

12-07-2000



To the Assistant Commissioner for Patents:

101543333

copy thereof.

1. NAME OF CONVEYING PARTY(IES):

James E. Brooks
Wenbo Yang
Brenden M. Grove
Ian C. Walton
Manish Kothari
Lawrence Al. Behrmann
Alfredo Fayard
Daniel C. Markel
Wallace E. Voreck

11-6-00

2. NAME AND ADDRESS OF RECEIVING PARTY(IES):

Schlumberger Technology Corporation
110 Schlumberger Drive
Sugar Land, TX 77478

No additional names attached

No additional names & addresses attached

3. NATURE OF CONVEYANCE:

ASSIGNMENT EXECUTION DATE: July 27, August 1, 2, and 3, 2000

4. APPLICATION NUMBER(S) OR PATENT NUMBER(S):

If this document is being filed with a new application, the filing date of the application is: _____

A. PATENT APPLICATION NO.(s) 09/620,980

B. PATENT NO.(s)

NO ADDITIONAL NUMBERS ATTACHED

5. NAME AND ADDRESS FOR CORRESPONDENCE:

Schlumberger Technology Corporation
Attn: Patent Counsel
P.O. Box 1590
Rosharon, Texas 77583-1590

6. TOTAL NUMBER OF APPLNS. & PATENTS INVOLVED 1

7. TOTAL FEE (37 CF4.3.41) \$40.00

CHARGE TO DEPOSIT ACCOUNT

8. DEPOSIT ACCOUNT NO. 50 0457
(a duplicate of this page is attached)

12/07/2000 DBYRNE 00000049 500457 09620980
01 FC:581 40.00 CH

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.

Jeffrey E. Griffin, Reg. No. 36554 (Signature)

11/1/00 (Date)

Total number of pages including cover sheet, attachments and document: 7

ASSIGNMENT

WHEREAS, We, JAMES E. BROOKS, a citizen of the United States, residing at 9520 Oak Crest Drive, Manvel, Texas, 77578; WENBO YANG, a citizen China residing at 3019 Sam Houston Drive, Sugar Land, Texas 77479; BRENDEN M. GROVE, a citizen of the United States, residing at 3518 Plymouth Pointe Lane, Missouri City, Texas 77459; IAN C. WALTON, a citizen of the United Kingdom, residing at 703 Johnson Lane, Sugar Land, Texas 77479; MANISH KOTHARI, a citizen of India, residing at 10502 Fountain Lake Drive, Stafford, Texas, 77477; LAWRENCE A. BEHRMANN, a citizen of the United States, residing at 12442 Shadycrest Drive, Houston, Texas, 77082;; ALFREDO FAYARD, a citizen of Argentina, residing at 4730 Dunleigh Court, Sugar Land, Texas 77479; DANIEL C. MARKEL, a citizen of the United States, residing at 3015 Falls Creek Court, Pearland, Texas 77584; and WALLACE E. VORECK, a citizen of the United States, residing at 2551 Loop 35, Apt. 1218, Alvin, Texas 77511, hereinafter referred to as the "Inventors", have made inventions and improvements in: COMPONENTS AND METHODS FOR USE WITH EXPLOSIVES application for United States Letters Patent, executed of even date herewith, hereinafter referred to as the "Invention(s)".

AND WHEREAS SCHLUMBERGER TECHNOLOGY CORPORATION, hereinafter referred to as "said COMPANY," a corporation duly organized, incorporated and existing under the laws of the State of Texas, and having a place of business at 110 Schlumberger Drive, Sugar Land, Texas 77478, is desirous of acquiring or confirming its acquisition of the entire right, title and interest in and to the Invention(s), and in and to said application, and in and to any and to any and all patents, both of the United States and of all foreign countries, that may be obtained therefore.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that I, for good and valuable considerations, the receipt and sufficiency of which hereby acknowledge, have sold, assigned, transferred and conveyed, and by this assignment do sell, assign, transfer and convey, unto said COMPANY, its successors and assigns, my entire right, title and interest throughout the world, in and to the Invention(s), described or set forth in said application, in any form or embodiment thereof, and in and to said application, and in and to any applications filed in any foreign country based thereon, including the right to file foreign applications under the provisions of any convention or treaty; and in and to any confirmation, divisional, continuation, continuation-in-part, or substitute application which may be filed on the Invention(s) in the United States or in any foreign country; and in and to any and all patents, certificates, utility models, reissues, extensions, additions or confirmations thereof which may be granted in the United States or in any foreign country upon the Invention(s).

TO HAVE AND TO HOLD the same to the full end of the term or terms for which any and all such United States and foreign patents and grants may be issued on the Invention(s).

AND I do hereby authorize and request the issuing authority to issue any and all of said United States and foreign patents on said application or applications to said COMPANY, its successors and assigns, as the assignee of my entire right, title and interest in and to the same, for the sole use and benefit of said COMPANY, its successors and assigns.

AND I do hereby covenant and warrant that I have full right to convey my entire right, title and interest herein assigned free and clear of all licenses, encumbrances and liens whatsoever, and that I have not executed and will not execute any instruments in conflict herewith.

AND I, for the conditions aforesaid, do hereby covenant and agree to and with the said COMPANY, its successors and assigns, that I, my executors, administrators, or other personal representatives, shall and will do all lawful acts and things, make all rightful oaths, and make, execute and deliver any and all other instruments in writing, and any and all further applications, papers, powers, affidavits, assignments, disclaimers and other documents, which in the opinion of counsel for said COMPANY, its successors and assigns, may be required or necessary in this or in any foreign country more effectually to secure and vest in said COMPANY, its successors and assigns, the entire right, title and interest in and to the Invention(s), and any related application or applications, patents, rights, titles, benefits, privileges, and advantages hereby sold, assigned, confirmed, transferred and conveyed.

IN WITNESS WHEREOF, I, James E. Brooks, have hereunto set my hand and seal this August 1, 2000.

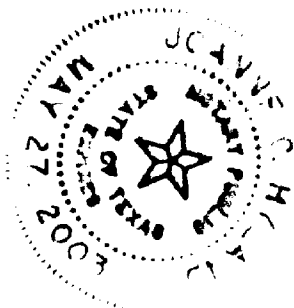
James E. Brooks
JAMES E. BROOKS

STATE OF TEXAS §
 §
COUNTY OF BRAZORIA §

BEFORE ME, this August 1, 2000, personally appeared James E. Brooks to me known to be the person who is described in and who executed the foregoing assignment instrument, and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

James C. Highland
Notary Public in and for the State of Texas

SEAL



IN WITNESS WHEREOF, I, Wenbo Yang, have hereunto set my hand and seal this

8/11, 2000.

Wenbo Yang
WENBO YANG

STATE OF TEXAS §
 §
COUNTY OF BRAZORIA §

BEFORE ME, this August 1, 2000, personally appeared Wenbo Yang to me known to be the person who is described in and who executed the foregoing assignment instrument, and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.



Joanna C. Hill
Notary Public in and for the State of Texas

IN WITNESS WHEREOF, I, Brenden M. Grove, have hereunto set my hand and seal this 8-1, 2000.

Brenden M. Grove
BRENDEN M. GROVE

STATE OF TEXAS §
 §
COUNTY OF BRAZORIA §

BEFORE ME, this August 1, 2000, personally appeared BRENDEN M. GROVE to me known to be the person who is described in and who executed the foregoing assignment instrument, and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.



Joanna C. Hill
Notary Public in and for the State of Texas

IN WITNESS WHEREOF, I, Ian C. Walton, have hereunto set my hand and seal this 8/1/, 2000.

Ian C. Walton

IAN C. WALTON

STATE OF TEXAS §
COUNTY OF BRAZORIA §

BEFORE ME, this August 1, 2000, personally appeared Ian C. Walton to me known to be the person who is described in and who executed the foregoing assignment instrument, and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.



Jane C. Highland
Notary Public in and for the State of Texas

IN WITNESS WHEREOF, I, Manish Kothari, have hereunto set my hand and seal this 8/3/, 2000.

Manish Kothari

MANISH KOTHARI

STATE OF TEXAS §
COUNTY OF BRAZORIA §

BEFORE ME, this August 3, 2000, personally appeared MANISH KOTHARI to me known to be the person who is described in and who executed the foregoing assignment instrument, and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.



Jane C. Highland
Notary Public in and for the State of Texas

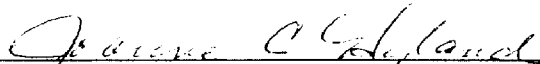
IN WITNESS WHEREOF, I, Lawrence A. Behrmann, have hereunto set my hand and seal
this 3 Aug, 2000.


LAWRENCE A. BEHRMANN

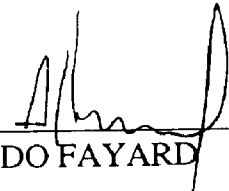
STATE OF TEXAS §
§
COUNTY OF BRAZORIA §

BEFORE ME, this August 3, 2000, personally appeared Lawrence A. Behrmann
to me known to be the person who is described in and who executed the foregoing assignment
instrument, and acknowledged to me that he executed the same of his own free will for the purpose
therein expressed.



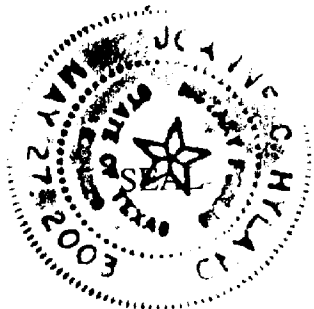

Notary Public in and for the State of Texas

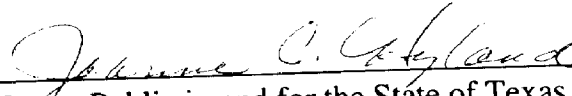
IN WITNESS WHEREOF, I, Alfredo Fayard, have hereunto set my hand and seal this
August 3rd, 2000.


ALFREDO FAYARD

STATE OF TEXAS §
§
COUNTY OF BRAZORIA §

BEFORE ME, this August 3, 2000, personally appeared Alfredo Fayard to me
known to be the person who is described in and who executed the foregoing assignment instrument,
and acknowledged to me that he executed the same of his own free will for the purpose therein
expressed.




Notary Public in and for the State of Texas

IN WITNESS WHEREOF, I, Daniel C. Markel, have hereunto set my hand and seal this

Aug. 2, 2000.

Daniel C. Markel

DANIEL C. MARKEL

STATE OF TEXAS §
§
COUNTY OF BRAZORIA §

BEFORE ME, this August 2, 2000, personally appeared Daniel C. Markel to me known to be the person who is described in and who executed the foregoing assignment instrument, and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.



Juanita C. England
Notary Public in and for the State of Texas

IN WITNESS WHEREOF, I, Wallace E. Voreck, have hereunto set my hand and seal this July 27, 2000.

Wallace E. Voreck
WALLACE E. VORECK

STATE OF TEXAS §
§
COUNTY OF BRAZORIA §

BEFORE ME, this July 27, 2000, personally appeared Wallace E. Voreck to me known to be the person who is described in and who executed the foregoing assignment instrument, and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.



Juanita C. England
Notary Public in and for the State of Texas