

04-22-1999



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

1. NAME OF CONVEYING PARTY(IES):

Raymond Joseph Tibbles
Mehmet Parlar
Frank F. Chang
Diankui Fu
Jonathan Mark Davison
Elizabeth Whiteford Angus Morris
Antje M. Wierenga
Palathinkara S. Vinod

No additional names attached

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

Schlumberger Technology Corporation
110 Schlumberger Drive
Sugar Land, Texas 77478

No additional names & addresses attached

3. NATURE OF CONVEYANCE:

ASSIGNMENT

EXECUTION DATE: March 9, 1999, March 9, 1999, February 12, 1999, February 12, 1999, March 23, 1999, March 23, 1999, March 18, 1999 and February 12, 1999, respectively

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

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

A. PATENT APPLICATION NO.(s) 09/224,440

B. PATENT NO.(s)

NO ADDITIONAL NUMBERS ATTACHED

5. NAME AND ADDRESS FOR CORRESPONDENCE:

Patent Counsel
Schlumberger Technology Corporation
Dowell Division
110 Schlumberger Drive, MD-1975
Sugar Land, Texas 77478

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. 04-1579(56.0507)
(a duplicate of this page is attached)

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.

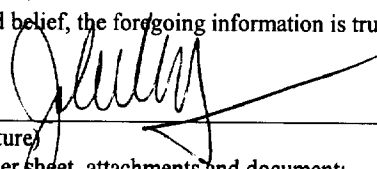
(Signature)

(Date)

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

53/21/5

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 4-8-99

ASSIGNMENT

WHEREAS, we,

1. **Raymond Joseph TIBBLES**, a citizen of the United States of America, whose residential address is 107 Cricklade Court, Youngsville, Louisiana 70592, U.S.A.;
2. **Mehmet PARLAR**, a citizen of the United States of America, whose residential address is 302 Burlington Avenue, Broussard, Louisiana 70508, U.S.A.
3. **Frank F. CHANG**, a citizen of Taiwan, R.O.C., whose residential address is 7215 Emerald Glen Drive, Sugar Land, Texas 77479, U.S.A.;
4. **Diankui FU**, a citizen of the People's Republic of China, whose residential address is 1819 Brightlake Way, Missouri City, Texas 77459, U.S.A.;
5. **Jonathan Mark DAVISON**, a citizen of the United Kingdom, whose residential address is Monaltrie House, St. Marnan Road, Torphins, Aberdeenshire, AB31 4JQ, Scotland, U.K.
6. **Elizabeth Whiteford Angus MORRIS**, a citizen of the United Kingdom, whose residential address is 71, Sunnyside Road, Aberdeen AB24 3LT, U.K.
7. **Anieke WIERENGA**, a citizen of the Netherlands, whose residential address is 7171 Buffalo Speedway, #2531, Houston, Texas 77025, U.S.A.; and
8. **Palathinkara S. VINOD**, a citizen of India, whose residential address is 10502 Fountain Lake Drive, #917, Stafford, Texas 77477, U.S.A.

Anie M
AM

hereinafter referred to as the "Inventors" have invented certain new and useful improvements in

FLUIDS AND TECHNIQUES FOR HYDROCARBON WELL COMPLETIONS

for which we have described and set forth in an application for Letters Patent of the United States of America, which was filed in the United States Patent and Trademark Office:

- herewith
 on **December 31, 1998** under United States Serial No. **9/224.440**.

AND WHEREAS, **Schlumberger Technology Corporation**, hereinafter referred to as the "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 (P.O. Box 4610, Houston, Texas 77210-4610) is desirous of acquiring or confirming its acquisition of the entire right, title and interest in and to said invention, inventions or improvements, and in and to said application, and in 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 we the Inventors, for good and valuable considerations, the receipt and sufficiency of which we 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, the entire right, title and interest throughout the world, in and to the invention, inventions or improvements 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 said invention, inventions or improvements 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 said invention, inventions or improvements,

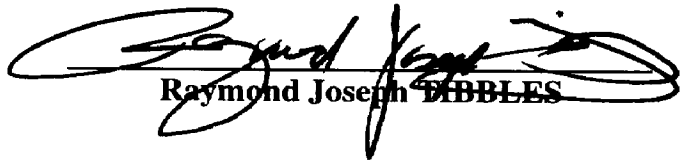
TO HAVE AND TO HOLD the same to the full end of the term or terms for which any and all such United States and foreign patents and grants may be issued on said invention, inventions or improvements.

AND WE 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 the entire right, title and interest in and to the same, for the sole use and benefit of said COMPANY, its successors and assigns.

AND WE DO HEREBY COVENANT AND WARRANT that we have full right to convey the entire right, title and interest herein assigned free and clear of all licenses, encumbrances and liens whatsoever, and that we have not executed and will not execute any instruments in conflict herewith.

AND WE, FOR THE CONDITIONS AFORESAID, DO HEREBY COVENANT and agree to and with the said COMPANY, its successors and assigns, that we, my executors or administrators, will 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 to and vest in said COMPANY, its successors and assigns, the entire right, title and interest in and to said invention, inventions or improvements, application or applications, patents, rights, titles, benefits, privileges, and advantages hereby sold, assigned, confirmed, transferred and conveyed.

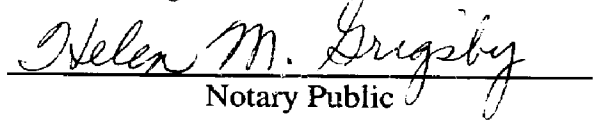
IN TESTIMONY WHEREOF, I have duly executed this Assignment on this 9TH day of March, 1999.


Raymond Joseph TIBBLES

STATE OF Louisiana §
PARISH §
COUNTY OF Lafayette §

BEFORE ME, the undersigned authority, on this day personally appeared **Raymond Joseph TIBBLES**, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that she executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 9TH day of March, 1999.


Notary Public

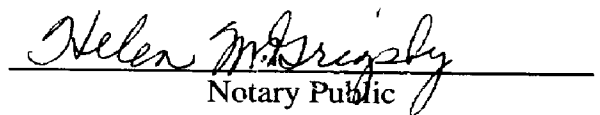
IN TESTIMONY WHEREOF, I have duly executed this Assignment on this 9TH day of March, 1999.


Mehmet PARLAR

STATE OF Louisiana §
PARISH §
COUNTY OF Lafayette §

BEFORE ME, the undersigned authority, on this day personally appeared **Mehmet PARLAR**, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that she executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 9TH day of March, 1999.


Notary Public

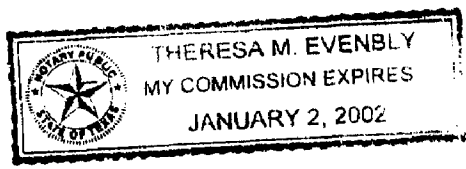
IN TESTIMONY WHEREOF, I have duly executed this Assignment on this 12th day of February, 1999.

Frank F. Chang
Frank F. CHANG

STATE OF TEXAS §
 §
COUNTY OF FORT BEND §

BEFORE ME, the undersigned authority, on this day personally appeared **Frank F. CHANG**, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that she executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 12th day of February, 1999.



Theresa Evenbly
Notary Public

IN TESTIMONY WHEREOF, I have duly executed this Assignment on this 12th day of February, 1999.

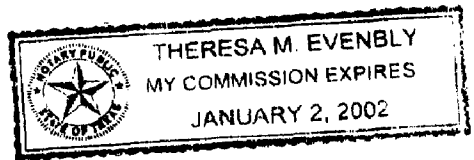
Diankui FU
Diankui FU

STATE OF TEXAS §
 §
COUNTY OF FORT BEND §

BEFORE ME, the undersigned authority, on this day personally appeared **Diankui FU**, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that she executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 12th day of February, 1999.

Theresa Evenbly
Notary Public



IN TESTIMONY WHEREOF, I have duly executed this Assignment on this
23rd day of March, 1999.

JM. Davison

Jonathan Mark DAVISON

IN THE PRESENCE OF:

Philippe DRECO

Witness Name EATC Manager
Witness Address: Dowell Westhill
Aberdeen AB32 6TA UK

Date: March 23, 1999

Alain FERRI

Witness Name
Witness Address: Dowell Westhill
Aberdeen AB32 6TA UK.

Date: March 23, 1999

IN TESTIMONY WHEREOF, I have duly executed this Assignment on this
23rd day of March, 1999.

Elizabeth Whiteford Angus

Elizabeth Whiteford Angus MORRIS

IN THE PRESENCE OF:

Philippe DRECO

Witness EATC Manager
Witness Address: Dowell Westhill
Aberdeen AB32 6TA UK

Date: March 23, 1999

Alain FERRI

Witness
Witness Address: Dowell Westhill
Aberdeen AB32 6TA UK

Date: March 23, 1999

IN TESTIMONY WHEREOF, I have duly executed this Assignment on this 18th day of March, 1999.

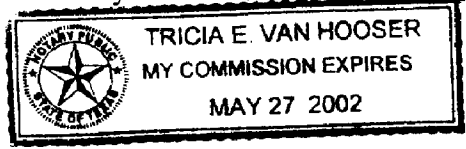
[Handwritten Signature]

Anieke WIERENGA
Antje M. *[Handwritten]*

STATE OF TEXAS §
 §
COUNTY OF FORT BEND §

BEFORE ME, the undersigned authority, on this day personally appeared **Anieke WIERENGA**, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that she executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 18 day of March, 1999.



[Handwritten Signature]

Notary Public

IN TESTIMONY WHEREOF, I have duly executed this Assignment on this 12th day of February, 1999.

[Handwritten Signature]

Palathinkara S. VINOD

STATE OF TEXAS §
 §
COUNTY OF FORT BEND §

BEFORE ME, the undersigned authority, on this day personally appeared **Palathinkara S. VINOD**, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 12th day of February, 1999.

[Handwritten Signature]

Notary Public

