

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3124459

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
GERARDO A. BRUCKER	11/03/2014
TIMOTHY C. SWINNEY	11/01/2014
BRANDON J. KELLY	10/30/2014
ALFRED A. FUNARI	11/04/2014
MICHAEL N. SCHOTT	11/19/2014
KRISTIAN S. SCHARTAU	11/19/2014
RECEIVING PARTY DATA	
Name:	MKS INSTRUMENTS, INC.
Street Address:	2 TECH DRIVE
Internal Address:	SUITE 201
City:	ANDOVER
State/Country:	MASSACHUSETTS
Postal Code:	01810
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14537593
CORRESPONDENCE DATA	
Fax Number:	(978)341-0136
<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>	
Phone:	978-341-0036
Email:	ann.giso@hbsr.com
Correspondent Name:	JAMES M. SMITH, ESQ.
Address Line 1:	530 VIRGINIA ROAD, BOX 9133
Address Line 2:	HAMILTON BROOK SMITH & REYNOLDS, PC
Address Line 4:	CONCORD, MASSACHUSETTS 01742-9133
ATTORNEY DOCKET NUMBER:	0100.2367-004
NAME OF SUBMITTER:	ANN GISO
SIGNATURE:	/Ann Giso/
DATE SIGNED:	11/26/2014

PATENT

Total Attachments: 12

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JointASSIGNMENT

WHEREAS, we, **Gerardo A. Brucker, Timothy C. Swinney, Brandon J. Kelly, Alfred A. Funari, Michael N. Schott and Kristian S. Schartau**, have invented a certain improvement in **Cold Cathode Ionization Vacuum Gauge** described in an application for Patent,

- the specification of which is about to be filed in the United States Patent Office (*use for utility (37 CFR § 1.53(b)) and design filings only*);
- is about to be filed in the United States Patent Office as a Provisional Application;
- the specification of which is a Divisional of United States Application No. 14/500,820 filed September 29, 2014;
- the specification of which is a Patent Cooperation Treaty Application, International Application No. [], filed [], which designates the United States of America [and is assigned United States Application No. []];
- which was patented under United States Patent No. [].

WHEREAS, **MKS Instruments, Inc.** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **Commonwealth of Massachusetts**, and having a usual place of business at **2 Tech Drive, Suite 201, Andover, MA 01810** desires to confirm its interest therein in accordance with agreements duly entered into with us;

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, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application 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 us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for any and all related provisional and nonprovisional, international and national phase applications, including any and all substitution, reissue, divisional, continuation, and continuation-in-part applications, 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 such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; we hereby expressly authorize the filing of an International Patent Application under the

Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, we hereby further agree for ourselves and our 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 to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation, continuation-in-part applications, and all related provisional and nonprovisional, international and national phase applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: Gerardo A. Brucker
Gerardo A. Brucker

State/Commonwealth
of Colorado
County of Boulder

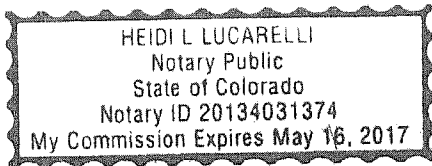
On this 3rd day of November 2014, before me, the undersigned notary public, personally appeared Gerardo A. Brucker,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

Gerardo A. Brucker

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)



Notary Public Heidi L. Lucarelli
Heidi L. Lucarelli (print name)
My Commission expires 05/16/2017

Inventor's Signature: [Signature]
Timothy C. Swinney

State/Commonwealth
of Colorado
County of Garfield

On this 1st day of November 2014, before me, the undersigned notary public, personally appeared Timothy C. Swinney,

personally known to me, or

proved to me through satisfactory evidence of identification, which was Colorado Driver License #92-227-7389

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) **Z DUCKWORTH**
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20124083569
MY COMMISSION EXPIRES 12/28/2016

Notary Public, [Signature]
Z. Duckworth (print name)
My Commission expires 12/28/2016

Inventor's Signature: _____
Brandon J. Kelly

State/Commonwealth
of _____
County of _____

On this _____ day of _____ 20____, before me, the undersigned notary public, personally appeared Brandon J. Kelly,

personally known to me, or

proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) Notary Public _____

(print name)
My Commission expires ____/____/____

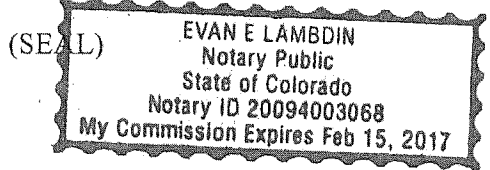
Inventor's Signature: Alfred A. Funari
Alfred A. Funari

State/Commonwealth
of Colorado
County of Larimer

On this 4 day of November 20 14, before me, the undersigned notary public, personally appeared Alfred A. Funari,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was Colorado Drivers License.

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.



Notary Public Evan E Lambdin
Evan Lambdin (print name)
My Commission expires Feb / 15 / 2017

Inventor's Signature: _____
Michael N. Schott

State/Commonwealth
of _____
County of _____

On this _____ day of _____ 20 _____, before me, the undersigned notary public, personally appeared Michael N. Schott,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) Notary Public _____

(print name)
My Commission expires ____ / ____ / ____

Inventor's Signature: *Kristian S. Schartau*
Kristian S. Schartau

State/Commonwealth
of Colorado
County of Boulder

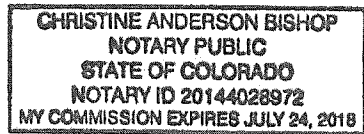
On this 19 day of November 2014, before me, the undersigned notary public, personally appeared Kristian S. Schartau,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

DRIVER License

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)



Notary Public *Christine A. Bishop*
Christine A. Bishop (print name)

My Commission expires 07/24/2018

JointASSIGNMENT

WHEREAS, we, **Gerardo A. Brucker, Timothy C. Swinney, Brandon J. Kelly, Alfred A. Funari, Michael N. Schott and Kristian S. Schartau**, have invented a certain improvement in **Cold Cathode Ionization Vacuum Gauge** described in an application for Patent,

- the specification of which is about to be filed in the United States Patent Office (*use for utility (37 CFR § 1.53(b)) and design filings only*);
- is about to be filed in the United States Patent Office as a Provisional Application;
- the specification of which is a Divisional of United States Application No. 14/500,820 filed September 29, 2014;
- the specification of which is a Patent Cooperation Treaty Application, International Application No. [], filed [], which designates the United States of America [and is assigned United States Application No. []];
- which was patented under United States Patent No. [].

WHEREAS, **MKS Instruments, Inc.** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **Commonwealth of Massachusetts**, and having a usual place of business at **2 Tech Drive, Suite 201, Andover, MA 01810** desires to confirm its interest therein in accordance with agreements duly entered into with us;

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, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application 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 us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for any and all related provisional and nonprovisional, international and national phase applications, including any and all substitution, reissue, divisional, continuation, and continuation-in-part applications, 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 such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; we hereby expressly authorize the filing of an International Patent Application under the

Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, we hereby further agree for ourselves and our 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 to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation, continuation-in-part applications, and all related provisional and nonprovisional, international and national phase applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: Gerardo A. Brucker
Gerardo A. Brucker

State/Commonwealth
of Colorado
County of Boulder

On this 3rd day of November 2014, before me, the undersigned notary public, personally appeared Gerardo A. Brucker,

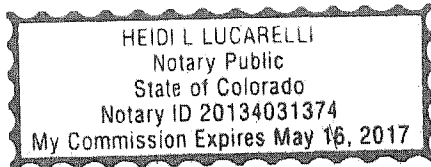
personally known to me, or

proved to me through satisfactory evidence of identification, which was

Gerardo A. Brucker

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)



Notary Public Heidi L. Lucarelli

Heidi L. Lucarelli (print name)

My Commission expires 05/16/2017

Inventor's Signature: _____

Timothy C. Swinney

State/Commonwealth
of _____
County of _____

On this _____ day of _____ 20____, before me, the undersigned notary public, personally appeared Timothy C. Swinney,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) Notary Public _____
 _____ (print name)
 My Commission expires ____/____/____

Inventor's Signature: _____

Brandon J. Kelly

State/Commonwealth
of Colorado
County of Boulder

On this 30th day of Oct 2014, before me, the undersigned notary public, personally appeared Brandon J. Kelly,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

MARY L BLATZER
 NOTARY PUBLIC
 STATE OF COLORADO
 NOTARY ID 19984010748
 MY COMMISSION EXPIRES AUGUST 7, 2017

Notary Public _____
Maryl Blatzer (print name)
 My Commission expires 8 7 17

Inventor's Signature: _____
Alfred A. Funari

State/Commonwealth
of _____
County of _____

On this _____ day of _____ 20____, before me, the undersigned notary public, personally appeared Alfred A. Funari,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) Notary Public _____

(print name)
My Commission expires ____/____/____

Inventor's Signature: _____
Michael N. Schott

State/Commonwealth
of Colorado
County of Boulder

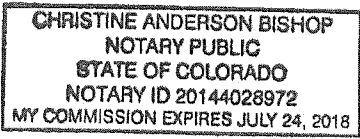
On this 19th day of November 2014, before me, the undersigned notary public, personally appeared Michael N. Schott,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

Driver License

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) Notary Public _____
Christine A. Bishop (print name)
My Commission expires 07/24/2018



Inventor's Signature: *Kristian S. Schartau*
Kristian S. Schartau

State/Commonwealth
of Colorado
County of Boulder

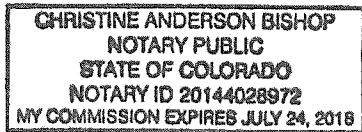
On this 19 day of November 2014, before me, the undersigned notary public, personally appeared Kristian S. Schartau,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

DRIVER License

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)



Notary Public *Christine A. Bishop*
Christine A. Bishop (print name)
My Commission expires 07/24/2018