To the Assistant Commissioner for Patents: Please record the attached original documents or copy thereof.

1. NAME OF CONVEYING PARTY(IES):
   - William B. Underhill
   - Cengiz Esmersoy
   - Brian Clark
   - Jean-Michel Hache

2. NAME AND ADDRESS OF RECEIVING PARTY(IES):
   - Schlumberger Technology Corporation
   - 110 Schlumberger Drive
   - Sugar Land, Texas 77478

No additional names attached
No additional names & addresses attached

3. NATURE OF CONVEYANCE:
   ASSIGNMENT EXECUTION DATE: February 18 and 25, 2000

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 February 18 and 25, 2000.

   A. PATENT APPLICATION NO.(s)
   B. PATENT NO.(s)
   NO ADDITIONAL NUMBERS ATTACHED

   0 9/15148100

5. NAME AND ADDRESS FOR CORRESPONDENCE:
   - Schlumberger Technology Corporation
   - Attn: IP Counsel
   - 200 Gillingham Lane MD 200-9
   - Sugar Land, Texas 77478

6. TOTAL NUMBER OF APPLNS. & PATENTS INVOLVED: 1

7. TOTAL FEE (37 CFR 3.41) $40.00
   CHARGE TO DEPOSIT ACCOUNT

8. DEPOSIT ACCOUNT NO. 19-0610
   (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.

   Steven L. Christian, Reg. No. 38,106 (Signature)
   2-28-00 (Date)

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

04/05/2000 DNCHEN 00000191 190610 09514866
01 FC:581 (40.00)

PATENT
REEL: 010653 FRAME: 0137
ASSIGNMENT

WHEREAS, the undersigned inventors hereinafter referred to as the "Inventors" each said Inventor's address being listed below:

William B. Underhill, citizen of the USA, whose post office address is 1703 Wind Trace Court, Sugar Land, Texas 77479 USA

Cengiz Esmersoy, citizen of the USA, whose post office address is 3815 Palmer Court, Sugar Land, Texas 77479 USA

Brian Clark, citizen of the USA, whose post office address is 86 Greensward Lane, Sugar Land, Texas 77479 USA

Jean-Michel Hache, citizen of France, whose post office address is 3515 Shadow Bayou Court, Houston, Texas 77082 USA

have invented certain new and useful improvements in

METHOD AND APPARATUS FOR COMMUNICATION WITH A DOWNHOLE TOOL

as described and set forth in an application for Letters Patent of the United States of America, executed by us on the 25th day of February, 2000 (File No. 20.2733-CIP).

WHEREAS each of the undersigned persons warrants that no person other than these undersigned persons are inventors of the above-described invention;

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 2175, Houston, Texas 77252-2175) 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 undersigned the Inventors, 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, the entire right, title and interest throughout the world, in and to the above-described 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 said Inventors 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 said Inventors do hereby covenant and warrant that said Inventors 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 no said Inventors has executed and will execute any instruments in conflict herewith.

AND said Inventors, for the conditions aforesaid, do hereby covenant and agree to and with the said COMPANY, its successors and assigns, that each Inventor, his or her 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 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 WITNESS WHEREOF, I, William B. Underhill, have hereunto set my hand and seal this 18 day of February, 2000.

William B. Underhill
(signature of Inventor)

(L. S.)

State of Texas
County of Fort Bend

BEFORE ME this 18th day of February, 2000, personally appeared William B. Underhill, 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.

Pam Rahmatdoost
Notary Public

SEAL

PATENT
REEL: 010653 FRAME: 0139
IN WITNESS WHEREOF, I, Cengiz Esmersoy, have hereunto set my hand and seal this 25th day of February, 2000.

(L.S.)

State of Texas
County of Fort Bend

BEFORE ME this 25th day of February, 2000, personally appeared Cengiz Esmersoy, 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.

[Seal]

PAMELA N. RAHMATDOOST
NOTARY PUBLIC, STATE OF TEXAS
MY COMMISSION EXPIRES JAN. 5, 2002

Notary Public

IN WITNESS WHEREOF, I, Brian Clark, have hereunto set my hand and seal this 18th day of February, 2000.

(L.S.)

State of Texas
County of Fort Bend

BEFORE ME this 18th day of February, 2000, personally appeared Brian Clark, 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.

[Seal]

PAMELA N. RAHMATDOOST
NOTARY PUBLIC, STATE OF TEXAS
MY COMMISSION EXPIRES JAN. 5, 2002

Notary Public
IN WITNESS WHEREOF, I, Jean-Michel Hache, have hereunto set my hand and seal this
17th day of February 2000.

[Signature]

(L. S.)

State of Texas

County of Fort Bend

BEFORE ME this 17th day of February 2000, personally appeared Jean-Michel Hache, 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.

[Signature]
Notary Public

SEAL

[Stamp]

PAMELA N. RAHMADDOOST
NOTARY PUBLIC, STATE OF TEXAS
MY COMMISSION EXPIRES JAN. 5, 2002

RECORDED: 02/28/2000

PATENT
REEL: 010653 FRAME: 0141