

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

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>James W. Burrows</td><td>01/09/2003</td></tr><tr><td>Gunter W. Brune</td><td>01/07/2003</td></tr><tr><td>John E. Mercer</td><td>01/07/2003</td></tr></tbody></table>		Name	Execution Date	James W. Burrows	01/09/2003	Gunter W. Brune	01/07/2003	John E. Mercer	01/07/2003		
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John E. Mercer	01/07/2003										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>Digital Control Incorporated</td></tr><tr><td>Street Address:</td><td>425 SW 41st Street</td></tr><tr><td>City:</td><td>Renton</td></tr><tr><td>State/Country:</td><td>WASHINGTON</td></tr><tr><td>Postal Code:</td><td>98005</td></tr></table>		Name:	Digital Control Incorporated	Street Address:	425 SW 41st Street	City:	Renton	State/Country:	WASHINGTON	Postal Code:	98005
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PROPERTY NUMBERS Total: 1											
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Application Number:	11930483										
CORRESPONDENCE DATA											
Fax Number: (303)499-8516 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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ATTORNEY DOCKET NUMBER:	DCI-25C3										
NAME OF SUBMITTER:	Jay R Beyer										
Total Attachments: 2 source=Assignment1Dci-25c3#page1.tif source=Assignment1Dci-25c3#page2.tif											

OP \$40.00 11930483

PATENT

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REEL: 020042 FRAME: 0465

**ASSIGNMENT**  
(Accompanying the Application)

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged the undersigned, **James W. Burrows, Guenter W. Brune, and John E. Mercer:**

(1) hereby sell, assign, and transfer to **Digital Control Incorporated, a Washington corporation** having a place of business at **425 S. W. 41st Street, Renton, Washington 98005**, ("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 any and all improvements that are disclosed in the application for the United States patent that has been executed by the undersigned prior hereto or concurrently herewith on the dates indicated below and that is entitled **BORING TOOL TRACKING FUNDAMENTALLY BASED ON DRILL STRING LENGTH, PITCH AND ROLL** and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application;

(2) agree that said Assignee may apply for and receive a patent or patents for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

(3) covenant with said Assignee, 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 undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

**Each Inventor: Please Sign and Date Below:**

Dec. 09, 2002<sup>3</sup>  
Date

*James W. Burrows*  
Name: James W. Burrows

1/7, 2003  
Date

*Guenter W. Brune*  
Name: Guenter W. Brune

1/7, 2003  
Date

*John E. Mercer*  
Name: John E. Mercer

**Each Inventor: Please also list the date that you signed the accompanying DECLARATION AND POWER OF ATTORNEY:**

01/09, 2003<sup>3</sup>  
Date

1/7, 2003  
Date

1/7, 2003  
Date

**Assignment Document Return Address:**

**Customer Number 21833**  
Boulder Patent Services, Inc.  
1021 Gapter Road  
Boulder, Colorado 80303  
(303) 499-3859

State of: Washington }  
County of: King } SS.

On this 9<sup>th</sup> day of January, 2002, before me, Tami L. Vanderpoel,  
the undersigned Notary Public, personally appeared **James W. Burrows** ☐ personally known to me ☒ proved  
to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument,  
and acknowledged that he executed it.  
WITNESS my hand and official seal.

Tami L. Vanderpoel  
Notary's Signature

State of: Washington }  
County of: King } SS.

On this 7<sup>th</sup> day of January, 2002<sup>3</sup>, before me, Tami L. Vanderpoel,  
the undersigned Notary Public, personally appeared **Guenter W. Brune** ☒ personally known to me ☐ proved  
to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument,  
and acknowledged that he executed it.  
WITNESS my hand and official seal.

Tami L. Vanderpoel  
Notary's Signature

State of: Washington }  
County of: King } SS.

On this 7<sup>th</sup> day of January, 2002<sup>3</sup>, before me, Tami L. Vanderpoel,  
the undersigned Notary Public, personally appeared **John E. Mercer** ☒ personally known to me ☐ proved to  
me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument,  
and acknowledged that he executed it.  
WITNESS my hand and official seal.

Tami L. Vanderpoel  
Notary's Signature