

10-16-2003

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U.S. DEPARTMENT OF COMMERCE
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102576045

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

10-2-03
**Kwong-Onn C. Chan, Behrooz Movaffagh,
Xiaoping He, and Loren Pierre Boisvert**Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of Conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

2. Name and address of receiving party(ies):

Name: **ABB Vetco Gray Inc.**Internal Address: **Third Floor**Street Address: **3010 Briarpark Drive**City: **Houston** State: **Texas** Zip: **77042**Additional name(s) & address(es) attached? ☐ Yes ☒ NoExecution Date: **September 29 and 30, 2003**

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: **September 29 and 30, 2003**

A. Patent Application No.(s)

10677871

B. Patent No.(s)

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: **James E. Bradley**Internal Address: **BRACEWELL & PATTERSON, L.L.P.**Street Address: **P. O. Box 61389**City: **Houston** State: **Texas** Zip: **77208-1389**6. Total number of applications and patents involved: **1**

7. Total fee (37 CFR 3.41):

\$40.00☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit Account No.

ABB Vetco Gray Inc. 22-0279 (V2002070A)

(Attach duplicate copy if paying by deposit account)

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9. 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.

James E. Bradley, Reg. No. 27,536
Name of Person SigningOctober 2, 2003
DateTotal number of pages including cover sheet, attachments, and documents: **4**Mail documents to be recorded with required cover sheet information to:
Commissioner for Patents, Mail Stop: Assignments
P.O. Box 1450, Alexandria, VA 22313-1450PATENT
REEL: 014583 FRAME: 0146

PATENT APPLICATION ASSIGNMENT

WHEREAS, we, **Kwong-Onn C. Chan**, a citizen of Canada, residing at 11908-28 Ave NW, Edmonton, Alberta, Canada T6J 6B9; **Behrooz Movaffagh**, a citizen of Canada, residing at 7622-10 Ave NW, Edmonton, Alberta, Canada T6K 2T6; **Xiaoping He**, a citizen of Canada, residing at 10411-20 Ave NW, Edmonton, Alberta, Canada T6J 5A1; and **Loren Pierre Boisvert**, a citizen of Canada, residing at 25 Charlton Crescent, Sherwood Park, Alberta, Canada T8H 1R1, have invented new and useful improvements in a

DRILL STRING SHUTOFF VALVE

for which application is being made for Letters Patent, said application being executed by us on the dates of September 29, 2003, September 29, 2003, September 29, 2003, and September 30, 2003, and further being identified by Attorney's Docket V2002070A.


WHEREAS, **ABB Vetco Gray Inc.**, a Delaware corporation, having a principal place of business at 3010 Briarpark, Third Floor, Houston, Texas 77042, is desirous of acquiring our entire right, title and interest in said application and the Letters Patent which may issue thereon.

NOW THEREFORE, be it known by all whom it may concern that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we hereby assign to said corporation, both in and for the territory of the United States of America and the entire world, all our title and interest in and to said invention, patent application and any patent which may issue thereon, including all divisions, continuations, reissues, continuations-in-part and substitutions thereof, plus all priority rights for patent applications foreign to the United States of America.

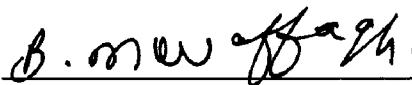
We FURTHER hereby assign and transfer to said corporation whatever cause of action we may have for past or present infringement of said invention, together with the right to bring suit for any such infringement and to seek and receive damages and other relief arising from any such infringement.

We HEREBY covenant and agree that we will at any time, upon the request and at the expense of said corporation, execute and deliver any and all papers and do all lawful acts that may be necessary or desirable to perfect the title and said invention, applications and patents, and we authorize the Commissioner of Patents and Trademarks to issue Letters Patent to said corporation.

IN TESTIMONY WHEREOF, I execute this Assignment on the 29 day of
September, 2003.


Kwong-Onn C. Chan

IN TESTIMONY WHEREOF, I execute this Assignment on the 29 day of
Sept., 2003.


Behrooz Movaffagh

IN TESTIMONY WHEREOF, I execute this Assignment on the 29 day of
sep, 2003.


Xiaoping He

IN TESTIMONY WHEREOF, I execute this Assignment on the _____ day of
_____, 2003.

Loren Pierre Boisvert

IN TESTIMONY WHEREOF, I execute this Assignment on the _____ day of _____, 2003.

Kwong-Onn C. Chan

IN TESTIMONY WHEREOF, I execute this Assignment on the _____ day of _____, 2003.

Behrooz Movaffagh

IN TESTIMONY WHEREOF, I execute this Assignment on the _____ day of _____, 2003.

Xiaoping He

IN TESTIMONY WHEREOF, I execute this Assignment on the 30 day of SEPTEMBER, 2003.



Loren Pierre Boisvert