

07-24-1998



100773811

RECORDATION FORM COVER SHEET

PATENTS ONLY COL2-033-1-2II

100773811 U.S. PTO  
09/110779  
07/06/98

MRD  
7-6-98

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies)

Submission Type

New

Resubmission (Non-Recordation)  
Document ID#

Correction of PTO Error  
Reel #  Frame #

Corrective Document  
Reel #  Frame #

Conveyance Type

Assignment  Security Agreement

License  Change of Name

Merger  Other

**U.S. Government**  
(For Use ONLY by U.S. Government Agencies)

Departmental File  Secret File

Conveying Party(ies)

Mark if additional names of conveying parties attached

Name (line 1)	<input type="text" value="Glen Prater, Jr."/>	Execution Date Month Day Year	<input type="text" value="01-17-1997"/>
Name (line 2)	<input type="text"/>		
<b>Second Party</b>		Execution Date Month Day Year	
Name (line 1)	<input type="text" value="Robert L. Collins"/>		<input type="text" value="01-17-1997"/>
Name (line 2)	<input type="text"/>		

Receiving Party

Mark if additional names of receiving parties attached

Name (line 1)   If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

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Address (line 1)

Address (line 2)

Address (line 3)     
City State/Country Zip Code

Domestic Representative Name and Address

Enter for the first Receiving Party only.

07/14/1998 09110779 00000037 09110779

02 FC:581 40.00 CP

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Address (line 2)

Address (line 3)

Address (line 4)

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**Pages**

Enter the total number of pages of the attached conveyance document including any attachments.

#

**Application Number(s) or Patent Number(s)**

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

**Patent Application Number(s)**

<input type="text"/>	<input type="text"/>	<input type="text"/>
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<input type="text"/>	<input type="text"/>	<input type="text"/>

**Patent Number(s)**

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If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

**Patent Cooperation Treaty (PCT)**

Enter PCT application number only if a U.S. Application Number has not been assigned.

PCT <input type="text"/>	PCT <input type="text"/>	PCT <input type="text"/>
PCT <input type="text"/>	PCT <input type="text"/>	PCT <input type="text"/>

**Number of Properties**

Enter the total number of properties involved.

#

**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41): \$

Method of Payment:  
Deposit Account

Enclosed  Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

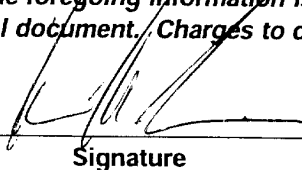
Deposit Account Number: #

Authorization to charge additional fees: Yes  No

**Statement and Signature**

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. Charges to deposit account are authorized, as indicated herein.

Christen M. Millard  
Name of Person Signing



Signature

7/6/98  
Date

RECORDATION FORM COVER SHEET  
CONTINUATION  
PATENTS ONLY

Conveying Party(ies)

Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Execution Date  
Month Day Year

Name (line 1) Songnian Wang

01-17-1997

Name (line 2)

Execution Date  
Month Day Year

Name (line 1) William P. Hnat

01-17-1997

Name (line 2)

Execution Date  
Month Day Year

Name (line 1)

Name (line 2)

Receiving Party(ies)

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Name (line 1)

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Address (line 1)

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Address (line 3)

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State/Country

Zip Code

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Patent Application Number(s)

Patent Number(s)



ASSIGNMENT

WHEREAS, We, Glen Prater, Jr., Ph.D., of the City of Crestwood, County of Oldham; and Robert L. Collins, Ph.D., of the City of Louisville, County of Jefferson; and Songnian Wang, of the City of Louisville, County of Jefferson; all of the State of Kentucky; and William P. Hnat, Ph.D. of the City of Floyd Knob, County of Floyd, of the State of Indiana, have invented certain new and useful improvements in SMALL DIAMETER IMPACT BORING TOOL for which we are about to make application for Letters Patent of the United States; and

WHEREAS, Columbia Gas Distribution Companies, a corporation of the State of Ohio, having a place of business at 1600 Dublin Road, Columbus, Ohio, herein called "ASSIGNEE", is desirous of acquiring our entire right, title, and interest in said invention and application therefor, and in any patent or patents to be obtained therefor;

NOW, THEREFORE, To All Whom It May Concern, be it known that, for and in consideration of the sum of One Dollar (\$1.00), and other good and valuable considerations, the receipt of which is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto said Assignee, our entire right, title, and interest in and to the invention shown, described, or claimed therein, and the full and exclusive right and title to said application executed by us on the 17 day of January, 1998, preparatory to obtaining Letters Patent of the United States therefor; and in and to any extensions, reissues, divisions, or renewals thereof; and we do hereby authorize and request the Commissioner of Patents or other proper Officer to issue such Letters Patent, or any of them, to the said Assignee, and the Assignee of our entire right, title, and interest in and to the same for the sole use and behoof of the said Assignee, and its successors or assigns.

And we further covenant and agree that we will, at the request and expense of the said Assignee, execute such other and further assurance of title as may be necessary or proper to fully convey the interest herein sought to be conveyed; that we will, at the request and expense of the said Assignee, execute such application papers as may be desired by the said Assignee for the filing of any division or renewal of the application herein conveyed, or for the reissues or extension of any Letters Patent that may be granted upon said application, and we will execute such Supplemental Oaths and Preliminary Statements, or other papers as desired by the said Assignee.

And we further assign unto the said Assignee our whole right, title, and interest to the invention disclosed in the application throughout all countries foreign to the United States, and do hereby authorize the said Assignee to apply for patents therefore

PATENT

REEL: 9330 FRAME: 0695



