# 507706821 01/20/2023 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7753965

SUBMISSION TYPE:	NEW ASSIGNMENT				
NATURE OF CONVEYANCE:	INTELLECTUAL PROPERTY	INTELLECTUAL PROPERTY AGREEMENT SUPPLEMENT			
CONVEYING PARTY DATA	·				
Name Execution Date					
IKS INSTRUMENTS, INC. 01/20/2023					
NEWPORT CORPORATION	01/20/2023				
ELECTRO SCIENTIFIC INDUSTRIES, INC. 01/20/2023					

# **RECEIVING PARTY DATA**

Name:	JPMORGAN CHASE BANK, N.A., AS COLLATERAL AGENT
Street Address:	10 SOUTH DEARBORN STREET
Internal Address:	FLOOR L2N
City:	CHICAGO
State/Country:	ILLINOIS
Postal Code:	60603

#### **PROPERTY NUMBERS Total: 13**

Property Type	Number
Application Number:	63417889
Application Number:	63384539
Application Number:	63422758
Application Number:	63383955
Application Number:	62432609
Application Number:	17979129
Application Number:	17993498
Application Number:	63433310
Application Number:	18045685
Application Number:	18084696
Application Number:	18079338
Application Number:	17973267
Application Number:	63412928

# **CORRESPONDENCE DATA**

Fax Number:

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.

Phone: 2 <sup>-</sup>	2.318.6000				
Email: Je	effreyNegron@PaulHastings.com				
Correspondent Name: JE	FFREY NEGRON				
Address Line 1: PA	AUL HASTINGS LLP				
Address Line 2: 20	00 PARK AVENUE				
Address Line 4: N	NEW YORK, NEW YORK 10166				
NAME OF SUBMITTER:	JEFFREY M. NEGRON				
SIGNATURE:	/s/ Jeffrey M. Negron				
DATE SIGNED:	01/20/2023				
Total Attachments: 10					
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### INTELLECTUAL PROPERTY AGREEMENT SUPPLEMENT

This INTELLECTUAL PROPERTY SECURITY AGREEMENT SUPPLEMENT (this "<u>IP Security Agreement Supplement</u>") dated January 20, 2023, is made by the Person listed on the signature page hereof (the "<u>Grantor</u>") in favor of JPMORGAN CHASE BANK, N.A., as collateral agent (the "<u>Collateral Agent</u>") for the Secured Parties (as defined in the Credit Agreement referred to below).

WHEREAS, MKS INSTRUMENTS, INC., a Massachusetts corporation (the "<u>Parent</u> <u>Borrower</u>") and certain Subsidiaries of the Parent Borrower from time to time party thereto have entered into the Credit Agreement dated as of August 17, 2022 (as amended, amended and restated, supplemented or otherwise modified from time to time, the "<u>Credit Agreement</u>"), with the Lenders, the L/C Issuers and the Administrative Agent and the other parties thereto. Capitalized terms defined in the Credit Agreement or in the Security Agreement (as defined below) and not otherwise defined herein are used herein as defined in the Credit Agreement or the Security Agreement, as the case may be (and in the event of a conflict, the applicable definition shall be the one given to such term in the Security Agreement).

WHEREAS, pursuant to the Credit Agreement, the Grantors have executed and delivered or otherwise become bound by that certain Security Agreement dated August 17, 2022 (as amended, amended and restated, supplemented or otherwise modified from time to time, the "Security Agreement") and that certain Intellectual Property Security Agreement dated August 17, 2022 (as amended, amended and restated, supplemented or otherwise modified from time to time, the "IP Security Agreement").

WHEREAS, under the terms of the Security Agreement, the Grantor has agreed to grant to the Collateral Agent, for the benefit of the Secured Parties, a security interest in any after-acquired intellectual property collateral of the Grantor and has agreed in connection therewith to execute this IP Security Agreement Supplement for recording with the USPTO and/or the USCO, as applicable.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Grantor agrees as follows:

Section 1. <u>Grant of Security</u>. Each Grantor hereby collaterally assigns and pledges to the Collateral Agent, for the benefit of the Secured Parties, and each Grantor hereby grants to the Collateral Agent, for the benefit of the Secured Parties, a security interest in all of such Grantor's right, title and interest in and to the following (the "Additional Collateral"):

(i) the patents and patent applications set forth in Schedule A hereto (the "<u>Patents</u>");

(ii) the trademark and service mark registrations and applications set forth in Schedule B hereto (provided that no security interest shall be granted in United States intent-to-use trademark applications to the extent that, and so long as creation of a security interest therein or the assignment thereof would result in the loss of any material rights therein), together with the goodwill symbolized thereby (the "<u>Trademarks</u>");

(iii) the copyright registrations and applications and exclusive copyright licenses set forth in Schedule C hereto (the "<u>Copyrights</u>");

(iv) all reissues, divisions, continuations, continuations-in-part, extensions, renewals and reexaminations of any of the foregoing, all rights in the foregoing provided by international treaties or conventions, all rights corresponding thereto throughout the

world and all other rights of any kind whatsoever of such Grantor accruing thereunder or pertaining thereto;

(v) any and all claims for damages and injunctive relief for past, present and future infringement, dilution, misappropriation, violation, misuse or breach with respect to any of the foregoing, with the right, but not the obligation, to sue for and collect, or otherwise recover, such damages; and

(vi) any and all proceeds of, collateral for, income, royalties and other payments now or hereafter due and payable with respect to, and supporting obligations relating to, any and all of the foregoing or arising from any of the foregoing;

<u>provided</u> that, notwithstanding anything to the contrary contained in the foregoing clauses (i) through (vi), the security interest created hereby shall not extend to, and the term "Additional Collateral," shall not include any Excluded Assets.

Section 2. <u>Supplement to Security Agreement</u>. Schedule III to the Security Agreement is, effective as of the date hereof, hereby supplemented to add to such Schedule the Additional Collateral.

Section 3. <u>Security for Obligations</u>. The grant of a security interest in the Additional Collateral by the Grantor under this IP Security Agreement Supplement secures the payment of all Secured Obligations of the Grantor now or hereafter existing under or in respect of the Secured Documents (as such Secured Documents may be amended, amended and restated, supplemented, replaced, refinanced or otherwise modified from time to time (including any increases of the principal amount outstanding thereunder)), whether direct or indirect, absolute or contingent, and whether for principal, reimbursement obligations, interest, premiums, penalties, fees, indemnifications, contract causes of action, costs, expenses or otherwise. Without limiting the generality of the foregoing, this IP Security Agreement Supplement secures the payment of all amounts that constitute part of the Secured Obligations that would be owed by the Grantor to any Secured Party under the Secured Documents but for the fact that they are unenforceable or not allowable due to the existence of a bankruptcy, reorganization or similar proceeding involving a Loan Party.

Section 4. <u>Recordation</u>. The Grantor authorizes and requests that the Register of Copyrights, the Commissioner for Patents and the Commissioner for Trademarks record this IP Security Agreement Supplement.

Section 5. <u>Execution in Counterparts</u>. Delivery of an executed signature page to this IP Security Agreement Supplement by telecopier or in .pdf or similar format by electronic mail shall be effective as delivery of an original executed signature page of this IP Security Agreement Supplement.

Section 6. <u>Grants, Rights and Remedies</u>. This IP Security Agreement Supplement has been entered into in conjunction with the provisions of the Security Agreement. The Grantor does hereby acknowledge and confirm that the grant of the security interest hereunder to, and the rights and remedies of, the Collateral Agent with respect to the Additional Collateral are more fully set forth in the Security Agreement, the terms and provisions of which are incorporated herein by reference as if fully set forth herein. In the event of any conflict between the terms of this IP Security Agreement Supplement and the terms of the Security Agreement, the terms of the Security Agreement shall govern.

## PATENT REEL: 062446 FRAME: 0365

Section 7. <u>Governing Law; Jurisdiction; Etc.</u>

(a) THIS IP SECURITY AGREEMENT SUPPLEMENT AND ANY CLAIMS, CONTROVERSY, DISPUTE OR CAUSE OF ACTION (WHETHER IN CONTRACT, TORT OR OTHERWISE) ARISING OUT OF OR RELATING TO THIS IP SECURITY AGREEMENT SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE LAW OF THE STATE OF NEW YORK.

EACH PARTY HERETO IRREVOCABLY AND UNCONDITIONALLY (b) SUBMITS, FOR ITSELF AND ITS PROPERTY, TO THE EXCLUSIVE JURISDICTION OF THE COURTS OF THE STATE OF NEW YORK SITTING IN NEW YORK CITY IN THE BOROUGH OF MANHATTAN AND OF THE UNITED STATES DISTRICT COURT FOR THE SOUTHERN DISTRICT OF NEW YORK SITTING IN THE BOROUGH OF MANHATTAN, AND ANY APPELLATE COURT FROM ANY THEREOF, IN ANY ACTION OR PROCEEDING ARISING OUT OF OR RELATING TO THIS IP SECURITY AGREEMENT SUPPLEMENT, OR FOR RECOGNITION OR ENFORCEMENT OF ANY JUDGMENT, AND EACH OF THE PARTIES HERETO IRREVOCABLY AND UNCONDITIONALLY AGREES THAT ALL CLAIMS IN RESPECT OF ANY SUCH ACTION OR PROCEEDING MAY BE HEARD AND DETERMINED IN SUCH NEW YORK STATE COURT OR, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, IN SUCH FEDERAL COURT. EACH OF THE PARTIES HERETO AGREES THAT A FINAL JUDGMENT IN ANY SUCH ACTION OR PROCEEDING SHALL BE CONCLUSIVE AND MAY BE ENFORCED IN OTHER JURISDICTIONS BY SUIT ON THE JUDGMENT OR IN ANY OTHER MANNER PROVIDED BY LAW. NOTHING IN THIS IP SECURITY AGREEMENT SUPPLEMENT SHALL AFFECT ANY RIGHT THAT ANY AGENT, ANY LENDER OR ANY L/C ISSUER MAY OTHERWISE HAVE TO BRING ANY ACTION OR PROCEEDING RELATING TO THIS IP SECURITY AGREEMENT OR THE RECOGNITION OR ENFORCEMENT OF ANY JUDGMENT AGAINST ANY LOAN PARTY OR ITS PROPERTIES IN THE COURTS OF ANY JURISDICTION.

(c) EACH PARTY HERETO IRREVOCABLY AND UNCONDITIONALLY WAIVES, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, ANY OBJECTION THAT IT MAY NOW OR HEREAFTER HAVE TO THE LAYING OF VENUE OF ANY ACTION OR PROCEEDING ARISING OUT OF OR RELATING TO THIS IP SECURITY AGREEMENT SUPPLEMENT IN ANY COURT REFERRED TO IN PARAGRAPH (b) OF THIS SECTION. EACH OF THE PARTIES HERETO HEREBY IRREVOCABLY WAIVES, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, THE DEFENSE OF AN INCONVENIENT FORUM TO THE MAINTENANCE OF SUCH ACTION OR PROCEEDING IN ANY SUCH COURT.

(d) EACH PARTY HERETO IRREVOCABLY CONSENTS TO SERVICE OF PROCESS IN THE MANNER PROVIDED FOR NOTICES IN SECTION 10.02 OF THE CREDIT AGREEMENT. NOTHING IN THIS IP SECURITY AGREEMENT SUPPLEMENT WILL AFFECT THE RIGHT OF ANY PARTY HERETO TO SERVE PROCESS IN ANY OTHER MANNER PERMITTED BY APPLICABLE LAW.

(c) EACH PARTY TO THIS IP SECURITY AGREEMENT SUPPLEMENT HEREBY EXPRESSLY WAIVES ANY RIGHT TO TRIAL BY JURY OF ANY CLAIM, DEMAND, ACTION OR CAUSE OF ACTION ARISING UNDER THIS IP SECURITY AGREEMENT SUPPLEMENT OR IN ANY WAY CONNECTED WITH OR RELATED OR INCIDENTAL TO THE DEALINGS OF THE PARTIES HERETO OR ANY OF THEM WITH RESPECT TO THIS IP SECURITY AGREEMENT SUPPLEMENT, OR THE TRANSACTIONS RELATED THERETO, IN EACH CASE WHETHER NOW EXISTING OR HEREAFTER ARISING, AND WHETHER FOUNDED IN CONTRACT OR TORT OR OTHERWISE; AND EACH PARTY HEREBY AGREES AND CONSENTS THAT ANY SUCH CLAIM, DEMAND, ACTION OR CAUSE OF ACTION SHALL BE DECIDED BY COURT TRIAL WITHOUT A JURY, AND THAT ANY PARTY TO THIS IP SECURITY AGREEMENT SUPPLEMENT MAY FILE AN ORIGINAL COUNTERPART OR A COPY OF THIS SECTION 7(e) WITH ANY COURT AS WRITTEN EVIDENCE OF THE CONSENT OF THE SIGNATORIES HERETO TO THE WAIVER OF THEIR RIGHT TO TRIAL BY JURY.

[Signature Pages Follow]

IN WITNESS WHEREOF, the Grantor has caused this IP Security Agreement Supplement to be duly executed and delivered by its officer thereunto duly authorized as of the date first written above.

#### MKS INSTRUMENTS, INC.,

as a Grantor

-DocuSigned by: Setle H. Bagsleaw By:

Name: Seth H. Bagshaw Title: Senior Vice President, Chief Financial Officer and Treasurer

#### **NEWPORT CORPORATION,**

as a Grantor

By:

DocuSigned by: Setle H. Bazshaw

Name: Seth H. Bagshaw Title: President and Treasurer

**ELECTRO SCIENTIFIC INDUSTRIES, INC.** as a Grantor

DocuSigned by: Setli H. Bagshaw Name: Seth H. Bagshaw By:

Name: Seth H. Bagshaw Title: President and Treasurer

[Signature Page to Intellectual Property Security Agreement Supplement]

PATENT REEL: 062446 FRAME: 0368

# JPMORGAN CHASE BANK, N.A.,

as the Collateral Agent

By:

Name: Timothy Lee Title: Executive Director

[Signature Page to Intellectual Property Security Agreement Supplement]

PATENT REEL: 062446 FRAME: 0369

## Schedule A

# UNITED STATES PATENTS AND PATENT APPLICATIONS

Ref.	Case	Owner	Title	Status	Appl. No.	Filed	Patent No.	Issued
E306-P4		Electro Scientific Industries, Inc.	OPTICAL POWER EQUALIZATION FOR THERMAL STABILITY OF AODS	Pending	63/417,889	10/27/2022		
E307-P2		Electro Scientific Industries, Inc.	GERMANIUM AOD SYSTEM WITH PARALLEL AND PERPENDICULAR ORIENTATIONS	Pending	63/384,539	11/21/2022		
E315-P1		Electro Scientific Industries, Inc.	MODULAR INTEGRABLE HANDLER FOR LASER PROCESSING SYSTEMS	Pending	63/422,758	11/4/2022		
E314-P1		MKS Instruments, Inc.	RADICAL SENSING FOR PROCESS TOOL DIAGNOSTICS	Pending	63/383,955	11/16/2022		
E316-P1		MKS Instruments, Inc.	GAS CONCENTRATION SENSOR AND METHOD OF USING THE SAME	Pending	62/432,609	12/14/2022		
3197-000134-US- COB		MKS Instruments, Inc.	Apparatus and Tuning Method for Mitigating RF Load Impedance Variations due to Periodic Disturbances	Pending	17/979,129	11/2/2022		
3197-000137-US- COB		MKS Instruments, Inc.	Switched Capacitor Modulator	Pending	17/993,498	11/23/2022		
5089.3110-000		MKS Instruments, Inc.	Method and Apparatus for Mass Flow Control	Pending	63/433,310	12/16/2022		
5089.3109-000		MKS Instruments, Inc.	Pirani Gauge	Pending	18/045,685	10/11/2022		
3197-000143-US		MKS Instruments, Inc.	Pulse and Bias Synchronization Methods and Systems	Pending	18/084,696	12/20/2022		
E304-US		MKS Instruments, Inc.	DISSOLVED AMMONIA DELIVERY SYSTEM AND METHODS OF USE	Pending	18/079,338	12/12/2022		

0236-800ITA-21UT	MKS	Multi-Phase Power Supply	Pending	17/973,267	10/25/2022	
	Instruments,	with Power Factor				
	Inc.	Correction for Magnetrons				
0246-100IRV-22P	Newport	Self-Centering Female	Pending	63/412,928	10/4/2022	
	Corporation	Optical Fiber Connector				

### Schedule B

# UNITED STATES TRADEMARK AND SERVICE MARK REGISTRATIONS AND APPLICATIONS

Ref	Trademark	Owner	Status	App. No.	Filing Date	Reg. No.	Reg. Date
T0205-US1	GEODE	Electro Scientific Industries, Inc.	Filed	97/671,525	11/10/2022		
T0822-US1	Surround the Wafer	MKS Instruments, Inc.	Filed	97/723,378	12/19/2022		

# Schedule C

# UNITED STATES COPYRIGHT REGISTRATIONS AND APPLICATIONS AND EXCLUSIVE COPYRIGHT LICENSES

None.

ACTIVEUS 197635663v.2

PATENT REEL: 062446 FRAME: 0373

RECORDED: 01/20/2023