

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Lin-Nan LEE</td> <td>05/16/2013</td> </tr> <tr> <td>Mustafa EROZ</td> <td>05/16/2013</td> </tr> <tr> <td>Neal BECKER</td> <td>05/16/2013</td> </tr> </tbody> </table>		Name	Execution Date	Lin-Nan LEE	05/16/2013	Mustafa EROZ	05/16/2013	Neal BECKER	05/16/2013
Name	Execution Date								
Lin-Nan LEE	05/16/2013								
Mustafa EROZ	05/16/2013								
Neal BECKER	05/16/2013								
RECEIVING PARTY DATA									
Name:	Hughes Network Systems								
Street Address:	11717 Exploration Lane								
City:	Germantown								
State/Country:	MARYLAND								
Postal Code:	20876								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13896275</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13896275				
Property Type	Number								
Application Number:	13896275								
CORRESPONDENCE DATA									
Fax Number:									
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	301-299-4624								
Email:	Craig@potomactechlaw.com								
Correspondent Name:	Potomac Technology Law, LLC								
Address Line 1:	9713 Sotweed Drive								
Address Line 4:	Potomac, MARYLAND 20854								
ATTORNEY DOCKET NUMBER:	P1122US00								
NAME OF SUBMITTER:	Craig Plastrik								
Signature:	/Craig Plastrik/								
Date:	05/16/2013								
Total Attachments: 1 source=Atty-No_P1122US00_Cust-No_110683_Assignment#page1.tif									

OP \$40.00 13896275

**PATENT ASSIGNMENT**

Assignor(s):	Lin-Nan LEE, Mustafa EROZ and Neal BECKER		
Assignee:	Hughes Network Systems, LLC 11717 Exploration Lane, Germantown, Maryland, 20876		
<b>Patent Application:</b>			
Title:	PLS Header Coding for Efficient Signaling of Modulation and Coding Schemes for Broadband Satellite Communications Systems		
<input checked="" type="checkbox"/>	executed by the undersigned concurrently herewith		
<input type="checkbox"/>	Application No:	{Enter App #}	Filing Date: {Enter date}
<p>In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, I/we, the above-named Assignors, hereby:</p> <p>sell, assign and transfer to the above-named Assignee (and its successors, assigns and legal representatives) the entire right, title and interest (for the United States and all foreign countries) in and to: (1) the above-identified patent application ("the Application"), including any and all improvements that are disclosed in the Application; and (2) all divisional, continuing, substitute, renewal, reissue and all other patent applications, which have been or are subsequently filed in the United States and any and all foreign countries, based on or claiming priority to the Application, or based on any of said improvements; and (3) all original and reissued patents that have been or are subsequently issued in the United States and any and all foreign countries from the Application or based on any of said improvements; and (4) any and all rights of priority arising from the filing of the Application in the United States and any and all foreign countries; and</p> <p>agree that the Assignee may apply for and receive a patent or patents from the Application and for said improvements in its own name; and that, to carry out in good faith the intent and purpose of this Assignment, I/we (without charge to, but at the expense of the Assignee) shall: execute the Application, and all divisional, continuing, substitute, renewal, reissue and other patent applications based on or claiming priority to the Application, or based on any and all of said improvements, and execute all associated assignments and powers of attorney; convey to the Assignee (and its successors, assigns and legal representatives) all known facts relating to the Application said improvements and the history thereof; and generally assist the Assignee (and its successors, assigns and legal representatives) in securing and maintaining proper patent protection for the Application and said improvements, and for vesting title in and to the Application, and all applications for patents and all patents on said improvements, in the Assignee (and its successors, assigns and legal representatives); and</p> <p>covenant with the Assignee (and its successors, assigns and legal representatives) that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the Assignor(s), and that full right to convey the same as herein expressed is possessed by the Assignor(s).</p>			
Date:	<u>May 16, 2013</u>	Lin-Nan LEE:	<u>Lin-Nan Lee</u>
Date:	<u>May 16, 2013</u>	Mustafa EROZ:	<u>Mustafa Eroz</u>
Date:	<u>5/16/2013</u>	Neal BECKER:	<u>Neal Becker</u>