

## TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

ETAS ID: TM483730

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT		
<b>NATURE OF CONVEYANCE:</b>	TRADEMARK SECURITY AGREEMENT		
<b>SEQUENCE:</b>	1		
<b>CONVEYING PARTY DATA</b>			
<b>Name</b>	<b>Formerly</b>	<b>Execution Date</b>	<b>Entity Type</b>
MKS INSTRUMENTS, INC.		07/24/2018	Corporation: MASSACHUSETTS
NEWPORT CORPORATION		07/24/2018	Corporation: NEVADA
<b>RECEIVING PARTY DATA</b>			
<b>Name:</b>	DEUTSCHE BANK AG NEW YORK BRANCH		
<b>Street Address:</b>	60 WALL STREET		
<b>City:</b>	NEW YORK		
<b>State/Country:</b>	NEW YORK		
<b>Postal Code:</b>	10005		
<b>Entity Type:</b>	Bank: GERMANY		
<b>PROPERTY NUMBERS Total: 4</b>			
<b>Property Type</b>	<b>Number</b>	<b>Word Mark</b>	
<b>Serial Number:</b>	87960632	SURROUND THE WORKPIECE	
<b>Serial Number:</b>	88014243	SPARCLEAN	
<b>Serial Number:</b>	88014240	TRURAD	
<b>Serial Number:</b>	87930910	SPECTRA-PHYSICS	
<b>CORRESPONDENCE DATA</b>			
<b>Fax Number:</b>			
	<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>	212-318-6532		
<b>Email:</b>	alanagramer@paulhastings.com		
<b>Correspondent Name:</b>	ALANA GRAMER		
<b>Address Line 1:</b>	C/O PAUL HASTINGS LLP		
<b>Address Line 2:</b>	200 PARK AVENUE		
<b>Address Line 4:</b>	NEW YORK, NEW YORK 10166		
<b>NAME OF SUBMITTER:</b>	ALANA GRAMER		
<b>SIGNATURE:</b>	/s/ AG		
<b>DATE SIGNED:</b>	07/27/2018		

CH \$115.00 87960632

**Total Attachments: 5**

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TRADEMARK SECURITY AGREEMENT

**Trademark Security Agreement**, dated as of July 24, 2018 (as amended, amended and restated, supplemented or otherwise modified from time to time, the “Trademark Security Agreement”), by MKS INSTRUMENTS, INC. and NEWPORT CORPORATION (each a “Grantor”), in favor of DEUTSCHE BANK AG NEW YORK BRANCH, in its capacity as collateral agent pursuant to the Credit Agreement (in such capacity, the “Collateral Agent”).

W I T N E S S E T H:

WHEREAS, the Grantor is party to that certain (i) Security Agreement dated as of April 29, 2016 (as amended, amended and restated, supplemented or otherwise modified from time to time, the “Security Agreement”), by and among the Borrower, the other Grantors party thereto and the Collateral Agent, in favor of the Collateral Agent, pursuant to which the Grantor is required to execute and deliver to the Collateral Agent this Trademark Security Agreement and (ii) Trademark Security Agreement dated as of April 29, 2016 among the Grantors party thereto in favor of the Collateral Agent (the “Existing Trademark Security Agreement”);

NOW, THEREFORE, in consideration of the premises and to induce the Collateral Agent, for the benefit of the Secured Parties, to enter into the Credit Agreement, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and with the intent to be legally bound hereby, the Grantor hereby agrees with the Collateral Agent as follows:

SECTION 1. Defined Terms. Unless otherwise defined herein, terms defined in the Credit Agreement or the Security Agreement used herein have the respective meanings assigned thereto in the Credit Agreement or the Security Agreement, in each case, as applicable.

SECTION 2. Grant of Security Interest in Trademark Collateral. As security for the payment or performance, as the case may be, in full of the Secured Obligations, including the Guarantees, each Grantor hereby pledges to the Collateral Agent, its successors and assigns, for the benefit of the Secured Parties, and hereby grants to the Collateral Agent, its successors and assigns, for the benefit of the Secured Parties, a security interest in, all right, title or interest in or to any and all of the following assets and properties now owned or at any time hereafter acquired by such Grantor or in which such Grantor now has or at any time in the future may acquire any right, title or interest (in addition to the pledges and security interests granted by the Existing Trademark Security Agreement):

- (a) all Trademarks of the Grantor listed on Schedule I attached hereto; and
- (b) all products and Proceeds of any of the foregoing (together with clause (a), collectively, the “Trademarks”).

SECTION 3. The Security Agreement. The security interests granted pursuant to this Trademark Security Agreement are granted in conjunction with the security interests granted to the Collateral Agent pursuant to the Security Agreement, and the Grantor hereby acknowledges and affirms that the rights and remedies of the Collateral Agent with respect to the security interests in the Trademarks made and granted hereby are more fully set forth in the Security Agreement. In the event that any provision of this Trademark Security Agreement is deemed to conflict with the Security Agreement, the provisions of the Security Agreement shall control.

SECTION 4. Termination. Upon the termination of the Security Agreement in accordance with, or otherwise required pursuant to, Section 6.11 thereof, the Collateral Agent shall, at the expense of the Grantor, execute, acknowledge, and deliver to the Grantor an instrument in writing in recordable form releasing the lien on and security interest in the applicable Trademarks under this Trademark Security Agreement and any other documents required to evidence the termination of the Collateral Agent's interest in the applicable Trademarks.

**SECTION 5. GOVERNING LAW; JURISDICTION; VENUE; WAIVER OF JURY TRIAL; CONSENT TO SERVICE OF PROCESS.**

**(A) THE TERMS OF SECTION 10.13 OF THE CREDIT AGREEMENT WITH RESPECT TO GOVERNING LAW, SUBMISSION OF JURISDICTION, VENUE AND WAIVER OF JURY TRIAL ARE INCORPORATED HEREIN BY REFERENCE, *MUTATIS MUTANDIS*, AND THE PARTIES HERETO AGREE TO SUCH TERMS.**

**(B) EACH PARTY TO THIS TRADEMARK SECURITY AGREEMENT IRREVOCABLY CONSENTS TO SERVICE OF PROCESS IN THE MANNER PROVIDED FOR NOTICES IN SECTION 6.01 OF THE SECURITY AGREEMENT. NOTHING IN THIS TRADEMARK SECURITY AGREEMENT WILL AFFECT THE RIGHT OF ANY PARTY TO THIS TRADEMARK SECURITY AGREEMENT TO SERVE PROCESS IN ANY OTHER MANNER PERMITTED BY LAW.**

SECTION 6. Waivers; Amendments; Modifications. Neither this Trademark Security Agreement nor any provision hereof may be waived, amended or modified except pursuant to an agreement or agreements in writing entered into by the Collateral Agent and the Grantor or Grantors with respect to which such waiver, amendment or modification is to apply, subject to any consent required in accordance with Section 10.01 of the Credit Agreement and subject to Section 6.02 of the Security Agreement.

SECTION 7. Notices; Communications. All communications and notices under this Trademark Security Agreement shall be in writing and given as provided in Section 6.01 of the Security Agreement.

SECTION 8. Counterparts; Effectiveness. This Trademark Security Agreement may be executed in any number of counterparts, all of which shall constitute one and the same instrument, and any party hereto may execute this Trademark Security Agreement by signing and delivering to the other party hereto one or more counterparts. Delivery by facsimile or other electronic communication of an executed counterpart (including portable document format (PDF)) of a signature page to this Trademark Security Agreement shall be effective as delivery of an original executed counterpart of this Trademark Security Agreement. This Trademark Security Agreement shall become effective as to the Grantor when a counterpart hereof executed on behalf of the Grantor shall have been delivered to the Collateral Agent and a counterpart hereof shall have been executed on behalf of the Collateral Agent, and thereafter shall be binding upon the Grantor and the Collateral Agent and their respective permitted successors and assigns, and shall inure to the benefit of the Grantor, the Collateral Agent and the other Secured Parties and their respective permitted successors and assigns, except that the Grantor shall not have the right to assign or transfer its rights or obligations hereunder or any interest herein or in the Collateral (and any such assignment or transfer shall be void) except as expressly contemplated by the Security Agreement or the Credit Agreement.

[Signature Pages Follow]

**MKS INSTRUMENTS, INC.,**

as a Grantor

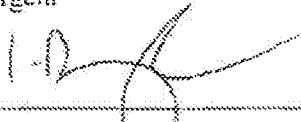
By: Seth H. Bagshaw  
Name: Seth H. Bagshaw  
Title: Senior VP and Secretary

**NEWPORT CORPORATION,**

as a Grantor

By: Kathleen R. Serke  
Name: Kathleen R. Serke  
Title: Secretary

**DEUTSCHE BANK AG NEW YORK BRANCH,**  
as the Collateral Agent

By:   
Name: Ian Darrington  
Title: Managing Director

By:   
Name: PHILIP SALIBA  
Title: DIRECTOR

**Schedule I  
to  
TRADEMARK SECURITY AGREEMENT  
UNITED STATES TRADEMARK REGISTRATIONS AND APPLICATIONS**

**Trademark Registrations:**

<b>OWNER</b>	<b>REGISTRATION NUMBER</b>	<b>TRADEMARK</b>
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**Trademark Applications:**

<b>OWNER</b>	<b>APPLICATION NUMBER</b>	<b>TRADEMARK</b>
MKS Instruments, Inc.	87/960632	SURROUND THE WORKPIECE
MKS Instruments, Inc.	88/014243	SPARCLEAN
MKS Instruments, Inc.	88/014240	TRURAD
Newport Corporation	87/930910	SPECTRA-PHYSICS (word mark)