

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5256875

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
TIMOTHY JONES	03/10/2017
NATHAN LAWRENCE	10/17/2018
GO FUJISAWA	05/11/2018
SHENG CHAO	04/06/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SCHLUMBERGER TECHNOLOGY CORPORATION
<b>Street Address:</b>	300 SCHLUMBERGER DRIVE
<b>City:</b>	SUGAR LAND
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	77478
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15511333
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Email:</b>	kdumas-scarber@slb.com
<b>Correspondent Name:</b>	KRISTINE DUMAS-SCARBER
<b>Address Line 1:</b>	10001 RICHMOND AVENUE
<b>Address Line 2:</b>	ROOM 4720
<b>Address Line 4:</b>	HOUSTON, TEXAS 77042
<b>ATTORNEY DOCKET NUMBER:</b>	IS13.4562-US-PCT
<b>NAME OF SUBMITTER:</b>	KRISTINE DUMAS-SCARBER
<b>SIGNATURE:</b>	/KRISTINE DUMAS-SCARBER/
<b>DATE SIGNED:</b>	11/29/2018
<b>Total Attachments: 7</b>	
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**Assignment**

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

Timothy Jones, a citizen of the United Kingdom;

Nathan Lawrence, a citizen of the United Kingdom;

Go Fujisawa, a citizen of Japan; and

Sheng Chao, a citizen of China;

Has/have invented certain new and useful improvements in

**MID-INFRARED SENSOR**

as described and set forth in an application identified as United Kingdom Application No. 1416257.2, (Docket No. IS13.4562-GB-NP) filed September 15, 2014. This assignment is effective as of September 15, 2014.

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,

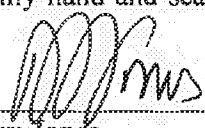
TO HAVE AND TO HOLD the same to the full end of the term or terms for which any and all such United States and foreign patents and grants may be issued on said invention, inventions or improvements.

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 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.

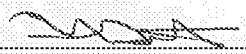
AND said Inventors do hereby covenant and warrant that said Inventors have full right to convey the entire right, title and interest herein assigned free and clear of all licenses, encumbrances and liens whatsoever, and that no said Inventors has executed and will execute any instruments in conflict 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 WITNESS WHEREOF I, Timothy Jones, have hereunto set my hand and seal this 10  
day of MARCH 2016. 7 PM

  
\_\_\_\_\_  
Timothy Jones

BE IT KNOWN, that Timothy Jones is known to us to be the individual described in this assignment, that on the aforementioned date, we were personally present and did see him/her sign and execute this assignment and that he/she acknowledged to us that he/she executed the same as his/her free act and deed for the uses and purposes therein set forth.

  
\_\_\_\_\_  
First Witness (Signature)

JULIA DORRATT.

75 TOLSE LANE

BURNWELL, CAMBRIDGE

CB25 0DF UK.

Post Office Address

Anna Bruce

\_\_\_\_\_  
Second Witness (Signature) ANNA BRUCE

94 Columbine Road, Ely,

Cambridgeshire CB6 3WN

United Kingdom

Post Office Address

IN WITNESS WHEREOF I, Nathan Lawrence, have hereunto set my hand and seal this 17  
day of OCTOBER, 2016. NL

N. S. L.  
Nathan Lawrence

BE IT KNOWN, that Nathan Lawrence is known to us to be the individual described in this assignment, that on the aforementioned date, we were personally present and did see him/her sign and execute this assignment and that he/she acknowledged to us that he/she executed the same as his/her free act and deed for the uses and purposes therein set forth.

V. S. Georgiadi  
First Witness (Signature)  
VICTORIA GEORGIADES

68 HIGH STREET,

LITTLE SHELFORD,

CAMBS CB22 5ES

Post Office Address

K. L. McQuinn  
Second Witness (Signature)

K. L. MCQUINN

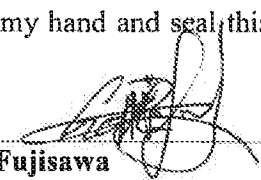
51A LONDON R.D. HARSTON

CAMBS CB22 7QJ

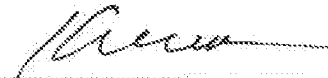
Post Office Address

IN WITNESS WHEREOF I, Go Fujisawa, have hereunto set my hand and seal this 11  
day of May, 2018.

8 AF.

  
Go Fujisawa

BE IT KNOWN, that Go Fujisawa is known to us to be the individual described in this assignment, that on the aforementioned date, we were personally present and did see him/her sign and execute this assignment and that he/she acknowledged to us that he/she executed the same as his/her free act and deed for the uses and purposes therein set forth.

  
First Witness (Signature)

Rina Tanaka  
Second Witness (Signature)

5-3-25 Tamagawa-Gakuen 20-9-313 Nishi-Ikuta

Machida-shi, Tokyo

3-chome, Kawasaki-shi

194-0041 Japan

Post Office Address

Kanagawa-Ken 214-0037 Japan

Post Office Address

IN WITNESS WHEREOF I, Sheng Chao, have hereunto set my hand and seal this 6 day of April, 2016.7

S. Chao

Sheng Chao  
Sheng Chao

BE IT KNOWN, that Sheng Chao is known to us to be the individual described in this assignment, that on the aforementioned date, we were personally present and did see him/her sign and execute this assignment and that he/she acknowledged to us that he/she executed the same as his/her free act and deed for the uses and purposes therein set forth.

[Signature]

First Witness (Signature)

41 Clivenden Close

Cambridge CB4 3LX

UK

Post Office Address

Anna Bruce

Second Witness (Signature) ANNA BRUCE

94 Columbine Rd, Ely,

Cambridgeshire CB6 3WN

United Kingdom

Post Office Address

**Schedule A**  
**"COMPANIES"**

**SCHLUMBERGER TECHNOLOGY CORPORATION**

Corporation of: United States of America

Located at: 300 Schlumberger Drive, Sugar Land, Texas 77478 U.S.A.

Assignee for applications in: United States of America

**SCHLUMBERGER CANADA LIMITED**

Corporation of: Canada

Located at: 125 - 9 Avenue SE, Calgary, Alberta T2G 0P6

Assignee for applications in: Canada

**SERVICES PETROLIERS SCHLUMBERGER**

Corporation of: France

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

Assignee for applications in: France

**SCHLUMBERGER HOLDINGS LIMITED**

Corporation of: British Virgin Islands

Located at: P.O. Box 71, Craigmuir Chambers, Road Town, 1110 Tortola, British Virgin Islands

Assignee for applications in: Japan, The Netherlands, United Kingdom

**PRAD RESEARCH AND DEVELOPMENT LIMITED**

Corporation of: British Virgin Islands

Located at: P.O. Box 71, Craigmuir Chambers, Road Town, 1110 Tortola, British Virgin Islands

Assignee for applications in: Angola, Bahrain, Bangladesh, Benin, Cambodia, Cameroon, Chad, China, Congo, Gabon, Ghana, Guinea-Bissau, India, Ivory Coast, Jordan, Libya, Mauritania, Morocco, Mozambique, Myanmar, Namibia, Nigeria, Philippines, Senegal, Sudan, Syria, Taiwan, Togo, UAE, Vietnam, Zaire.

**SCHLUMBERGER TECHNOLOGY B.V.**

Corporation of: the Netherlands

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

Assignee for applications in: GCC and all other countries not otherwise listed.