

05-30-2003



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RE

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U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

Tab settings

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

1. Name of conveying party(ies): Mohan Panga, Vemuri Balakotaiah, Murtaza Ziauddin

5-21-03

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance: Assignment, Merger, Security Agreement, Change of Name, Other

Execution Date: May 20, 2003

2. Name and address of receiving party(ies) Name: Schlumberger Technology Corporation Internal Address:

Street Address: 110 Schlumberger Drive

City: Sugar Land State: TX Zip: 77478

Additional name(s) & address(es) attached? Yes No

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: May 21, 2003

10442584

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Catherine MENES

Internal Address: IP Dept., Well Stimulation

Street Address: 110 Schlumberger Drive, MD1

City: Sugar Land State: TX Zip: 77478

6. Total number of applications and patents involved:

7. Total fee (37 CFR 3.41) \$ 40.00

Enclosed, Authorized to be charged to deposit account

8. Deposit account number:

04-1579 (56.0675)

DO NOT USE THIS SPACE

9. Signature.

Catherine MENES Name of Person Signing

Signature

May 21, 2003 Date

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

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

05/29/2003 ECOOPER 00000162 041579 10442584

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Vertical stamp: jce79 U.S. PTO 10/442584 05/21/03

PATENT REEL: 014105 FRAME: 0142

ASSIGNMENT

WHEREAS, we,

1. **Mohan Panga**, a citizen of India, whose post office address is 2400 South Loop West #1309, Houston, Texas 77054 US;
2. **Vemuri Balakotaiah**, a citizen of the United States, whose post office address is 531 Wisteria Street, Bellaire, Texas 77401 US;
3. **Murtaza Ziauddin**, a citizen of Pakistan, whose post office address is 2711 Miller Falls Court, Richmond, Texas 77469 US;

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

Modeling Simulation and Comparison of Models For Wormhole Formation During Matrix Stimulation of Carbonates

for which we have described and set forth in an application for Letters Patent of the United States of America:

for which an application for a united States patent was executed on May 21, 2003, attached herewith. Docket No. 56.0675

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 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 20th day of May, 2003.

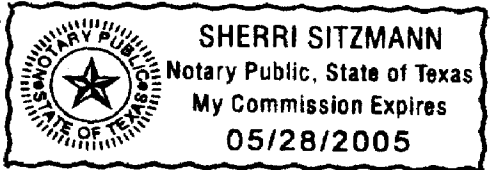
Mohan Panga
Mohan Panga

STATE of TEXAS §
 §
COUNTY of FT. BEND §

Subscribed and sworn to before me this 20th day of May, 2003.

Sherrri Sitzmann
Notary Public in and for the State of Texas

My Commission Expires: May 28, 2005



IN TESTIMONY WHEREOF, I have duly executed this Assignment on this 20th day of May, 2003.

Vemuri Balakotaiah
Vemuri Balakotaiah

STATE of TEXAS §
COUNTY of FT. BEND §

Subscribed and sworn to before me this 20th day of May, 2003.

Sherrit Sitzmann
Notary Public in and for the State of Texas

My Commission Expires: May 28, 2005



IN TESTIMONY WHEREOF, I have duly executed this Assignment on this 20th day of May, 2003.

Murtaza Ziauddin
Murtaza Ziauddin

STATE of TEXAS §
COUNTY of FT. BEND §

Subscribed and sworn to before me this 20th day of May, 2003.

Sherrit Sitz
Notary Public in and for the State of Texas

My Commission Expires: May 28, 2005

