

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT2854375

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DAVID J COUMOU	04/26/2014
MICHAEL L KIRK	04/21/2014
DANIEL M GILL	05/06/2014
<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>
<b>Application Number:</b>	14249972
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(248)641-0270
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	2483411600
<b>Email:</b>	docketingtm@hdp.com, jcatanese@hdp.com
<b>Correspondent Name:</b>	HARNESS, DICKEY & PIERCE P.L.C.
<b>Address Line 1:</b>	5445 CORPORATE DRIVE
<b>Address Line 2:</b>	SUITE 200
<b>Address Line 4:</b>	TROY, MICHIGAN 48098
<b>ATTORNEY DOCKET NUMBER:</b>	3197-000113-US
<b>NAME OF SUBMITTER:</b>	JENNIFER CATANESE
<b>SIGNATURE:</b>	/Jennifer Catanese/
<b>DATE SIGNED:</b>	05/14/2014
<b>Total Attachments: 4</b>	
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**ASSIGNMENT**

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

Multiple Radio Frequency Power Supply Control of Frequency and Phase

for which Assignor is about to make or has made United States or International application for patent

- (a) ☐ executed on even date preparatory to filing (each inventor should sign this Assignment on the same day as he/she signs the Declaration and Power of Attorney);
- (b) ☐ executed on , \_\_\_\_\_, \_\_\_\_\_; or
- (c) ☒ filed on April 10, 2014, and assigned U.S. Serial No. 14/249,972; and

WHEREAS, MKS Instruments, Inc., 2 Tech Drive, Suite 201, Andover, Massachusetts 01810, hereinafter referred to as Assignee, is desirous of acquiring all right, title, and interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor hereby confirms any prior assignment to Assignee, and to the extent that Assignor has not already done so, agrees to assign, and hereby does, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights.


Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, any derivation proceedings relating thereto, and as to Letters Patent any supplemental examination, derivation proceeding, opposition, post grant review, reissue, re-examination, inter partes review, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth.

Assignor hereby covenants that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment.

Assignor hereby requests the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue the Letters Patent, Utility Model Registration or other similar right to Assignee.

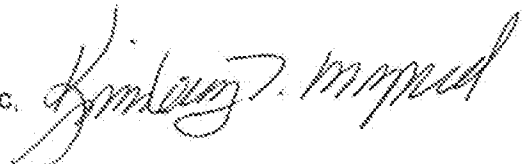
The undersigned hereby grant(s) the law firm of Harness, Dickey & Pierce, P.L.C. the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

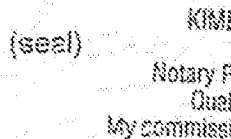
ASSIGNMENT

  
 David J. Coomou

State of New York )  
 ) ss.  
 County of ERIE )

On this 26<sup>th</sup> day of APRIL, 2014, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Notary Public, 

(seal)   
 KIMBERLY T MRZYGLOD  
 01MR6278128  
 Notary Public, State of New York  
 Qualified in ERIE County  
 My commission expires MAY 6th, 2017

Acting in the County Of ERIE

State Of NEW YORK

My Commission Expires MAY 6, 2017

\_\_\_\_\_  
 Michael L. Kirk

State of \_\_\_\_\_ )  
 ) ss.  
 County of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Notary Public,

Acting in the County Of

State Of

My Commission Expires

(seal)

## ASSIGNMENT

\_\_\_\_\_  
David J. Coumou

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Notary Public,

(seal)

Acting in the County Of

State Of

My Commission Expires

Michael L. Kirk  
Michael L. Kirk

State of New York )  
County of Ontario ) ss.

On this 21 day of April, 2014, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Notary Public,

Wendy E. Miller

(seal)

Acting in the County Of

State Of

My Commission Expires

WENDY E. MILLER  
Notary Public, State of New York  
Ontario County Reg #011AIG009281  
Commission Expires June 22, 2014

  
\_\_\_\_\_  
Daniel M. Gill

**ASSIGNMENT**

State of New York )  
County of Monroe ) ss.

On this 6 day of May, 2014, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Notary Public, 

(seal)

Acting in the County Of Monroe

State Of New York

My Commission Expires 01-11-15

18480795.1

MICHELE K. THOMPSON  
Notary Public in the State of New York  
MONROE COUNTY  
Commission Expires Jan. 11, 2015