## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 Assignment ID: PATI854736

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

## **CONVEYING PARTY DATA**

Name	Execution Date
MKS Instruments, Inc.	02/27/2025
Electro Scientific Industries, Inc.	02/27/2025
Newport Corporation	02/27/2025

## **RECEIVING PARTY DATA**

Company 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: 20**

Property Type	Number
Application Number:	18841066
Application Number:	18797580
Application Number:	18795887
Application Number:	18729604
Application Number:	63673196
Application Number:	18475515
Application Number:	18793448
Application Number:	18825455
Application Number:	18840974
Application Number:	63699180
Application Number:	63723612
Application Number:	18867671
Application Number:	63723784
Application Number:	63736012
Application Number:	63728216
Application Number:	63735334
Application Number:	18948593

PATENT REEL: 070356 FRAME: 0789

509052563

Property Type	Number
Application Number:	63714829
Application Number:	18954093
Application Number:	18925907

## **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:** 2123186000

Email: JeffreyNegron@PaulHastings.com

Correspondent Name: Jeffrey M. Negron Address Line 1: Paul Hastings LLP Address Line 2: 200 Park Avenue

Address Line 4: New York, NEW YORK 10166

NAME OF SUBMITTER: Mitchell Garrett	
SIGNATURE:	/Mitchell Garrett/
DATE SIGNED:	02/27/2025

### **Total Attachments: 10**

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#### INTELLECTUAL PROPERTY AGREEMENT SUPPLEMENT

This INTELLECTUAL PROPERTY SECURITY AGREEMENT SUPPLEMENT (this "IP Security Agreement Supplement") dated February 27, 2025, is made by the Person listed on the signature page hereof (the "Grantor") in favor of JPMORGAN CHASE BANK, N.A., as collateral agent (the "Collateral Agent") for the Secured Parties (as defined in the Credit Agreement referred to below).

WHEREAS, MKS INSTRUMENTS, INC., a Massachusetts corporation (the "Parent Borrower") 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 "Credit Agreement"), 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 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 "<u>Additional Collateral</u>"):
  - (i) the patents and patent applications set forth in Schedule A hereto (the "Patents");
  - (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 "Copyrights");
  - (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

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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. Security for Obligations. 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. Grants, Rights and Remedies. 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.

#### Section 7. Governing Law; Jurisdiction; Etc.

- (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 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.
- (e) 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

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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: kathleen F. Burke

Title: Executive Vice President, General

Counsel and Secretary

ELECTRO SCIENTIFIC INDUSTRIES, INC.,

as a Grantor

DocuSigned by:

Kathleen F. Burke Name: Kathleen F. Burke

Title: Secretary

**NEWPORT CORPORATION,** 

as a Grantor

By: Name: Kathleen F. Burke

Title: Secretary

JPMORGAN CHASE BANK, N.A,

as the Collateral Agent

By:

Name: Timothy D. Lee Title: Executive Director

**REEL: 070356 FRAME: 0796** 

Schedule A
UNITED STATES PATENTS AND PATENT APPLICATIONS

Patent: Patent	Applicant	Title	Application	Filing Date	Issue Date
ID			Number		
		LASER AMPLIFIER			
		UTILIZING			
		MULTIPLE END			
		PUMP SPOTS AND			
	Newport	METHOD OF	10/01/10/5		
E309-PC-US	Corporation	MANUFACTURE	18/841,066	8/23/2024	
		METHODS FOR			
	E1 . C	DRILLING VIAS IN			
E200 11G2	Electro Scientific	TRANSPARENT	10/707 500	0/0/2024	
E280-US2	Industries, Inc.	MATERIALS	18/797,580	8/8/2024	
		HIGH ACCURACY			
	MIZC	DETECTOR FOR			
00727-US	MKS Instruments, Inc.	NON-SINUSOIDAL	19/705 997	8/6/2024	
00727-05	instruments, inc.	GENERATOR GERMANIUM AOD	18/795,887	8/6/2024	
		SYSTEM WITH			
		PARALLEL AND			
	Electro Scientific	PERPENDICULAR			
E307-US1	Industries, Inc.	ORIENTATIONS	18/729,604	7/17/2024	
L307-031	maustres, me.	RADICAL SPECIES	16/725,004	7/11/2024	
		DETECTION VIA			
	MKS	PARAMAGNETIC			
00696-USP2	Instruments, Inc.	GAS PROPERTIES	63/673,196	7/19/2024	
00000 0512	MKS	Gris Trot Elettes	027072,170	771372021	
5089.3100-008	Instruments, Inc.	LOAD-LOCK GAUGE	18/475,515	9/27/2023	8/6/2024
	MKS		10, 110,010	7,2,,2,2	0, 0, 2 0 2 1
5089.3100-009	Instruments, Inc.	LOAD-LOCK GAUGE	18/793,448	8/2/2024	
	,	INVERETED PLASMA	,		
	MKS	SOURCE, AND			
E323-US2	Instruments, Inc.	METHOD	18/825,455	9/5/2024	
		METHOD AND			
		APPARATUS FOR			
		THERMALLY			
	Electro Scientific	STABLE OPERATION			
E306-US1	Industries, Inc.	OF AODS	18/840,974	8/23/2024	
	Newport	Optical Breadboard and			
00763-USP	Corporation	Related Structures	63/699,180	9/26/2024	
		DEVICES AND			
		METHODS TO			
		REDUCE OPTICAL			
		DAMAGE IN			
		MULTIPHOTON			
	Newport	MICROSCOPY WITH			
00772-USP	Corporation	A SCAN	63/723,612	11/22/2024	

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		SYNCHRONIZED		
		LASER PULSE		
		REPETITION RATE		
		LASER PROCESSING		
		APPARATUS		
		INCLUDING LASER		
		SENSOR SYSTEM		
		AND METHODS OF		
		MEASUREMENT OF		
	Electro Scientific	BEAM		
E298-W01-US	Industries, Inc.	CHARACTERISTICS	18/867,671	11/20/2024
	,	MULTI-		
	Electro Scientific	DIMENSIONAL		
MB-0001-P3	Industries, Inc.	BEAM SCANNING	63/723,784	11/22/2024
		Phase-Switched		
		Impedance Modulation		
	MKS	(PSIM) Techniques and		
00777-USP	Instruments, Inc.	Modular Architectures	63/736,012	12/19/2024
		Tuning PA Delay Times		
	MKS	for Optimized		
00780-USP	Instruments, Inc.	Waveshapes	63/728,216	12/5/2024
	Newport			
00784-USP	Corporation	Optical Filter Assembly	63/735,334	12/18/2024
		Apparatus and Tuning		
		Method for Mitigating		
		RF Load Impedance		
3197-000134-	MKS	Variations Due to		
US-COB2	Instruments, Inc.	Periodic Disturbances	18/948,593	11/15/2024
		SYSTEM AND		
		METHOD FOR		
		REDUCING		
	NATIO	INTERMODULATION		
00505 1155	MKS	DISTORTION IN A	(0/51 / 000	10/01/0004
00797-USP	Instruments, Inc.	PLASMA CHAMBER	63/714,829	10/31/2024
	MIZO	THERMAL		
5000 2017 016	MKS	CAUCE	10/05/1002	11/20/2024
5089.3017-016	Instruments, Inc.	GAUGE	18/954,093	11/20/2024
	MVC	Methods and Apparatus		
00764 116	MKS	for Diagnosis on Mass	19/025 007	10/24/2024
00764-US	Instruments, Inc.	Flow Controller	18/925,907	10/24/2024

## Schedule B

# UNITED STATES TRADEMARK AND SERVICE MARK REGISTRATIONS AND APPLICATIONS

None.

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## Schedule C

## UNITED STATES COPYRIGHT REGISTRATIONS AND APPLICATIONS AND EXCLUSIVE COPYRIGHT LICENSES

None.

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**RECORDED: 02/27/2025**