

6-7-00

FORM PTO-1619A  
Expires 06/30/99  
OMB 0651-0027

06-21-2000

U.S. Department of Commerce  
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1611 U.S. PTO  
09/590657  
06/07/00

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Assignment  Security Agreement

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Conveying Party(ies)

Mark if additional names of conveying parties attached

Name (line 1) Bombay, Bart J. Execution Date: Month 06 Day 06 Year 2000

Name (line 2) \_\_\_\_\_

Second Party  
Name (line 1) Clark, Jr., Lloyd D. Execution Date: Month 06 Day 06 Year 2000

Name (line 2) \_\_\_\_\_

09590657

Receiving Party

Mark if additional names of receiving parties attached

Name (line 1) Schlumberger Technology Corporation

Name (line 2) a corporation of Texas

Address (line 1) 8311 North FM 620

Address (line 2) \_\_\_\_\_

Address (line 3) Austin Texas USA 78726  
City State/Country Zip Code

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PATENT  
REEL: 010858 FRAME: 0718

**Correspondent Name and Address**

Area Code and Telephone Number

512-331-3748

Name Pehr B. Jansson

Address (line 1) Schlumberger Austin Technology Center

Address (line 2) Intellectual Property Law Department

Address (line 3) 8311 North FM 620

Address (line 4) Austin, TX 78726

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

# 4

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

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Patent Application Number(s)

Patent Number(s)

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<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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If this document is being filed together with a new Patent Application, enter the date the patent application was

Month Day Year  
06 07 2000

**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.

# 1

**Fee Amount**

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

40.00

Method of Payment:

Enclosed

Deposit Account

Deposit Account

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

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Pehr B. Jansson

Name of Person Signing

Signature

June 7, 2000

Date

A S S I G N M E N T

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, do hereby:

SELL, ASSIGN AND TRANSFER to SCHLUMBERGER TECHNOLOGY CORPORATION (the "Assignee"), a corporation of Texas having a place of business at 8311 North FM 620, Austin, TX 78726 (P.O. Box 200015, Austin, TX 78720-0015) the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned concurrently herewith and is entitled METHOD AND APPARATUS FOR TRANSMISSION OF DATA ON MULTIPLE PROPAGATION MODES WITH FAR-END CROSS-TALK CANCELLATION, such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

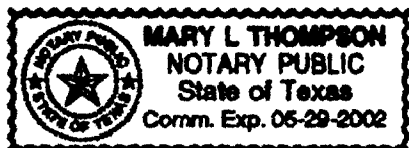
COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

the undersigned and extend to the successors, assigns and nominees of the Assignee.

(Signature) *[Signature]* Date 6/6/2000  
 Name: Bart J. Bombay  
 STATE OF TEXAS )  
 ) ss.  
 COUNTY OF TRAVIS )

BEFORE ME, the undersigned authority, on this 6th day of June, 2000, personally appeared Lloyd D. Clark, Jr. ~~known to me~~ ~~or~~ proved to me through TX DL # 07536667 Exp. 5-11-05 to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.



Mary L Thompson  
Notary or Consular Officer

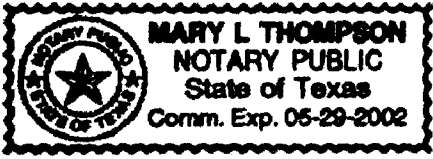
[SEAL]

(Signature) Lloyd D. Clark, Jr.  
Name: Lloyd D. Clark, Jr.

Date 6/6/00

STATE OF TEXAS )  
COUNTY OF TRAVIS ) ss.

BEFORE ME, the undersigned authority, on this 6th day of June, 2000, personally appeared Lloyd D. Clark, Jr. ~~known to me (or proved to me through TYDL\*12187265, Exp. 4-8-03)~~ to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.



Mary L. Thompson  
Notary or Consular Officer

SCHLUMBERGER AUSTIN TECHNOLOGY CENTER  
Intellectual Property Law Department  
8311 North FM 620  
Austin, Texas 78726

[SEAL]

Sole/Joint, Concurrent with Application

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Date of Deposit JUNE 7, 2000  
I hereby certify under 37 CFR 1.10 that this correspondence is being deposited with the United States Postal Service as "Express Mail Post Office to Addressee" with sufficient postage on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Signature Mary L. Thompson

Typed or printed name of person signing this certificate  
MARY L. THOMPSON