

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT7986273

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
ENTEGRIS, INC.	06/01/2023
CMC MATERIALS LLC	06/01/2023

RECEIVING PARTY DATA

Name:	MORGAN STANLEY SENIOR FUNDING, INC., AS COLLATERAL AGENT
Street Address:	1300 THAMES STREET, 4TH FLOOR
City:	BALTIMORE
State/Country:	MARYLAND
Postal Code:	21231

PROPERTY NUMBERS Total: 79

Property Type	Number
Patent Number:	11384879
Patent Number:	11618016
Application Number:	17550740
Application Number:	17558381
Application Number:	17559906
Application Number:	17564842
Application Number:	17579487
Application Number:	17584379
Application Number:	17585971
Application Number:	17586834
Application Number:	17681186
Application Number:	17689610
Application Number:	17690388
Application Number:	17695284
Application Number:	17696101
Application Number:	17698104
Application Number:	17698207
Application Number:	17701093
Application Number:	17702889

PATENT

Property Type	Number
Application Number:	17707756
Application Number:	17708054
Application Number:	17708999
Application Number:	17720580
Application Number:	17724992
Application Number:	17725473
Application Number:	17726079
Application Number:	17727133
Application Number:	17727668
Application Number:	17732136
Application Number:	17732446
Application Number:	17732472
Application Number:	17736855
Application Number:	17737627
Application Number:	17738352
Application Number:	17738518
Application Number:	17743080
Application Number:	17744240
Application Number:	17747731
Application Number:	17749868
Application Number:	17827243
Application Number:	17827423
Application Number:	17829007
Application Number:	17833024
Application Number:	17835716
Application Number:	17837710
Application Number:	17838024
Application Number:	17839208
Application Number:	17840394
Application Number:	17840367
Application Number:	17840448
Application Number:	17842109
Application Number:	17843021
Application Number:	17846929
Application Number:	17847088
Application Number:	17846936
Application Number:	17847077
Application Number:	17854473

Property Type	Number
Application Number:	17855603
Application Number:	17859953
Application Number:	17867530
Application Number:	17871249
Application Number:	17871579
Application Number:	17882199
Application Number:	17888305
Application Number:	17893658
Application Number:	17894905
Application Number:	17896964
Application Number:	17898179
Application Number:	17900693
Application Number:	17900713
Application Number:	17901569
Application Number:	17940517
Application Number:	17944904
Application Number:	17945594
Application Number:	17945849
Application Number:	17949956
Application Number:	17895967
Application Number:	17902210
Application Number:	17972509

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: 8004945225

Email: ipteam@cogencyglobal.com

Correspondent Name: STEWART WALSH

Address Line 1: 1025 CONNECTICUT AVE NW, SUITE 712

Address Line 2: COGENCY GLOBAL INC.

Address Line 4: WASHINGTON, D.C. 20036

ATTORNEY DOCKET NUMBER:	2022219 PAT
NAME OF SUBMITTER:	SHARIF HAMIDI
SIGNATURE:	/Sharif Hamidi/
DATE SIGNED:	06/02/2023

Total Attachments: 9
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PATENT AND TRADEMARK SECURITY AGREEMENT dated as of June 1, 2023 (this “Agreement”), among ENTEGRIS, INC., a Delaware corporation, the OTHER GRANTORS from time to time party hereto and MORGAN STANLEY SENIOR FUNDING, INC., as Collateral Agent.

Reference is made to (a) the Credit and Guaranty Agreement dated as of November 6, 2018, as amended and restated as of July 6, 2022 (as it may be further amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “Credit Agreement”), among Entegris Inc., a Delaware corporation (the “Company”), certain Subsidiaries of the Company party thereto, the Lenders party thereto and Morgan Stanley Senior Funding, Inc., as Administrative Agent and Collateral Agent, and (b) the Pledge and Security Agreement referred to therein. The Lenders have agreed to extend credit to the Company subject to the terms and conditions set forth in the Credit Agreement. The Grantors party hereto are (or are Affiliates of) the Company, will derive substantial benefits from the extension of credit to the Company pursuant to the Credit Agreement and are willing to execute and deliver this Agreement in order to induce the Lenders to extend such credit or as consideration for credit previously extended continuing to be outstanding. Accordingly, the parties hereto agree as follows:

SECTION 1. Terms. Each capitalized term used but not otherwise defined herein shall have the meaning specified in the Credit Agreement or the Collateral Agreement, as applicable. The rules of construction specified in Section 1.3 of the Credit Agreement also apply to this Agreement, mutatis mutandis.

SECTION 2. Grant of Security Interest. As security for the payment and performance in full of the Obligations, each Grantor pursuant to the Collateral Agreement did, and hereby does, grant to the Collateral Agent, its successors and assigns, for the benefit of the Secured Parties, a security interest in all of such Grantor’s right, title and interest in, to and under any and all of the following assets now owned or at any time hereafter acquired by such Grantor or in, to or under which such Grantor now has or at any time hereafter may acquire any right, title or interest (collectively, the “Patent and Trademark Collateral”):

(a) (i) all letters patent of the United States of America or the equivalent thereof in any other country, all registrations and recordings thereof and all applications for letters patent of the United States of America or the equivalent thereof in any other country or any political subdivision thereof, including registrations, recordings and pending applications in the United States Patent and Trademark Office or any similar offices in any other country or any political subdivision thereof, including, in the case of any Grantor, any of the foregoing set forth under its name on Schedule I hereto, and (ii) all reissues, continuations, divisionals, continuations-in-part, reexaminations, supplemental examinations, inter partes reviews, renewals, adjustments or extensions thereof, and the inventions disclosed or claimed therein, including the right to make, have made, use, sell, offer to sell, import or export the inventions disclosed or claimed therein; and

(b) (i) all trademarks, service marks, trade names, corporate names, company names, business names, fictitious business names, trade styles, trade dress, logos, domain names, global top level domain names, other source or business identifiers, designs and general intangibles of like nature, all registrations and recordings thereof, and all registration and recording applications filed in connection therewith, including registrations and registration applications in the United States Patent and Trademark Office or any similar office in any State of the United States of America or any other country or any political subdivision thereof, all extensions or renewals thereof, and all common law rights related thereto, including, in the case of any Grantor, any of the foregoing set forth under its name on Schedule II hereto, (ii) all goodwill associated therewith or symbolized thereby and (iii) all other assets, rights and interests that uniquely reflect or embody such goodwill.

SECTION 3. Collateral Agreement. The security interests granted to the Collateral Agent herein are granted in furtherance of, and not in limitation of, the security interests granted to the Collateral Agent pursuant to the Collateral Agreement. Each Grantor hereby acknowledges and affirms that the rights and remedies of the Collateral Agent with respect to the Patent and Trademark Collateral are more fully set forth in the Collateral Agreement, the terms and provisions of which are hereby incorporated herein by reference as if fully set forth herein. In the event of any conflict between the terms of this Agreement and the Collateral Agreement, the terms of the Collateral Agreement shall govern.

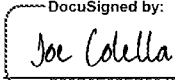
SECTION 4. Counterparts. This Agreement may be executed in counterparts (and by different parties hereto on different counterparts), each of which shall constitute an original but all of which when taken together shall constitute a single contract. Delivery of an executed counterpart of a signature page of this Agreement by fax, emailed .pdf or any other electronic means that reproduces an image of the actual executed signature page shall be effective as delivery of a manually executed counterpart of this Agreement.

SECTION 5. Incorporation by Reference. The provisions of Sections 6.02, 6.04, 6.05, 6.08, 6.09 and 6.10 of the Collateral Agreement are hereby incorporated by reference herein as if set forth in full force herein, mutatis mutandis.

[Signature Page Follows]

IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement as of the day and year first above written.

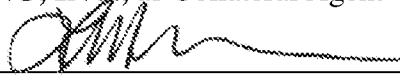
**ENTEGRIS, INC.,
CMC MATERIALS LLC,
INTERNATIONAL TEST
SOLUTIONS, LLC,**
each as a Grantor

By:  _____
DocuSigned by:
C30D9E88ED5843D...
Name: Joseph Colella
Title: Senior Vice President,
General Counsel and Secretary

[Signature Page to Patent and Trademark Security Agreement]

**PATENT
REEL: 063857 FRAME: 0205**

**MORGAN STANLEY SENIOR
FUNDING, INC.**, as Collateral Agent

By:  _____

Name: Lisa Hanson
Title: Vice President

SCHEDULE I

PATENTS

Patents and Patent Applications

Registered Owner	Title	Registration / Application Number	Date Filed
Entegris, Inc.	Fluid Circuit with Integrated Electrostatic Discharge Mitigation	11384879	11/5/2015
Entegris, Inc.	Grafted Polysulfone Membranes	11618016	10/18/2021
Entegris, Inc.	Gas Storage Systems And Method Thereof	17/550,740	12/14/2021
Entegris, Inc.	Electrostatic Chuck Prepared By Additive Manufacturing, And Related Methods And Structures	17/558,381	12/21/2021
Entegris, Inc.	Selective Removal Of Metal Oxide Hard Masks	17/559,906	12/22/2021
Entegris, Inc.	Remote Optimization Of Purge Flow Rates In A Container	17/564,842	12/29/2021
Entegris, Inc.	High Throughput Deposition Process	17/579,487	1/19/2022
Entegris, Inc.	Metal-Organic-Framework-Containing Bodies And Related Methods	17/584,379	1/25/2022
Entegris, Inc.	Process For Preparing Organotin Compounds	17/585,971	1/27/2022
Entegris, Inc.	Process For Preparing Organotin Compounds	17/586,834	1/28/2022
Entegris, Inc.	Solids Vaporizer	17/681186	2/25/2022
Entegris, Inc.	Gas Storage And Dispensing Container And A Method Of Dispensing Therefrom	17/689,610	3/8/2022
Entegris, Inc.	Semiconductor Substrate Carrying Container With Front And Rear Openings	17/690,388	3/9/2022
Entegris, Inc.	Automatable Closure	17/695,284	3/15/2022
Entegris, Inc.	Substrate With Fluorinated Yttrium Coatings, And Methods Of Preparing And Using The Substrates	17/696,101	3/16/2022
Entegris, Inc.	Bag Holder For Plate Freezing	17/698,104	3/18/2022
Entegris, Inc.	Bag Holder For Blast Freezing	17/698,207	3/18/2022
Entegris, Inc.	Welded Check Valve	17/701,093	3/22/2022
Entegris, Inc.	Suspension For Chemical Mechanical Planarization (CMP) And Method Employing The Same	17/702,889	3/24/2022
Entegris, Inc.	Liquid Purification Membrane Including Carbonaceous Materials And Methods Of Forming Them	17/707,756	3/29/2022
Entegris, Inc.	Suspension For Chemical Mechanical Planarization (CMP) And Method Employing The Same	17/708,054	3/30/2022
Entegris, Inc.	Low Temperature Deposition Process	17/708,999	3/30/2022
Entegris, Inc.	Cleaning Composition	17/720,580	4/14/2022
Entegris, Inc.	Method For Purifying Iodosilanes	17/724,992	4/20/2022

Registered Owner	Title	Registration / Application Number	Date Filed
Entegris, Inc.	Lift Wheel Lock For Installing And/Or Removing Vaporizer Vessels	17/725,473	4/20/2022
Entegris, Inc.	Silicon Precursor Compounds And Method For Forming Silicon-Containing Films	17/726,079	4/21/2022
Entegris, Inc.	High Quantum Efficiency Dry Resist For Low Exposure Dose Of EUV Radiation	17/727,133	4/22/2022
Entegris, Inc.	Fluid Circuit With Integrated Electrostatic Discharge Mitigation	17/727,668	4/22/2022
Entegris, Inc.	Electrostatic Discharge Mitigation Valve	17/732,136	4/28/2022
Entegris, Inc.	Vessels And Methods For Storing And Delivery A Reagent	17/732,446	4/28/2022
Entegris, Inc.	Filter Cartridge, Apparatus, And Methods	17/732,472	4/28/2022
Entegris, Inc.	Group VI Precursor Compounds	17/736,855	5/4/2022
Entegris, Inc.	Multistage Gas Sampling Trap And Detection Of Sulfurous Species Contaminant	17737627	5/5/2022
Entegris, Inc.	Deposition Process For Molybdenum Or Tungsten Materials	17738352	5/6/2022
Entegris, Inc.	Porous Poly(Cyclic Olefin) Membranes	17/738,518	5/6/2022
Entegris, Inc.	Selective Etchant Compositions And Methods	17/743,080	5/12/2022
Entegris, Inc.	Chemical Vapor Deposition Processes Using Ruthenium Precursor And Reducing Gas	17744240	5/13/2022
Entegris, Inc.	Wet Etching Composition And Method	17/747,731	5/18/2022
Entegris, Inc.	Compositions And Methods For Selectively Etching Silicon Nitride Films	17749868	5/20/2022
Entegris, Inc.	Semiconductor Substrate Carrying Container With Increased Diameter Purge Ports	17827243	5/27/2022
Entegris, Inc.	Aseptic Coupling Assembly And Method Of Aseptic Coupling	17827423	5/27/2022
Entegris, Inc.	Chemical Delivery System And Method Of Operating The Chemical Delivery System	17/829,007	5/31/2022
Entegris, Inc.	Filter Cartridge, And Method Of Retrofitting Filter Housing	17/833,024	6/6/2022
Entegris, Inc.	Wafer Container And Purge System	17/835,716	6/8/2022
Entegris, Inc.	Gas-Processing Systems And Methods	17/837,710	6/10/2022
Entegris, Inc.	Fluid Circuit With Integrated Electrostatic Discharge Mitigation	17/838,024	6/10/2022
Entegris, Inc.	Substrate Container With Door Gasket	17/839,208	6/13/2022
Entegris, Inc.	Poly(Quinoline) Membranes	17840394	6/14/2022
Entegris, Inc.	Chemical Resistant Multi-Layer Coatings Applied By Atomic Layer Deposition	17/840,367	6/14/2022
Entegris, Inc.	Grinding Of Hard Substrates	17/840,448	6/14/2022
Entegris, Inc.	Bonded Layer On Extreme Ultraviolet Plate	17/842,109	6/16/2022
Entegris, Inc.	Process For Preparing Organotin Compounds	17/843,021	6/17/2022
Entegris, Inc.	Polishing Of Transition Metals	17846929	6/22/2022

Registered Owner	Title	Registration / Application Number	Date Filed
Entegris, Inc.	Oleophobic Fluoropolymers And Filter Materials Prepared Therefrom	17847088	6/22/2022
Entegris, Inc.	Sintered Porous Body With Multiple Layers	17/846,936	6/22/2022
Entegris, Inc.	Oleophobic Fluoropolymers And Fibrous Materials Prepared Therefrom	17/847,077	6/22/2022
Entegris, Inc.	Method For Forming Carbon Rich Silicon-Containing Films	17/854,473	6/30/2022
Entegris, Inc.	Formulations For High Selective Silicon Nitride Etch	17/855,603	6/30/2022
Entegris, Inc.	Silicon Precursor Materials, Silicon-Containing Films, And Related Methods	17/859,953	7/7/2022
Entegris, Inc.	Methods For Applying A Blanket Polymer Coating To A Substrate	17/867,530	7/18/2022
Entegris, Inc.	Adsorbents And Methods For Reducing Contamination In Wafer Container Microenvironments	17/871,249	7/22/2022
Entegris, Inc.	Bag Holder For Freezing, Thawing, And Shipping	17/871,579	7/22/2022
Entegris, Inc.	Method For Selectively Removing Nickel Platinum Material	17/882,199	8/5/2022
Entegris, Inc.	Compositions And Methods For Reducing Interaction Between Abrasive Particles And A Cleaning Brush	17/888,305	8/15/2022
Entegris, Inc.	Rigid Frame Bags	17/893,658	8/23/2022
Entegris, Inc.	Apparatus And Methods For Clean Transfer Of Centrifuged Materials	17/894,905	8/24/2022
Entegris, Inc.	Precursor Delivery Systems, Precursor Supply Packages, And Related Methods	17/896,964	8/26/2022
Entegris, Inc.	Methods And Apparatus For Processing An Electrostatic Chuck	17/898,179	8/29/2022
Entegris, Inc.	Ligand-Modified Filter And Methods For Reducing Metals From Liquid Compositions	17/900,693	8/31/2022
Entegris, Inc.	Vaporizer Assembly	17/900,713	8/31/2022
Entegris, Inc.	Vapor Deposition Precursor Compounds And Process Of Use	17/901,569	9/1/2022
Entegris, Inc.	Reticle Pod Having Latch Including Ramped Surface	17/940,517	9/8/2022
Entegris, Inc.	Electrostatic Chuck And Related Methods And Structures	17/944,904	9/14/2022
Entegris, Inc.	Composite Adsorbent-Containing Bodies And Related Methods	17/945,594	9/15/2022
Entegris, Inc.	Storage And Delivery Vessels And Related Methods	17/945,849	9/15/2022
Entegris, Inc.	Method And Composition For Etching Molybdenum	17/949,956	9/21/2022

Registered Owner	Title	Registration / Application Number	Date Filed
CMC Materials, Inc.	CMP Composition Including An Anionic Abrasive	17/895967	8/25/2022
CMC Materials, Inc.	Textured CMP Pad Comprising Polymer Particles	17/902210	9/2/2022
CMC Materials, Inc.	Composition And Method For Cobalt CMP	17/972509	10/24/2022

SCHEDULE II
TRADEMARKS

Trademarks and Trademark Applications

Registered Owner	Title	Registration / Application Number	Date Filed
Entegris, Inc.	QUIKGRIP	97654664	10/31/2022
International Test Solutions, LLC	PROBE CLEAN	3,660,499	7/28/2009