

11-01-1999

ASSIGNM



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To: Honorable Commissioner of Patents and Trademarks:

Please record the attached original document.

1. Names of conveying parties

- a) **John E. Mercer**
- b) **Peter H. Hambling**
- c) **Rudolf Zeller**
- d) **Shiu Ng**
- e) **Guenter W. Brune**
- f) **Lloyd A. Moore**

2. Name and address of receiving party:

- a) Name: **Digital Control Incorporated**  
Address: **425 S. W. 41st Street**  
**Renton, Washington 98055**

09/422814

3. Nature of conveyance

X Assignment

4. This document is being filed together with a new continuation application, the execution date of the parent application is **April 11, 1997** for **Lloyd A. Moore** and **April 14, 1997** for all of the other inventors. The title of the new application is:

**SYSTEMS, ARRANGEMENTS AND ASSOCIATED METHODS FOR TRACKING AND/OR GUIDING AN UNDERGROUND BORING TOOL**

5. Please send all correspondence concerning this document to: **Customer Number 21833**

**Jay R Beyer**  
Boulder Patent Services, Inc.  
1021 Gapter Road  
Boulder, Colorado 80303  
Tel. No.: (303) 499-3859  
Fax No.: (303) 499-8516

6. Total number of applications and patents involved: **1**

7. Total fee (37 CFR 3.41): **\$40.00** (Enclosed)

8. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Date: **October 21, 1999**

Jay R Beyer  
Reg. No. 39,907  
Att. Docket No. **DCI-P006D1**

40.00  
PATENT  
REEL: 010337 FRAME: 0053

# ASSIGNMENT OF PATENT APPLICATION

(Accompanying Application)

Whereas we the undersigned inventors have invented certain new and useful improvements as set for in the patent application entitled:

## SYSTEMS, ARRANGEMENTS AND ASSOCIATED METHODS FOR TRACKING AND/OR GUIDING AN UNDERGROUND BORING TOOL

(Atty. Docket No.: **DCI-P006**) for which we have executed an application for a United States Letters Patent on the date indicated below.

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we the undersigned inventors hereby:

- 1) Sell, assign and transfer to **Digital Control Incorporated**, a **Washington** corporation having a place of business at **425 S.W. 41st STREET., Renton, Washington**, (hereinafter referred to as "ASSIGNEE"), the entire right title and interest in any and all improvements and inventions disclosed in, application(s) based upon, and Patent(s) (including foreign patents) granted upon the information which is disclosed in the above referenced application.
- 2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application or any division(s), continuation(s), substitutes(s) or reissue(s) thereof to the ASSIGNEE.
- 3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative and applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
- 4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon the inventors, as well as the inventors' heirs, legal representatives and assigns.
- 5) Warrant and represent that we have not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.

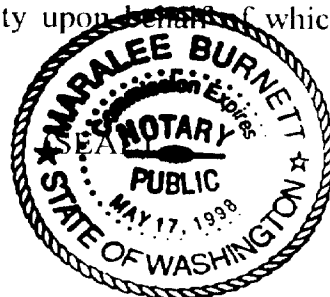
Signed on the date(s) indicated beside our signatures.

1) Signature: John E. Mercer Date: 4/14/97  
Typed Name: JOHN E. MERCER

On this 14<sup>th</sup> day of April, in the year 1997, before me, Maralee Burnett, personally appeared John E. Mercer, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

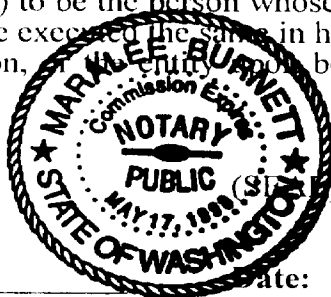
Signature Maralee Burnett



2) Signature: Peter Hambling Date: 4/14/97  
Typed Name: **PETER H. HAMBLING**

On this 14<sup>th</sup> day of April, in the year 1997, before me, Maralee Burnett, personally appeared Peter Hambling, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.  
WITNESS my hand and official seal.

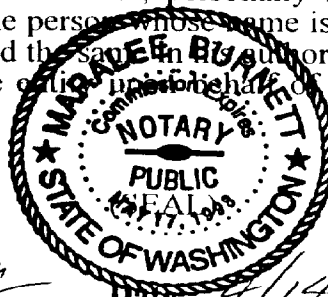
Signature Maralee Burnett



3) Signature: Rudolf Zeller Date: 4/14/97  
Typed Name: **RUDOLF ZELLER**

On this 14<sup>th</sup> day of April, in the year 1997, before me, Maralee Burnett, personally appeared Rudolf Zeller, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.  
WITNESS my hand and official seal.

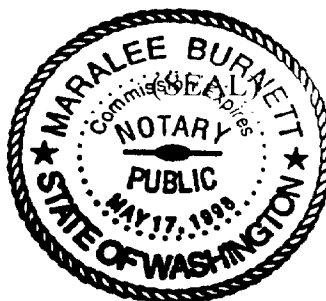
Signature Maralee Burnett



4) Signature: Shiu S. Ng Date: 4/14/97  
Typed Name: **SHIU S. NG**

On this 14<sup>th</sup> day of April, in the year 1997, before me, Maralee Burnett, personally appeared Shiu S. Ng, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.  
WITNESS my hand and official seal.

Signature Maralee Burnett



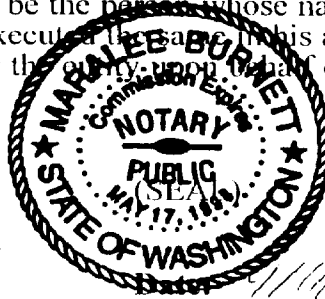
5) Signature: Guenter W. Brune  
Typed Name: GUENTER W. BRUNE

Date: 4/14/97

On this 14<sup>th</sup> day of April, in the year 1997, before me, Maralee Burnett, personally appeared Guenter W. Brune, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature Maralee Burnett



6) Signature: Lloyd A. Moore  
Typed Name: LLOYD A. MOORE

On this 11<sup>th</sup> day of April, in the year 1997, before me, Lloyd A. Moore, personally appeared Lloyd A. Moore, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature Maralee Burnett

(SEAL)

