505124725 10/03/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5171487

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PANTELIS GEORGIOU	09/05/2018
SAMUEL REED	08/11/2017
YAN LIU	09/17/2018
CHRISTOFER TOUMAZOU	11/09/2017
CHUNG-PEI OU	10/02/2018

RECEIVING PARTY DATA

Name:	DNAE GROUP HOLDINGS LIMITED
Street Address:	UGLI CAMPUS BLOCK C, 56 WOOD LANE
City:	LONDON
State/Country:	UNITED KINGDOM
Postal Code:	W12 7SB

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15594994

CORRESPONDENCE DATA

Fax Number: (703)991-7071

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.

Phone: 7037408322

Email: PATENT@MAIERANDMAIER.COM

Correspondent Name: MAIER & MAIER, PLLC **Address Line 1:** 345 S. PATRICK ST

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	01700003COA
NAME OF SUBMITTER:	CHRISTOPHER J. MAIER
SIGNATURE:	/Christopher J. Maier/
DATE SIGNED:	10/03/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).
	•

Total Attachments: 5

PATENT REEL: 047055 FRAME: 0863

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source=Georgiou#page1.tif
source=Reed#page1.tif
source=Liu#page1.tif
source=Toumazou#page1.tif
source=Ou#page1.tif

Title of Invention: CHEMICAL SENSING DEVICE
<u>DECLARATION</u>
As a below named inventor, I hereby declare that:
This declaration is directed to:
The attached application, or United States application or PCT international application number 15/594,994, filed on May 15, 2017
United States application or PCT international application number 15/594,994, filed on May 15, 2017
The above-identified application was made or authorized to be made by me. I believe I am the original inventor or an original joint inventor of a claimed invention in the application. I have reviewed and understood the contents of the above-identified application, including the claims, and any claim amendments made in the application. I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR 1.56.
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.
ASSIGNMENT
WHEREAS, I, Pantelis GEORGIOU, whose post office address is Flat 3, 143 Finborough Road, London, SW10 9AW, hereinafter referred
to as ASSIGNOR, am the owner of useful improvements in CHEMICAL SENSING DEVICE (hereinafter referred to as the INVENTION) for
which the above application for United States Letters Patent was filed on: May 15, 2017 Serial No.: 15/594,994; or established by PCT
International Patent Application No.:filed:
designating the United States of America;
WHEREAS, DNAE GROUP HOLDINGS LIMITED, whose post office address is Ugli Campus Block C, 56 Wood Lane, W12 7SB
London, GB hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to the same in the United
States;
NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I, ASSIGNOR, by these presents do
sell, assign and transfer unto said Assignee, the entire right, title, and interest in and to said INVENTION and application throughout the
United States of America, including any and all Letters Patent granted on any division, continuation, continuation-in-part and reissue of said
application.
ALSO, Assignor hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and
maintenance of said application or any other patent application(s) in the United States for said INVENTION, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said INVENTION, all without further consideration. ASSIGNOR also agrees,
without further consideration and at ASSIGNEE's expense, to identify and communicate to ASSIGNEE at ASSIGNEE's request documents and
information concerning the Invention that are within Assignor's possession or control, and to provide further assurances and testimony on
behalf of Assignee that lawfully may be required of Assignor in respect of the prosecution, maintenance and defense of any patent
application or patent encompassed within the terms of this instrument. Assignor's obligations under this instrument shall extend to
Assignor's heirs, executors, administrators and other legal representatives.
ALSO, ASSIGNOR hereby authorizes and requests the Director of the U.S. Patent and Trademark office to issue any and all Letters Patent
referred to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE's sole use and behoof,
and for the use and behoof of Assignee's legal representatives and successors, to the full end of the term for which such Letters Patent may
be granted, as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made.
ASSIGNOR authorizes any member of the firm of Maier & Maier, PLLC to insert or complete any information in this document needed
to effect its recordal in the U.S. Patent and Trademark Office.
A A A A A A A A A A A A A A A A A A A
Legal Name of Inventor: Pantelis GEORGIOU
\times $Umi2$ \times $5/9/18$
Inventor's Signature Date
TITACHICA & CAPUMINA

Title of Invention: CHEMICAL SENSING DEVICE
DECLARATION
As a below named inventor, I hereby declare that:
This declaration is directed to:
The attached application, or 15/504 004 states May 15 2017
United States application or PCT international application number 15/594,994, filed on May 15, 2017
The above-identified application was made or authorized to be made by me. I believe I am the original inventor or an original joint inventor of a claimed invention in the application. I have reviewed and understood the contents of the above-identified application, including the claims, and any claim amendments made in the application. I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR 1.56.
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both. ASSIGNMENT
WHEREAS, I, Samuel REED, whose post office address is Ugli Campus Block C, 56 Wood Lane, W12 78B London, GB, hereinafter
referred to as Assignor, am the owner of useful improvements in CHEMICAL SENSING DEVICE (hereinafter referred to as the
Invention) for which the above application for United States Letters Patent was
filed on: May 15, 2017 Serial No.: 15/594,994 or
established by PCT International Patent Application No.:filed:
designating the United States of America;
WHEREAS, DNAE GROUP HOLDINGS LIMITED, whose post office address is Ugli Campus Block C, 56 Wood Lane, W12 75B
London, GB hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to the same in the United
States;
NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I, ASSIGNOR, by these presents do
sell, assign and transfer tinto said ASSIGNEE, the entire right, title, and interest in and to said INVENTION and application throughout the
United States of America, including any and all Letters Patent granted on any division, communition, continuation-in-part and reissue of sai application.
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without further consideration and at ASSIGNEE'S expense, to identify and communicate to ASSIGNEE at ASSIGNEE's request documents and
information concerning the INVENTION that are within ASSIGNOR'S possession or control, and to provide further assurances and testimony of
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referred to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE'S sole use and behoof;
and for the use and behoof of ASSIGNEE'S legal representatives and successors, to the full end of the term for which such Letters Patent may
be granted, as fully and entirely as the same would have been held by ASSIONOR had this assignment and sale not been made.
ASSIGNOR authorizes any member of the firm of Maier & Maier, PLLC to insert or complete any information in this document needed
to effect its recordal in the U.S. Patent and Trademark Office.
Legal Name of Igventor: Samuel REE
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× Mulling x 11 August 2017
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DECLARATION This declaration is directed to: The attached application, or United States application or PCT international application number 15/594,994, filed on May 15, 2017 The above-identified application was made or authorized to be made by me. I believe I am the original inventor or an original joint inventor of a claimed invention in the application. I have reviewed and understood the contents of the above-identified application including the claims, and any elatin amendments made in the application. Theorem with the properties of the above-identified application including the claims, and any elatin amendments made in the application. I have reviewed and understood the contents of the above-identified application including the claims, and any elatin made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both. ASSIGNMENT WHEREAS, I, Yan LIU, whose post office address is *Butt Campus Block C. 56 Wood Lane, W12-78B-London, GB, hereinafter referred to as ASSIGNOR, and the above application for United States Letters Patent was filed on: May 15, 2017 Serial No: 15/594,994 WHEREAS, DNAE GROUP HOLDINGS LIMITED, whose post office address is *Ugit Campus Block C. 56 Wood Lane, W12-78B-London, GB hereinafter referred to as ASSIGNER, it desirous of acquiring the entire right, title and interest in and to the same in the United States of America; WHEREAS, DNAE GROUP HOLDINGS LIMITED, whose post office address is *Ugit Campus Block C. 56 Wood Lane, W12-78B-London, GB hereinafter referred to as ASSIGNER, it desirous of acquiring the entire right, title and interest in and to the same in the United States of America; NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I, ASSIGNOR, by these presents do self, assign and transfer unto said ASSIGNER, the entire right, title, and interest in and to said INVENTION and application throughout the United States of America; including any and all Letters Patent greated o
As a below named inventor, I hereby declare that: This declaration is directed to: The attached application, or United States application or PCT international application number 15/594,994, filed on May 15, 2017 The above-identified application was made or authorized to be made by me. I believe I am the original inventor or an original joint inventor of a claimed invention in the application. I have reviewed and understood the contents of the above-identified application, including the claims, and any claim amendments made in the application. I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR 1.56. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both. ASSIGNMENT WHEREAS, I, Yan LIU, whose post office address is UEH Campus Block C, 56-Wood Lane; W12-75B Landon; GB, hereinafter referred to as ASSIGNOR, and the owner of useful improvements in CHEMICAL SENSING DEVICE (hereinafter referred to as the INVENTION) for which the above application for United States Letters Patent was filed on: May 15, 2017 Serial No.: 15/594,994 ; or established by PCT International Patent Application No.: filed: designating the United States of America; WHEREAS, DNAE GROUP HOLDINGS LIMITED. whose post office address is Ugli Campus Block C, 56 Wood Lane, W12-75B London, GB hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to the same in the United States of America; NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I, ASSIGNOR, by these presents do sell, assign and transfer unto said ASSIGNEE, the entire right, title, and interest in and to said Invention and application throughout the United States of America, including any and all Letters Patent granted on any division, continuation, continuation-in-part and reissue of said application. ALSO, ASSIGNOR
The attached application, or United States application or PCT international application number 15/594,994, filed on May 15, 2017 The above-identified application was made or authorized to be made by me. I believe I am the original inventor or an original joint inventor of a claimed invention in the application. I have reviewed and understood the contents of the above-identified application, including the claims, and any claim amendments made in the application. I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR 1.56. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or unprisonment of not more than five (5) years, or both. ASSIGNMENT WHEREAS, I, Yan LIU, whose post office address is Usti Campus Block C: 56 Wood Lane, W12-75B-London, GB, hereinafter referred to as ASSIGNOR, am the owner of useful improvements in CHEMICAL SENSING DEVICE (hereinafter referred to as the Invention) for which the above application for United States Letters Patent was filed on: May 15, 2017 Serial No.: 15/594.994 Serial No.: 15/594.994 WHEREAS, DNAE GROUP HOLDINGS LIMITED, whose post office address is Usti Campus Block C, 56 Wood Lane, W12 75B-London, GB hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to the same in the United States; NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I, ASSIGNOR, by these presents do sell, assign and transfer unto said ASSIGNEE, the entire right, title, and interest in and to said Invention and application throughout the United States of America, including any and all Letters Patent granted on any division, continuation, continuation-in-part and reissue of said application. ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent application(s) in
United States application or PCT international application number 15/594,994, filed on May 15, 2017 The above-identified application was made or authorized to be made by me. I believe I am the original inventor or an original joint inventor of a claimed invention in the application. I have reviewed and understood the contents of the above-identified application, including the claims, and any claim amendments made in the application. I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR 1.56. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both. ASSIGNMENT WHEREAS, I, Yan LIU, whose post office address is Usit Campus Block C. 56 Wood Lane, W12-78b-londom, GB. hereinafter referred to as ASSIGNOR, and the owner of useful improvements in CHEMICAL SENSING DEVICE (hereinafter referred to as the INVENTION) for which the above application for United States Letters Patent was filed on: May 15, 2017 Serial No.: 15/594,994 setablished by PCT International Patent Application No.: filed: designating the United States of America; WHEREAS, DNAE GROUP HOLDINGS LIMITED, whose post office address is Ugli Campus Block C, 56 Wood Lane, W12-78B. London, GB hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to the same in the United States; NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I, ASSIGNOR, by these presents do sell, assign and transfer unto said ASSIGNEE, it he entire right, title, and interest in and to said Invention and application. ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent application(s) in the United States for said Invention, including additional documents that may be required to affirm the right
The above-identified application was made or authorized to be made by me. I believe I am the original inventor or an original joint inventor of a claimed invention in the application. I have reviewed and understood the contents of the above-identified application, including the claims, and any claim amendments made in the application. I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR 1.56. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both. ASSIGNMENT LONDON WHEREAS, I, Yan LIU, whose post office address is Usit Gampus Block C.55 Wood Lane; W12-75B London; GB, hereinafter referred to as ASSIGNOR, am the owner of useful improvements in CHEMICAL SENSING DEVICE (hereinafter referred to as the Invention) for which the above application for United States Letters Patent was filed on: May 15, 2017 Serial No.: 15/594.994 Serial No.: 15/594.994 WHEREAS, DNAE GROUP HOLDINGS LIMITED, whose post office address is Usil Campus Block C, 56 Wood Lane, W12 75B London, GB hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to the same in the United States; NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I, ASSIGNOR, by these presents do sell, assign and transfer unto said ASSIGNEE, the entire right, title, and interest in and to said Invention, and application throughout the United States of America, including any and all Letters Patent granted on any division, continuation, continuation—in-part and reissue of said application. ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent application(s) in the United States for said Invention, including additional documents that may be required to affirm the rights of ASSIGNE
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WHEREAS, I, Yan LIU, whose post office address is Ugit Campus Block C: 56 Wood Lane: W12-7SB-Lendon; GB, hereinafter referred to as ASSIGNOR, am the owner of useful improvements in CHEMICAL SENSING DEVICE (hereinafter referred to as the Invention) for which the above application for United States Letters Patent was filed on: May 15, 2017 Serial No.: 15/594,994; or established by PCT International Patent Application No.:
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London, GB hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to the same in the United States; NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I, ASSIGNOR, by these presents do sell, assign and transfer unto said ASSIGNEE, the entire right, title, and interest in and to said Invention and application throughout the United States of America, including any and all Letters Patent granted on any division, continuation, continuation-in-part and reissue of said application. ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filling, prosecution and maintenance of said application or any other patent application(s) in the United States for said Invention, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said Invention, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE's expense, to identify and communicate to ASSIGNEE at ASSIGNEE's request documents and information concerning the Invention that are within ASSIGNOR's possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR's obligations under this instrument shall extend to ASSIGNOR's heirs, executors, administrators and other legal representatives. ALSO, ASSIGNOR hereby authorizes and requests the Director of the U.S. Patent and Trademark office to issue any and all Letters Patent
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and for the use and behoof of ASSIGNEE's legal representatives and successors, to the full end of the term for which such Letters Patent may
be granted, as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made.
ASSIGNOR authorizes any member of the firm of Maier & Maier, PLLC to insert or complete any information in this document needed
to effect its recordal in the U.S. Patent and Trademark Office.
egal Name of Inventor; Yan LIU
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
nventor's Signature Date
2018/09/17

Title of Invention: CHEMICAL SENSING DEVICE
<u>DECLARATION</u>
As a below named inventor, I hereby declare that:
This declaration is directed to:
The attached application, or United States application or PCT international application number 15/594,994, filed on May 15, 2017
Office States appreadon of FeT international appreadon number 157.594,594, filed on 1714y 15, 2017
The above-identified application was made or authorized to be made by me. I believe I am the original inventor or an original joint inventor of a claimed invention in the application. I have reviewed and understood the contents of the above-identified application, including the claims, and any claim amendments made in the application. I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR 1.56.
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.
ASSIGNMENT
WHEREAS, I, Christofer TOUMAZOU, whose post office address is Ugli Campus Block C, 56 Wood Lane, W12 7SB London, GB,
hereinafter referred to as ASSIGNOR, am the owner of useful improvements in CHEMICAL SENSING DEVICE (hereinafter referred to as
INVENTION) for which the above application for United States Letters Patent was
filed on: May 15, 2017 Serial No.: 15/594,994; or
established by PCT International Patent Application No.: filed:
designating the United States of America;
WHEREAS, DNAE GROUP HOLDINGS LIMITED, whose post office address is Ugli Campus Block C, 56 Wood Lane, W12 7SB
London, GB hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to the same in the United
States;
NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I, ASSIGNOR, by these presents do
sell, assign and transfer unto said Assignee, the entire right, title, and interest in and to said INVENTION and application throughout the
United States of America, including any and all Letters Patent granted on any division, continuation, continuation-in-part and reissue of said
application.
ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and
maintenance of said application or any other patent application(s) in the United States for said INVENTION, including additional documents
that may be required to affirm the rights of ASSIGNEE in and to said INVENTION, all without further consideration. ASSIGNOR also agrees,
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be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.
ASSIGNOR authorizes any member of the firm of Maier & Maier, PLLC to insert or complete any information in this document needed
to effect its recordal in the U.S. Patent and Trademark Office.
Legal Name of Inventor: Christofer TOUMAZOU
x November 9, 2017
Inventor's Signatule Date

THE OF INVENTION: CHEMICAL SENSING DEVICE	
DECLARATION	
As a below named inventor, I hereby declare that:	
This declaration is directed to:	
The attached application, or Value Control Contro	
United States application or PCT international application number <u>15/594,994</u> , filed on <u>May 15, 2017</u>	
The above-identified application was made or authorized to be made by me. I believe I am the original inventor or an original joint	
inventor of a claimed invention in the application. I have reviewed and understood the contents of the above-identified application,	
including the claims, and any claim amendments made in the application. I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR 1.56.	
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.	
ASSIGNMENT 263 River Valley Road #03-05 23	38309
WHEREAS, I, Chung-Pei OU, whose post office address is Ugli Campus Block C. 56 Wood Lane, W12 7SB London, GB, hereinafter	Singa
referred to as ASSIGNOR, am the owner of useful improvements in CHEMICAL SENSING DEVICE (hereinafter referred to as the	8-10-2
INVENTION) for which the above application for United States Letters Patent was	8-10-2
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designating the United States of America;	
WHEREAS, <u>DNAE GROUP HOLDINGS LIMITED</u> , whose post office address is <u>Ugli Campus Block C, 56 Wood Lane, W12 7SB</u>	
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Legal Name of Inventor: <u>Chung-Pei OU</u>	-
x CPP1 x 2018-10-2	
Inventor's Signature Date	-

RECORDED: 10/03/2018