires: <u>124 4, 200</u> 9	(Scal)				
Notary Public	(oear)				
SOLE OR JOINT					
\$					
SOLE OR JOINT Inventor (2): Karen Michelle Taxier (Name)	(Signature in Poll)				
Inventor (2): <u>Karen Michelle Taxier</u> (Name)	(Signature in Poll)				
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Inventor (2): <u>Karen Michelle Taxier</u> (Name) Citizenship: <u>USA</u> Post Office Address:					
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Inventor (2): <u>Karen Michelle Taxier</u> (Name) Citizenship: <u>USA</u> Post Office Address: <u></u> Residence: <u>9836 Foxhill Circle, Highlan</u>	ids Ranch, CO 80129				
Inventor (2): <u>Karen Michelle Taxier</u> (Name) Citizenship: <u>USA</u> Post Office Address: <u></u> Residence: <u>9836 Foxhill Circle, Highlan</u>	ids Ranch, CO 80129				
Inventor (2): <u>Karen Michelle Taxier</u> (Name) Citizenship: <u>USA</u> Post Office Address: <u></u> Residence: <u>9836 Foxhill Circle, Highlan</u> On this <u>96</u> day of <u>Sofo-Jac</u> , 2008, of <u>44006</u> in the State of <u>color</u>	before me a notary public in and for the county				
Inventor (2): <u>Karen Michelle Taxier</u> (Name) Citizenship: <u>VSA</u> Post Office Address: <u>Post Office Address</u> Residence: <u>9836 Foxhill Circle, Highlan</u> On this <u>29</u> ⁴⁶ day of <u>Safa A</u> , 2008, of <u>44</u> <u>A</u> , of <u>address</u> personally known to me to be the same person	before me a notary public in and for the county $\frac{1}{2}$, appeared $\frac{1}{2}$, who is whose name is subscribed to the foregoing				
Inventor (2): <u>Karen Michelle Taxier</u> (Name) Citizenship: <u>VSA</u> Post Office Address: Residence: <u>9836 Foxhill Circle, Highlan</u> On this <u>29</u> ⁴⁶ day of <u>Safa Age</u> , 2008, of <u>4444</u> in the State of <u>2008</u> personally known to me to be the same person instrument, and acknowledged that he signed, seals	before me a notary public in and for the county , appeared for the foregoing and delivered the same instrument as a free and				
Inventor (2): <u>Karen Michelle Taxier</u> (Name) Citizenship: <u>VSA</u> Post Office Address: <u>Post Office Address</u> Residence: <u>9836 Foxhill Circle, Highlan</u> On this <u>29</u> ⁴⁶ day of <u>Safa A</u> , 2008, of <u>44</u> <u>A</u> , of <u>address</u> personally known to me to be the same person	before me a notary public in and for the county , appeared for the foregoing and delivered the same instrument as a free and				
Inventor (2): <u>Karen Michelle Taxier</u> (Name) Citizenship: <u>VSA</u> Post Office Address: <u>9836 Foxhill Circle, Highlan</u> Residence: <u>9836 Foxhill Circle, Highlan</u> On this <u>96</u> day of <u>Sofandar</u> , 2008, of <u>44444</u> in the State of <u>2008</u> , of <u>44444</u> in the State of <u>2008</u> personally known to me to be the same person instrument, and acknowledged that he signed, seals voluntary act for the use and purposes therein set for	before me a notary public in and for the county , appeared for the foregoing and delivered the same instrument as a free and				
Inventor (2): <u>Karen Michelle Taxier</u> (Name) Citizenship: <u>VSA</u> Post Office Address: Residence: <u>9836 Foxhill Circle, Highlan</u> On this <u>96</u> day of <u>Sofordor</u> , 2008, of <u>44446</u> in the State of <u>2008</u> , of <u>44466</u> in the State of <u>2008</u> personally known to me to be the same person instrument, and acknowledged that he signed, seals voluntary act for the use and purposes therein set for	before me a notary public in and for the county , appeared for the foregoing and delivered the same instrument as a free and				
Inventor (2): <u>Karen Michelle Taxier</u> (Name) Citizenship: <u>VSA</u> Post Office Address: <u>Post Office Address</u> Residence: <u>9836 Foxhill Circle, Highlan</u> On this <u>Value</u> and <u>Salar Address</u> , 2008, of <u>4.444</u> in the State of <u>2008</u> , of <u>4.444</u> in the State of <u>2008</u> , of <u>4.444</u> in the State of <u>2008</u> personally known to me to be the same person instrument, and acknowledged that he signed, seals voluntary act for the use and purposes therein set for <u>Address</u> My Commission Expires: <u>2008</u>	before me a notary public in and for the county , appeared for the foregoing and delivered the same instrument as a free and				
Inventor (2): <u>Karen Michelle Taxier</u> (Name) Citizenship: <u>VSA</u> Post Office Address: Residence: <u>9836 Foxhill Circle, Highlan</u> On this <u>29</u> ⁴⁶ day of <u>Safa Age</u> , 2008, of <u>4444</u> in the State of <u>2008</u> personally known to me to be the same person instrument, and acknowledged that he signed, seals	before me a notary public in and for the county , appeared for the foregoing and delivered the same instrument as a free and				
Inventor (2): <u>Karen Michelle Taxier</u> (Name) Citizenship: <u>VSA</u> Post Office Address: <u>Post Office Address</u> Residence: <u>9836 Foxhill Circle, Highlan</u> On this <u>Value</u> and <u>Salar Address</u> , 2008, of <u>Address</u> in the State of <u>value</u> personally known to me to be the same person instrument, and acknowledged that he signed, seals voluntary act for the use and purposes therein set for <u>Address</u> <u>My Commission Expires</u> : <u>Page 4, 2009</u>	before me a notary public in and for the county , appeared for the foregoing and delivered the same instrument as a free and				

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SOLE OR JOINT	_ /]			
Inventor (3): <u>Matthew Coburn</u>				
(Name)	(Signature in Full)			
Citizenship:				
Post Office Address:				
Residence: <u>1421 Oneida Street #10, Den</u>	ver, CO 80220			
On this 39.43 day of 30.46 , 2008, before me a notary public in and for the county of 40.46 in the State of 30.46 , appeared 30.44 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.				
<u>MyCommission Expires:</u> Notary Public	(Seal)			
SOLE OR JOINT	· · · // · · · · · · · · · · · · · · ·			
Inventor (4): Luke VanDuyn	Jas Van			
(Name)	(Šignature in Full)			
Citizenship: <u>//>//</u> Post Office Address:				
Residence:3472 Foxridge Trail, Highlands Ranch, CO 80126				
On this 2013 day of <u>Solandar</u> 2008, before me a notary public in and for the county of <u>Adjustus</u> in the State of <u>Glassel</u> , appeared <u>Adjustus</u> , 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. <u>Adjustus</u> <u>Adjustus</u> <u>Adjustus <u>Adjustus</u></u>				
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RECORDED: 10/06/2008