

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	BROOKS AUTOMATION, INC.	05/30/2014
<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>
	Application Number:	14174386
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(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>		
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<b>ATTORNEY DOCKET NUMBER:</b>	0100.2174-006	
<b>NAME OF SUBMITTER:</b>	JANE MORGAN	
<b>SIGNATURE:</b>	/Jane Morgan/	
<b>DATE SIGNED:</b>	07/08/2014	
<b>Total Attachments: 2</b>		
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## PATENT ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Brooks Automation, Inc. ("Assignor"), hereby assigns to MKS Instruments, Inc., a Delaware corporation having a place of business at 2 Tech Drive, Suite 201, Andover, Massachusetts 01810 ("Buyer" and herein also referred to as "Assignee"), all of Assignor's right, title and interest in and to the below-identified patents, patent registrations and patent applications ("Patent Rights"), including all rights to sue for past infringement, the same to be held and enjoyed by Buyer, its successors and assigns, in and throughout the United States of America, its territories and all foreign countries, including but not limited to Assignor's right, title and interest in and to the invention(s) described in said Patent Rights and such letters patents as may issue from patent applications included within the Patent Rights, including but not limited to non-provisionals, continuations, divisionals, reissues, reexaminations, extensions, and substitutions of said application(s) or such patents; said Patent Rights 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 patents 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 hereby conveys all of Assignor's 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 the filing of any such application(s) within the Patent Rights, including but not limited to any cause(s) of action and damages accruing prior to this assignment. Assignor hereby acknowledges that this assignment, being of Assignor's 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 Assignee's entire right, title and interest therein;

AND, Assignor hereby further agrees 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(s) to said Assignee, its successors, assigns, and legal representatives, including the execution of non-provisional, substitution, continuation, divisional, reissue, reexamination, or corresponding foreign or international patent applications but at Assignee's own expense and charge;

AND, Assignor hereby further agrees to provide factual statements or testimony in any interference or other proceeding in which said invention(s) or any application or patent directed thereto may be involved;

AND, Assignor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue such letters patent as shall be granted upon applications included within the Patent Rights, or applications based thereon, to said Assignee, its successors, assigns, or legal representatives:

Executed as of the 30<sup>th</sup> day of May, 2014.

**BROOKS AUTOMATION, INC.**

By: 

Name: Stephen S. Schwartz

Title: Chief Executive Officer

*[Signature Page to Patent Assignment]*