

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5131905

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	MERGER
<b>EFFECTIVE DATE:</b>	08/26/2015
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
GEOMASS LIMITED LIABILITY COMPANY	08/26/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CHEMTRON RESEARCH LLC
<b>Street Address:</b>	160 GREENTREE DRIVE, SUITE 101
<b>City:</b>	DOVER
<b>State/Country:</b>	DELAWARE
<b>Postal Code:</b>	19904
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16125165
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(215)965-1331
<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>	215-965-1330
<b>Email:</b>	dporreca@panitchlaw.com
<b>Correspondent Name:</b>	PANITCH SCHWARZE BELISARIO & NADEL, LLP
<b>Address Line 1:</b>	TWO COMMERCE SQUARE
<b>Address Line 2:</b>	2001 MARKET STREET, SUITE 2800
<b>Address Line 4:</b>	PHILADELPHIA, PENNSYLVANIA 19103
<b>ATTORNEY DOCKET NUMBER:</b>	688824-202U12
<b>NAME OF SUBMITTER:</b>	JEFFREY W. GLUCK
<b>SIGNATURE:</b>	/Jeffrey W. Gluck/
<b>DATE SIGNED:</b>	09/10/2018
<b>Total Attachments: 9</b>	
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# Delaware

PAGE 1

*The First State*

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"ACEDIA SOLUTIONS LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"AEROMEE DEVELOPMENT L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"ARMSTRONG, QUINTON CO. LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"ATTAR DATA LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"BASCULE DEVELOPMENT AG LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"BEHEMOTH DEVELOPMENT CO. L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"BIORAM TECH L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"BURANI CONSULTING LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

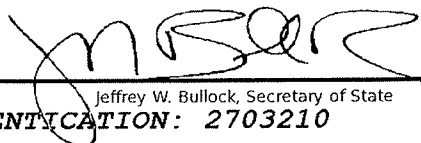
"CDA PROCESSING LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,



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151252912

You may verify this certificate online  
at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)

  
Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 2703210

DATE: 09-03-15

PATENT  
REEL: 046825 FRAME: 0282

# Delaware

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*The First State*

"CHAIPARA PTE., L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"CHASM BRIDGE TECHNOLOGIES LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"COLE CRUX L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"CONTRIA SAN LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"DAMON, LAREMIE PT. L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"DORAN TOUCH APP. LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"DOWNING PLACE LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"DU DIMENSIONAL LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"DUSCANEL GOFF GMBH. LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"GEOMASS LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

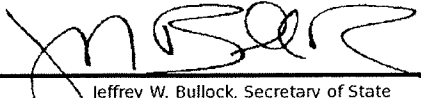
"GLITHOUBY MGMT. LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"GORMANDIZE LLC", A DELAWARE LIMITED LIABILITY COMPANY,

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Jeffrey W. Bullock, Secretary of State  
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PATENT  
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# Delaware

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*The First State*

"GRAPHIC PLATFORM DEVELOPMENT LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"HUAN FUND PTE. L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"HYALINE SCREEN LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"KDL SCAN DESIGNS LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"KELTON CAPITAL, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"KEY TRANS INVESTMENTS, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"KOAN FOUNDATION L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"LIGHT REFRACTURE LTD., LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"MARQUEE CODE, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"MINIM RESEARCH NY LLC", A DELAWARE LIMITED LIABILITY COMPANY,

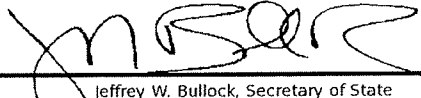
"MINT ACCESS FUND, LLC", A DELAWARE LIMITED LIABILITY COMPANY,



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# Delaware

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*The First State*

"MIST SILICON LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"MUSE GREEN INVESTMENTS LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"NEXUS NABOT RESEARCH L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"OCCLUDED FRONT ENTERPRISES L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"O.C.K. INVESTMENT B.V. LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"O'SHANTEL SOFTWARE L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"OUTLAND PRECIPICE CO. L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"PAMERA MANAGEMENT CO., LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"PILSNE RESEARCH CO, L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,


"PIQUANT RESEARCH LLC", A DELAWARE LIMITED LIABILITY COMPANY,

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Jeffrey W. Bullock, Secretary of State  
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PATENT  
REEL: 046825 FRAME: 0285

# Delaware

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*The First State*

"PM DUSK RESEARCH LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"POINT SOMEE LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"Q PARTICLE RESEARCH LTD. L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"ROWLAND NETWORK GROUP LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"RUCTION CAPITAL LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"SEMI GATE L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"SHARECOMM LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"SUBAUDITION WIRELESS LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"TWISTED REACH FACILTIES L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"VERUCA LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,


"WARPED PRISM LIMITED LIABILITY COMPANY", A DELAWARE LIMITED

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Jeffrey W. Bullock, Secretary of State  
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PATENT  
REEL: 046825 FRAME: 0286

# Delaware

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*The First State*

LIABILITY COMPANY,

"Y INDEED CONSULTING L.L.C.", A DELAWARE LIMITED LIABILITY COMPANY,

"ZERO KNOLL LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"2 RESTRESS LIMITED LIABILITY COMPANY", A DELAWARE LIMITED LIABILITY COMPANY,

"3233 VIA DUNHAM LLC", A DELAWARE LIMITED LIABILITY COMPANY,

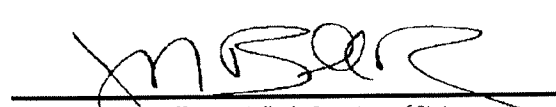
WITH AND INTO "CHEMTRON RESEARCH LLC" UNDER THE NAME OF "CHEMTRON RESEARCH LLC", A LIMITED LIABILITY COMPANY ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE THIRD DAY OF SEPTEMBER, A.D. 2015, AT 9:17 O'CLOCK A.M.

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You may verify this certificate online  
at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)



  
Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 2703210

DATE: 09-03-15

PATENT  
REEL: 046825 FRAME: 0287



**CERTIFICATE OF MERGER  
OF  
NON-SURVIVING ENTITIES LISTED BELOW  
INTO  
CHEMTRON RESEARCH LLC**

The undersigned entity, organized and existing under and by virtue of the Delaware Limited Liability Company Act, does hereby certify as follows:

1. The name and jurisdiction of formation of the constituent entities are as follows:

<u>Name</u>	<u>Jurisdiction of Formation</u>	<u>Type of Entity</u>
<i>The Surviving Entity:</i>		
Chemtron Research LLC	Delaware	Limited Liability Company
<i>The Non-Surviving Entities:</i>		
2 Restress Limited Liability Company	Delaware	Limited Liability Company
3233 Via Dunham LLC	Delaware	Limited Liability Company
Acedia Solutions Limited Liability Company	Delaware	Limited Liability Company
Aeromee Development L.L.C.	Delaware	Limited Liability Company
Armstrong, Quinton Co. LLC	Delaware	Limited Liability Company
Attar Data Limited Liability Company	Delaware	Limited Liability Company
Bascule Development AG LLC	Delaware	Limited Liability Company
Behemoth Development Co. L.L.C.	Delaware	Limited Liability Company
BioRam Tech L.L.C.	Delaware	Limited Liability Company
Burani Consulting Limited Liability Company	Delaware	Limited Liability Company
CDA Processing Limited Liability Company	Delaware	Limited Liability Company
Chaipara Pte., L.L.C.	Delaware	Limited Liability Company
Chasm Bridge Technologies LLC	Delaware	Limited Liability Company
Cole Crux L.L.C.	Delaware	Limited Liability Company
Contria San Limited Liability Company	Delaware	Limited Liability Company
Damon, Laremie Pt. L.L.C.	Delaware	Limited Liability Company
Doran Touch App. Limited Liability Company	Delaware	Limited Liability Company
Downing Place Limited Liability Company	Delaware	Limited Liability Company
Du Dimensional LLC	Delaware	Limited Liability Company
Duscanel Goff GmbH. LLC	Delaware	Limited Liability Company
Geomass Limited Liability Company	Delaware	Limited Liability Company
Glithouby Mgmt. LLC	Delaware	Limited Liability Company
Gormandize LLC	Delaware	Limited Liability Company
Graphic Platform Development LLC	Delaware	Limited Liability Company
Huan Fund Pte. L.L.C.	Delaware	Limited Liability Company
Hyaline Screen LLC	Delaware	Limited Liability Company

Phyllis Turner-Brim

E-signed 2015-08-26 01:00PM PDT

pturnerbrim@intven.com

Intellectual Ventures

VP Chief IP Counsel

Byron E Springer Jr

E-signed 2015-08-26 01:18PM PDT

bspringer@intven.com

*The Non-Surviving Entities- continuing*

	<b>Jurisdiction of Formation</b>	<b>Type of Entity</b>
KDL Scan Designs LLC	Delaware	Limited Liability Company
Kelton Capital, L.L.C.	Delaware	Limited Liability Company
Key Trans Investments, LLC	Delaware	Limited Liability Company
Koan Foundation L.L.C.	Delaware	Limited Liability Company
Light Refracture Ltd., LLC	Delaware	Limited Liability Company
Marquee Code, LLC	Delaware	Limited Liability Company
Minim Research NY LLC	Delaware	Limited Liability Company
Mint Access Fund, LLC	Delaware	Limited Liability Company
Mist Silicon Limited Liability Company	Delaware	Limited Liability Company
Muse Green Investments LLC	Delaware	Limited Liability Company
Nexus NaBot Research L.L.C.	Delaware	Limited Liability Company
O.C.K. Investment B.V. LLC	Delaware	Limited Liability Company
Occluded Front Enterprises L.L.C.	Delaware	Limited Liability Company
O'Shantel Software L.L.C.	Delaware	Limited Liability Company
Outland Precipice Co. L.L.C.	Delaware	Limited Liability Company
Pamera Management Co., LLC	Delaware	Limited Liability Company
Pilsne Research Co, L.L.C.	Delaware	Limited Liability Company
Piquant Research LLC	Delaware	Limited Liability Company
PM Dusk Research Limited Liability Company	Delaware	Limited Liability Company
Point Somee Limited Liability Company	Delaware	Limited Liability Company
Q Particle Research Ltd. L.L.C.	Delaware	Limited Liability Company
Rowland Network Group LLC	Delaware	Limited Liability Company
Ruction Capital Limited Liability Company	Delaware	Limited Liability Company
Semi Gate L.L.C.	Delaware	Limited Liability Company
Sharecomm Limited Liability Company	Delaware	Limited Liability Company
Subaudition Wireless LLC	Delaware	Limited Liability Company
Twisted Reach Facilities L.L.C.	Delaware	Limited Liability Company
Veruca Limited Liability Company	Delaware	Limited Liability Company
Warped Prism Limited Liability Company	Delaware	Limited Liability Company
Y Indeed Consulting L.L.C.	Delaware	Limited Liability Company
Zero Knoll Limited Liability Company	Delaware	Limited Liability Company

2. An agreement of merger has been approved and executed by each of the constituent entities in accordance with Section 18-209 of the Delaware Limited Liability Company Act.

3. The name of the surviving entity is Chemtron Research LLC

4. The Certificate of Formation of Chemtron Research LLC shall be the Certificate of Formation of the surviving limited liability company.

5. The executed agreement of merger is on file at the principal place of business of the surviving entity located at 3150 139th Avenue SE, Building 4, Bellevue, Washington 98005.

Phyllis Turner-Brim

E-signed 2015-08-26 01:00PM PDT

pturnerbrim@intven.com

Intellectual Ventures

VP Chief IP Counsel

Byron E Springer Jr

E-signed 2015-08-26 01:18PM PDT

bspringer@intven.com

6. A copy of the agreement of merger will be furnished by the surviving entity, on request and without cost, to any member of any constituent limited liability company.

IN WITNESS WHEREOF, the surviving limited liability company has caused this certificate to be signed by an authorized person, dated August 28, 2015.

**CHEMTRON RESEARCH LLC**

By: Byron E Springer Jr  
Byron E Springer Jr (Aug 26 2015)  
Name: Byron E Springer Jr  
Its: Assistant Secretary

Phyllis Turner-Brim  
E-signed 2015-08-26 01:00PM PDT  
pturnerbrim@intven.com  
Intellectual Ventures  
VP Chief IP Counsel

Byron E Springer Jr  
E-signed 2015-08-26 01:18PM PDT  
bspringer@intven.com