

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3371993

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
CHARLES MARK PHILLIPS	01/29/2013
BARBARA MARSHIK-GEURTS	01/29/2013
LEONARD I. KAMLET	01/29/2013
MARTIN L. SPARTZ	03/18/2013
VIDI SAPTARI	02/06/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MKS Instruments, Inc.
<b>Street Address:</b>	2 Tech Drive
<b>Internal Address:</b>	Suite 201
<b>City:</b>	Andover
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	01810
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14637094
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)526-9899
<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>Phone:</b>	617-526-9600
<b>Email:</b>	sallen@proskauer.com
<b>Correspondent Name:</b>	PROSKAUER ROSE LLP
<b>Address Line 1:</b>	ONE INTERNATIONAL PLACE
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02110
<b>ATTORNEY DOCKET NUMBER:</b>	ASX-155CPC1
<b>NAME OF SUBMITTER:</b>	BRENDA FLOCKHART-SHANKS
<b>SIGNATURE:</b>	/Brenda Flockhart-Shanks/
<b>DATE SIGNED:</b>	05/28/2015
<b>Total Attachments: 10</b>	

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTOR(S): Phillips, et al. CONFIRMATION NO.: 1916  
APPLICATION NO.: 13/743,671 FILING DATE: January 17, 2013  
TITLE: Method And Apparatus For Siloxane Measurements In A Biogas

COPY

DECLARATION PURSUANT TO 37 C.F.R. § 1.63 AND ASSIGNMENT

I. DECLARATION

As the below named inventor, I hereby make the following declarations with respect to the above-identified patent application:

The above-identified application was made or authorized to be made by me;

I believe that I am the original inventor or an original joint inventor of a claimed invention in the above-identified application;

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims;

I acknowledge the duty to disclose to the Patent Office all information known by me to be material to patentability as defined in 37 C.F.R. § 1.56, including for continuation-in-part applications, material information known by me which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application; and

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.

II. ASSIGNMENT

WHEREAS, I, Charles Mark Phillips, have invented, solely or jointly, one or more inventions described in the above-identified patent application for letters patent; and

WHEREAS, MKS Instruments, Inc., (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State/Commonwealth of Massachusetts, and having a usual place of business at 2 Tech Drive, Suite 201, Andover, Massachusetts, desires to acquire an interest therein, in accordance with agreements duly entered into with me.

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, my entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to the invention(s) described in said application, together with my entire right, title and interest in and to said application and such letters patent as may issue thereon or claim priority under United States law or international convention, including but not limited to non-provisionals, continuations, divisionals, reissues, reexaminations, extensions, and substitutions of said application or such letters patent, and any right, title and interest I may have in provisional applications to which said application claims priority; said invention(s), applications and letters patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said letters patent may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made. I hereby convey all of my rights arising under or pursuant to any and all United States laws and international agreements, treaties or laws relating to the protection of

industrial property by filing any such applications for letters patent, including but not limited to any cause(s) of action and damages accruing prior to this assignment. I hereby acknowledge that this assignment, being of my entire right, title and interest in and to said invention(s), carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all letters patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all letters patent to ASSIGNEE in its own name as assignee of my entire right, title and interest therein.

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### III. SIGNATURE BLOCK

*IN TESTIMONY WHEREOF*, I have hereunto set my hand-and affixed my seal on the date set forth below.

Inventor:

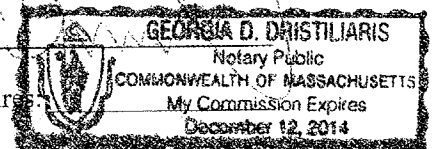
*Charles Mark Phillips*  
Charles Mark Phillips

### NOTARIZATION

State/Commonwealth of *Massachusetts*  
County of *ESSEX* ) ss

On this *29<sup>th</sup>* day of *January*, 2013 before me, the undersigned notary public, personally appeared Charles Mark Phillips, proved to me through satisfactory evidence of identification, which were *his driver's license*, to be the person whose name is signed on the preceding or attached document in my presence.

*Georgia D. Dristliaris*  
Notary Public  
My Commission Expires

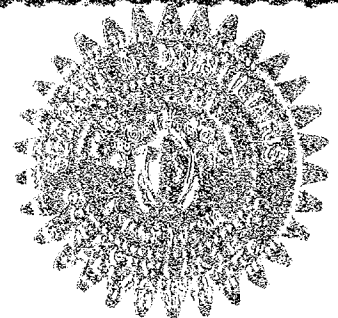


### WITNESS

Witness Signature: \_\_\_\_\_

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

Witness Date: \_\_\_\_\_



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I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.

II. ASSIGNMENT

WHEREAS, I, Barbara Marshik-Geurts, have invented, solely or jointly, one or more inventions described in the above-identified patent application for letters patent; and

WHEREAS, MKS Instruments, Inc., (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State/Commonwealth of Massachusetts, and having a usual place of business at 2 Tech Drive, Suite 201, Andover, Massachusetts, desires to acquire an interest therein, in accordance with agreements duly entered into with me.

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, my entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to the invention(s) described in said application, together with my entire right, title and interest in and to said application and such letters patent as may issue thereon or claim priority under United States law or international convention, including but not limited to non-provisionals, continuations, divisionals, reissues, reexaminations, extensions, and substitutions of said application or such letters patent, and any right, title and interest I may have in provisional applications to which said application claims priority; said invention(s), applications and letters patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said letters patent may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made. I hereby convey all of my rights arising under or pursuant to any and all United States laws and international agreements, treaties or laws relating to the protection of

industrial property by filing any such applications for letters patent, including but not limited to any cause(s) of action and damages accruing prior to this assignment. I hereby acknowledge that this assignment, being of my entire right, title and interest in and to said invention(s), carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all letters patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all letters patent to ASSIGNEE in its own name as assignee of my entire right, title and interest therein.

I hereby further agree for myself and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention(s) to said ASSIGNEE, its successors, assigns, and legal representatives, but at its or their expense and charges, including the execution of non-provisional, substitution, continuation, divisional, reissue, reexamination, or corresponding foreign or international patent applications.

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### III. SIGNATURE BLOCK

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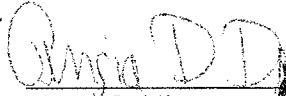
Inventor:

  
Barbara Marshik-Geurts

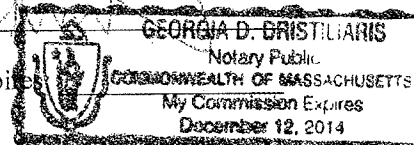
### NOTARIZATION

State/Commonwealth of Massachusetts  
County of ESSEX ) ss

On this 29<sup>th</sup> day of January, 2013 before me, the undersigned notary public, personally appeared Barbara Marshik-Geurts, proved to me through satisfactory evidence of identification, which were MA DRIVER'S LICENSE, to be the person whose name is signed on the preceding or attached document in my presence.

  
Notary Public

My Commission Expires



### WITNESS

Witness Signature: \_\_\_\_\_

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

Witness Date: \_\_\_\_\_

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTOR(S): Phillips, et al. CONFIRMATION NO.: 1916  
APPLICATION NO.: 13/743,671 FILING DATE: January 17, 2013  
TITLE: Method And Apparatus For Siloxane Measurements In A Biogas

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I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.

II. ASSIGNMENT

WHEREAS, I, Leonard I. Kamlet, have invented, solely or jointly, one or more inventions described in the above-identified patent application for letters patent; and

WHEREAS, MKS Instruments, Inc., (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State/Commonwealth of Massachusetts, and having a usual place of business at 2 Tech Drive, Suite 201, Andover, Massachusetts, desires to acquire an interest therein, in accordance with agreements duly entered into with me.

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, my entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to the invention(s) described in said application, together with my entire right, title and interest in and to said application and such letters patent as may issue thereon or claim priority under United States law or international convention, including but not limited to non-provisionals, continuations, divisionals, reissues, reexaminations, extensions, and substitutions of said application or such letters patent, and any right, title and interest I may have in provisional applications to which said application claims priority; said invention(s), applications and letters patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said letters patent may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made. I hereby convey all of my rights arising under or pursuant to any and all United States laws and international agreements, treaties or laws relating to the protection of

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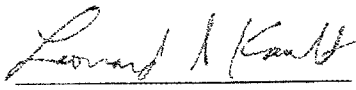
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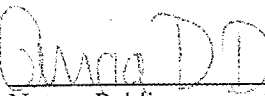
Inventor:

  
Leonard I. Kamlet

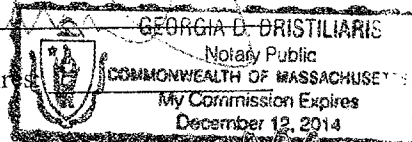
### NOTARIZATION

State/Commonwealth of Massachusetts  
County of ESSEX ) ss

On this 29<sup>th</sup> day of January, 2013 before me, the undersigned notary public, personally appeared Leonard I. Kamlet, proved to me through satisfactory evidence of identification, which were MA DRIVER'S LICENSE, to be the person whose name is signed on the preceding or attached document in my presence.

  
Notary Public

My Commission Expires



### WITNESS

Witness Signature: \_\_\_\_\_

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

Witness Date: \_\_\_\_\_



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTOR(S): Phillips, et al. CONFIRMATION NO.: 1916  
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II. ASSIGNMENT

WHEREAS, I, Martin L. Spartz, have invented, solely or jointly, one or more inventions described in the above-identified patent application for letters patent; and

WHEREAS, MKS Instruments, Inc., (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State/Commonwealth of Massachusetts, and having a usual place of business at 2 Tech Drive, Suite 201, Andover, Massachusetts, desires to acquire an interest therein, in accordance with agreements duly entered into with me.

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, my entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to the invention(s) described in said application, together with my entire right, title and interest in and to said application and such letters patent as may issue thereon or claim priority under United States law or international convention, including but not limited to non-provisionals, continuations, divisionals, reissues, reexaminations, extensions, and substitutions of said application or such letters patent, and any right, title and interest I may have in provisional applications to which said application claims priority; said invention(s), applications and letters patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said letters patent may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made. I hereby convey all of my rights arising under or pursuant to any and all United States laws and international agreements, treaties or laws relating to the protection of

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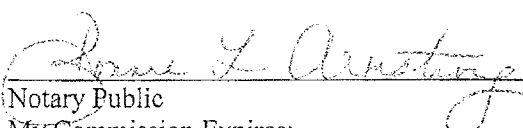
Inventor:

  
Martin L. Spartz

### NOTARIZATION

State/Commonwealth of CT )  
County of Tolland ) ss Ellington

On this 18<sup>th</sup> day of March, 2013 before me, the undersigned notary public, personally appeared Martin L. Spartz, proved to me through satisfactory evidence of identification, which were CT driver's license, to be the person whose name is signed on the preceding or attached document in my presence.

  
Notary Public

My Commission Expires: \_\_\_\_\_

### WITNESS

Witness Signature: \_\_\_\_\_

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

Witness Date: \_\_\_\_\_

Bonnie L. Armstrong  
NOTARY PUBLIC  
State of Connecticut  
My Commission Expires 2/28/2018

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II. ASSIGNMENT

WHEREAS, I, Vidi Saptari, have invented, solely or jointly, one or more inventions described in the above-identified patent application for letters patent; and

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Inventor:

  
Vidi Saptari

### NOTARIZATION

State/Commonwealth of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss

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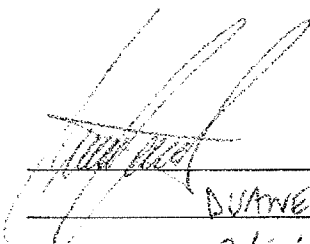
\_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_

### WITNESS

Witness Signature: \_\_\_\_\_

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

Witness Date: \_\_\_\_\_

  
DUANE SWORD  
2/6/2013