

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT										
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT										
<b>CONVEYING PARTY DATA</b>											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Marcel Boucher</td> <td>08/04/2004</td> </tr> <tr> <td>Aaron Schen</td> <td>08/04/2004</td> </tr> <tr> <td>Craig Ivie</td> <td>08/04/2004</td> </tr> <tr> <td>Brian Jarvis</td> <td>08/04/2004</td> </tr> </tbody> </table>		Name	Execution Date	Marcel Boucher	08/04/2004	Aaron Schen	08/04/2004	Craig Ivie	08/04/2004	Brian Jarvis	08/04/2004
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Marcel Boucher	08/04/2004										
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<b>RECEIVING PARTY DATA</b>											
<b>Name:</b>	ReedHycalog, L.P.										
<b>Street Address:</b>	400 N Sam Houston Pkwy E #900										
<b>City:</b>	Houston										
<b>State/Country:</b>	TEXAS										
<b>Postal Code:</b>	77060										
<b>PROPERTY NUMBERS Total: 1</b>											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>10711589</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	10711589						
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Application Number:	10711589										
<b>CORRESPONDENCE DATA</b>											
<b>Fax Number:</b>	(281)878-5720										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
<b>Phone:</b>	2818785655										
<b>Email:</b>	jayne.sipl@grantprideco.com										
<b>Correspondent Name:</b>	Jayne Sippl										
<b>Address Line 1:</b>	400 N Sam Houston Pkwy E #900										
<b>Address Line 4:</b>	Houston, TEXAS 77060										
<b>NAME OF SUBMITTER:</b>	Jayne Sippl										
<b>Total Attachments: 3</b> source=78.1158 Assignment#page1.tif source=78.1158 Assignment#page2.tif source=78.1158 Assignment#page3.tif											

CH \$40.00 10711589

**PATENT**

## ASSIGNMENT

WHEREAS, we, Marcel Boucher, Aaron Schen, Craig Ivie, residents and citizens of the United States, and Brian Jarvis, resident and citizen of the United Kingdom, have made an invention in **“Apparatus for Weight on Bit Measurements, and Methods of Using Same,”** for which we have executed an application for United States Letters Patent, Serial No. 10/605,627 on October 15, 2003;

WHEREAS, we represent and warrant that we are the sole owners of said invention and application for Letters Patent;

WHEREAS, ReedHycalog, L.P., of 1330 Post Oak Boulevard, Suite 2700, Houston, Texas 77056, hereinafter referred to as "ASSIGNEE", is desirous of acquiring all rights, title and interest in the same;

NOW, THEREFORE, for and in consideration of One Dollar (\$1.00) and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by us, we have assigned, sold, transferred and set over and by these presents do assign, sell, transfer and set over unto said ASSIGNEE all rights, title and interest in and to (a) said invention and world-wide rights therein, (b) said application, including all divisions, continuations, continuations-in-part and substitutions thereof, and (c) all United States and foreign patents which shall issue on said invention, including all reissues, renewals and extensions thereof, for the United States, its territories and possessions and all foreign countries, including the right to file applications for Letters Patent on said invention in any and all foreign countries, the same to be held and enjoyed by said ASSIGNEE, its assigns and successors, as fully and entirely as the same would have been held and enjoyed by us, had this assignment and sale not been made.

We covenant and agree that we will, at any time upon the request and at the expense of said ASSIGNEE, execute and deliver any and all papers and do all lawful acts that may be necessary or desirable, in the opinion of said ASSIGNEE, to enable and assist said ASSIGNEE (a) obtain Letters Patent, both domestic and foreign, on said invention, (b) establish, maintain and secure title in said ASSIGNEE, its successors and assigns to said invention, application and Letters Patent, including making such title of lawful public record, and (c) defend, establish or otherwise preserve the validity of said Letters Patent against any and all infringers, and perform such other acts as necessary to give full force and effect to this assignment.

We hereby authorize and request the Commissioner of Patents of the United States to issue all Letters Patent based on said application and all said divisions, continuations, continuations-in-part, reissues, renewals and extensions to said ASSIGNEE, its successors and assigns.

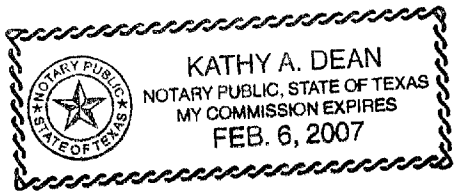
IN TESTIMONY WHEREOF, I have duly executed this assignment on this 1st day of July, 2004.

Marcel Boucher  
Marcel Boucher

STATE OF TEXAS §  
COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared Marcel Boucher, known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration expressed therein.

GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS 1 day of July, 2004.



Kathy A. Dean  
Notary Public in and for the State of Texas

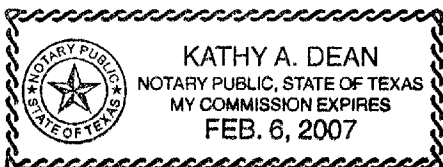
IN TESTIMONY WHEREOF, I have duly executed this assignment on this 1st day of July, 2004.

Aaron Schen  
Aaron Schen

STATE OF TEXAS §  
COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared Aaron Schen, known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration expressed therein.

GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS 1 day of July, 2004.



Kathy A. Dean  
Notary Public in and for the State of Texas

IN TESTIMONY WHEREOF, I have duly executed this assignment on this 30<sup>th</sup> day of June, 2004.

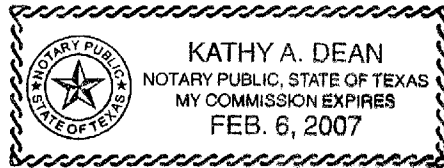
Craig Ivie  
Craig Ivie

STATE OF TEXAS                   §  
COUNTY OF HARRIS           §

BEFORE ME, the undersigned authority, on this day personally appeared Craig Ivie, known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration expressed therein.

GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS 30<sup>th</sup> day of June, 2004.

Kathy A. Dean  
Notary Public in and for the State of Texas



IN TESTIMONY WHEREOF, I have duly executed this assignment on this 4<sup>th</sup> day of August, 2004.

Brian Jarvis  
Brian Jarvis