

Form PTO-1595 (Rev. 03/05)  
OMB No. 0651-0027 (exp. 6/30/2005)

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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

### 1. Name of conveying party(ies)

COSTE, EMMANUEL;  
CHO, BRIAN W.;  
PRIMIERO, PAOLO

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

### 3. Nature of conveyance/Execution Date(s):

E. Coste...Mar. 27, '09,  
Execution Date(s) B. Cho, P. Primiero...Mar. 30, '09

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

### 2. Name and address of receiving party(ies)

Name: Schlumberger Technology Corporation

Internal Address: MD 1

200 Gillingham Lane

Street Address: MD 1

200 Gillingham Lane

City: Sugar Land

State: TX

Country: \_\_\_\_\_ Zip: 77478

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

### 4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

12/411,395

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: \_\_\_\_\_

Internal Address: Intellectual Property Law

Schlumberger K.K.

Street Address: 2-2-1 Fuchinobe, Sagamihara-shi

Kanagawa-ken 229-0006 Japan

City: \_\_\_\_\_

State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone Number: 81-42-759-5202

Fax Number: 81-42-753-7649

Email Address: MAbrell@slb.com

### 6. Total number of applications and patents involved: 1

### 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40

- ☐ Authorized to be charged by credit card  
☒ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

### 8. Payment Information

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number 50-1122

Authorized User Name Matthias Abrell

### 9. Signature:

Matthias Abrell  
Signature

4/30/09  
Date

Matthias Abrell, #47,377

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 6

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

26.0521 US

CH \$40.00 501122 12411395

700406159

PATENT  
REEL: 022581 FRAME: 0513

ATTORNEY DOCKET NO. 26.0521 US

ASSIGNMENT

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

**Emmanuel Coste**, a citizen of France, whose post office address is Mogens Thorsens Gate 9 0264 Oslo Norway;

**Brian W. Cho**, a citizen of USA, whose post office address is Kirin Bayside Village B-14, 15-38 -3 Shin-Yamashita, Naka-ku, Yokohama-shi, Kanagawa-ken, 231-0801, Japan;

**Paolo Primiero**, a citizen of Italy, whose post office address is Via XXX Ottobre, 44, 33100 Udine, Italy

Has/have invented certain new and useful improvements in

**METHOD AND APPARATUS FOR DETECTING ACOUSTIC ACTIVITY IN A  
SUBSURFACE FORMATION**

as described and set forth in an application for Letters Patent of the United States of America, filed on March 26, 2009 under Attorney Docket No. 26.0521 US assigned serial # 12/411,395.

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

AND WHEREAS, the "**COMPANIES**", listed in **Schedule A**, are desirous of acquiring or confirming their 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 **as outlined in Schedule A**;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that the undersigned 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 COMPANIES, their 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 **COMPANIES**, their

## ATTORNEY DOCKET NO. 26.0521 US

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 COMPANIES, their 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 COMPANIES, their 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 COMPANIES, their successors and assigns, may be required or necessary in this or in any foreign country more effectually to secure to and vest in said COMPANIES, their 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 27 day of MARCH, 2009.

COSTE E

Name: Emmanuel Coste

Witnesses:

Signature

Name:

Address:

U  
N. GUNSON  
A. GEDN DALLSGT 10  
0678 OSLO  
NORWAY

Date:

27/03/09

Signature

Name:

Address:

Lars Roennig  
LARS ROENNIG  
BAASTADVEIEN 108  
1387 ASKER  
NORWAY

Date:

27/3-2009

## ATTORNEY DOCKET NO. 26.0521 US

IN TESTIMONY WHEREOF, I have duly executed this Assignment on this 30 day of  
March, 2009.

  
Name: Brian W. Cho

Witnesses:

Signature

Name:

Address:

  
Setsuko Kawashima

5-3-25 Tamagawa-Gakuen

Machida-shi, Tokyo

194-0041 Japan


Date:

March 30 2009

Signature

Name:

Address:

  
Rira Tanaka

3-20-9-313 Nishi-Ikuta, Tama-ku,

Kawasaki-shi, Kanagawa-ken

214-0037 Japan

Date:

March 30 2009

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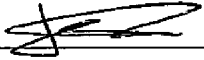
IN TESTIMONY WHEREOF, I have duly executed this Assignment on this 30<sup>th</sup> day of  
MARCH, 2009.



Name: Paolo Primiero

Witnesses:

Signature



Name:

JEAN-TARC DONADILLE

Date:

MARCH 30<sup>th</sup>, 2009

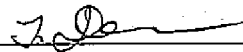
Address:

NESTA VILLA 15, AL-QUDS STREET

AL-KHOBAR 31952

SAUDI ARABIA

Signature



Name:

TIMOTHY DEAN

Date:

MARCH 30<sup>th</sup>, 2009

Address:

SCHLUMBERGER DHAHRAN CARBONATE RESEARCH

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AL-KHOBAR 31952, SAUDI ARABIA

ATTORNEY DOCKET NO. 26.0521 US

SCHEDULE A  
"COMPANIES"

***SCHLUMBERGER TECHNOLOGY B.V.***

Corporation of: the Netherlands

Located at: Parkstraat 83-89m 2514 JG The Hague, The Netherlands

Assignee for applications in: Albania, Argentina, Australia, Azerbaijan, Brunei, Bulgaria, Chad, Colombia, Czech Republic, Denmark, Equatorial Guinea, Faroe Islands, Germany, Greece, Hungary, Indonesia, Ireland, Israel, Italy, Kazakhstan, Korea, Kuwait, Lithuania, Malaysia, Mexico, Myanmar, New Zealand, Norway, Oman, Pakistan, Poland, Qatar, Romania, Russia, Slovakia, Slovenia, South Africa, Thailand, Trinidad, Tunisia, Turkey, Turkmenistan, Uzbekistan, Venezuela

***PRAD RESEARCH AND DEVELOPMENT LIMITED***

Corporation of: British Virgin Islands

Located at: P.O. Box 71, Craigmuir Chambers, Road Town, Tortola, British Virgin Islands

Assignee for applications in: Every country not specified

***SCHLUMBERGER CANADA LIMITED***

Corporation of: Canada

Located at: 525-3<sup>rd</sup> Avenue S.W., Calgary, Alberta, CA T2P 0G4

Assignee for applications in: Canada

***SCHLUMBERGER HOLDINGS LIMITED***

Corporation of: the Netherlands

Located at: PO Box 71, Craigmuir Chambers, Road Town, Tortola, BVI

Assignee for applications in: Great Britain, Japan, The Netherlands, The Netherlands Antilles, Saudi Arabia

***SCHLUMBERGER TECHNOLOGY CORPORATION***

Corporation of: USA

Located at: 200 Gillingham Lane, MD1, Sugar Land, Texas 77478 USA

Assignee for applications in: United States of America

***SERVICES PETROLIERS SCHLUMBERGER***

Corporation of: France

Located at: 42 rue Saint Dominique, 75007 Paris, FR

Assignee for applications in: France