

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
James W. Burrows	01/09/2003
Guenter W. Brune	01/07/2003
John E. Mercer	01/07/2003
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Digital Control Incorporated
<b>Street Address:</b>	425 SW 41st Street
<b>City:</b>	Renton
<b>State/Country:</b>	WASHINGTON
<b>Postal Code:</b>	98005
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	12780421
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(303)499-3859
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
<b>Phone:</b>	303-499-3859
<b>Email:</b>	jbeyer@knowamerica.com
<b>Correspondent Name:</b>	Jay R Beyer
<b>Address Line 1:</b>	993 GAPTER ROAD
<b>Address Line 4:</b>	BOULDER, COLORADO 80303
<b>ATTORNEY DOCKET NUMBER:</b>	DCI-25C5
<b>NAME OF SUBMITTER:</b>	Jay R Beyer
<b>Total Attachments: 2</b> source=Assignment1Dci-25c5#page1.tif source=Assignment1Dci-25c5#page2.tif	

OP \$40.00 12780421

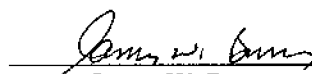


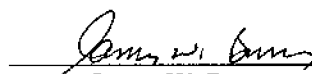


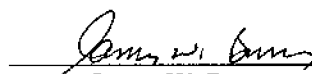


**ASSIGNMENT**  
(Accompanying the Application)

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.

<p><b>Each Inventor: Please Sign and Date Below:</b></p> <table style="width: 100%;"><tr><td style="width: 30%;"><u>Dec. 09</u>, 2002<sup>3</sup> Date</td><td style="width: 70%;"> Name: James W. Burrows</td></tr><tr><td><u>1/7</u>, 2003 Date</td><td> Name: Guenter W. Brune</td></tr><tr><td><u>1/7</u>, 2003 Date</td><td> Name: John E. Mercer</td></tr></table>	<u>Dec. 09</u> , 2002 <sup>3</sup> Date	 Name: James W. Burrows	<u>1/7</u> , 2003 Date	 Name: Guenter W. Brune	<u>1/7</u> , 2003 Date	 Name: John E. Mercer	<p><b>Each Inventor: Please also list the date that you signed the accompanying DECLARATION AND POWER OF ATTORNEY:</b></p> <table style="width: 100%;"><tr><td style="width: 30%;"><u>01/09</u>, 2003 Date</td></tr><tr><td><u>1/7</u>, 2003 Date</td></tr><tr><td><u>1/7</u>, 2003 Date</td></tr></table>	<u>01/09</u> , 2003 Date	<u>1/7</u> , 2003 Date	<u>1/7</u> , 2003 Date
<u>Dec. 09</u> , 2002 <sup>3</sup> Date	 Name: James W. Burrows									
<u>1/7</u> , 2003 Date	 Name: Guenter W. Brune									
<u>1/7</u> , 2003 Date	 Name: John E. Mercer									
<u>01/09</u> , 2003 Date										
<u>1/7</u> , 2003 Date										
<u>1/7</u> , 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