

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5111836

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SUMAN DAS	03/24/2014
DAJUN YUAN	03/27/2014
ANIRUDH RUDRARAJU	04/01/2014
PAUL CILINO	07/08/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	GEORGIA TECH RESEARCH CORPORATION
<b>Street Address:</b>	505 TENTH STREET, N.W.
<b>City:</b>	ATLANTA
<b>State/Country:</b>	GEORGIA
<b>Postal Code:</b>	30332-0415
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16113338
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(404)885-3900
<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>	(404)885-3000
<b>Email:</b>	uspto@troutman.com, beverly.hopkins@troutman.com
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<b>ATTORNEY DOCKET NUMBER:</b>	243938.27-DDM1CIPCONDIV
<b>NAME OF SUBMITTER:</b>	BRENNAN M. CARMODY
<b>SIGNATURE:</b>	/Brennan M. Carmody/
<b>DATE SIGNED:</b>	08/27/2018
<b>Total Attachments: 5</b>	
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## **ASSIGNMENT**

WHEREAS, We, Suman Das, Dajun Yuan, Anirudh Rudraraju, and Paul Cilino, (collectively referred to as "Assignors"), have invented certain improvements in **Systems and Methods for Fabricating Three-Dimensional Objects**, for which a US Non-Provisional Patent Application was filed 8 November 2013 and provided Serial No. 14/076,161, and which claims priority to 61/723,991 filed on 8 November 2012 and is a CIP of 12/435,776 filed on 05 May 2009, and for which future applications may be filed, (collectively referred to as the "Application"), and whereas

**GEORGIA TECH RESEARCH CORPORATION**  
**505 Tenth Street, N.W.**  
**Atlanta, Georgia 30332-0415**  
**United States**

("Assignee") desires to purchase all of Assignors' rights in same;

**NOW THEREFORE**, in consideration of the sum of One Dollar (\$1.00) and other good and valuable considerations paid by the said Assignee, the receipt and sufficiency of which are hereby acknowledged, Assignor has and by these presents does hereby sell, assign, transfer and convey unto said Assignee all of Assignors' rights, title, and interest in and to said Application, including in and to any conventional, division, continuation, continuation-in-part, substitution, reissue, renewal, reexam, continued prosecution application ("CPA"), or request for continued examination ("RCE") thereof, and in and to all inventions and improvements thereon (herein collectively referred to as "Related US Applications"), preparatory to obtaining Letters Patent of the United States therefore; and Assignor hereby request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States resulting from said Application and Related US Applications, to Assignee, for its interest and for the sole use and benefit of Assignee and its assigns and legal representatives.

**For the same consideration**, Assignor, by these presents do sell, assign, and transfer to Assignee all of Assignors' rights, title and interest in and to any foreign and international applications related to and/or seeking benefit of said Application and Related US Applications, and in and to all inventions and improvements thereon (herein collectively referred to as "Related Foreign Applications"), in and to any Letters Patent and similar protective rights granted on said Related Foreign Applications, and in and to the right to claim any applicable priority rights arising from or required for said Related Foreign Applications under the terms of any applicable conventions, treaties, statutes, or regulations, said Related Foreign Applications to be filed and issued in the name of Assignee or its designee, insofar as permitted by applicable law.

**For the same consideration**, Assignor agree, without charge to Assignee, but at Assignee's expense, to sign all lawful papers, execute said Application, Related US Applications and Related Foreign Applications, make all assignments and rightful oaths, assist in prosecution of said Application, Related US Applications and Related Foreign Applications, assist in prosecution of legal proceedings, and generally do everything reasonably possible to aid Assignee its successors, assigns, and nominees, to obtain and enforce proper protection for all said inventions and improvements in all countries throughout the world.

AND, for the same consideration, Assignor also hereby sell, assign and transfer unto Assignee all of Assignors' rights and claims to sue for damages and other remedies with respect to any and all past infringement of all said Application, Related US Applications, and Related Foreign Applications, including said inventions and improvements which may have occurred before the date of this Assignment.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 24<sup>th</sup> day of MARCH, 2014.

Suman Das (SEAL)  
Suman Das

Witnessed by: Michael Middlemas  
Signature

Date: March 24, 2014

Michael Middlemas  
Printed Name of Witness

Witnessed by: Marvin M. Kilgo III  
Signature

Date: 3.24.2014

MARVIN M. KILGO III  
Printed Name of Witness

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SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY

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IN WITNESS WHEREOF, I have hereunto set my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 2014.

\_\_\_\_\_  
(SEAL)  
Suman Das

State of \_\_\_\_\_

County of \_\_\_\_\_

On this \_\_\_\_ day of \_\_\_\_\_, 2014, before me, a notary public, came to me known and known to be the individual described in and who executed the foregoing assignment, and he duly acknowledged the same to be his free act and deed.

\_\_\_\_\_  
NOTARY PUBLIC

(SEAL)

My Commission Expires:

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 27 day of 03, 2014.

[Signature] (SEAL)  
Dajun Yuan

Witnessed by: Wenxiong Li  
Signature

Date: 03/27/2014

Wenxiong Li  
Printed Name of Witness

Witnessed by: [Signature]  
Signature

Date: 03/27/2014

Boyan Zhang  
Printed Name of Witness

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IN WITNESS WHEREOF, I have hereunto set my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 2014.

\_\_\_\_\_  
(SEAL)  
Dajun Yuan

State of \_\_\_\_\_

County of \_\_\_\_\_

On this \_\_\_\_ day of \_\_\_\_\_, 2014, before me, a notary public, came to me known and known to be the individual described in and who executed the foregoing assignment, and he duly acknowledged the same to be his free act and deed.

\_\_\_\_\_  
NOTARY PUBLIC

(SEAL)

My Commission Expires:

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 1<sup>st</sup> day of April, 2014.

R. Anirudh Varma

(SEAL)

**Anirudh Rudraraju**

Witnessed by: [Signature]

Signature

Date: 4/1/2014

Seth Morton

Printed Name of Witness

Witnessed by: [Signature]

Signature

Date: 4/1/2014

CHANDRASHEKHAR VARANASI

Printed Name of Witness

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IN WITNESS WHEREOF, I have hereunto set my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 2014.

(SEAL)

**Anirudh Rudraraju**

State of \_\_\_\_\_

County of \_\_\_\_\_

On this \_\_\_\_ day of \_\_\_\_\_, 2014, before me, a notary public, came to me known and known to be the individual described in and who executed the foregoing assignment, and he duly acknowledged the same to be his free act and deed.

\_\_\_\_\_  
NOTARY PUBLIC

(SEAL)

My Commission Expires:

IN WITNESS WHEREOF, I have hereunto set my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_, 2014.

\_\_\_\_\_  
Paul Cilino (SEAL)

Witnessed by: \_\_\_\_\_  
Signature

Date: \_\_\_\_\_

\_\_\_\_\_  
Printed Name of Witness

Witnessed by: \_\_\_\_\_  
Signature

Date: \_\_\_\_\_

\_\_\_\_\_  
Printed Name of Witness

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IN WITNESS WHEREOF, I have hereunto set my hand and seal this 8<sup>TH</sup> day of JULY, 2014.

\_\_\_\_\_  
Paul Cilino (SEAL)

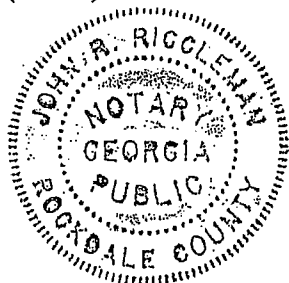
State of GA

County of ROCKDALE

On this 8 day of JULY, 2014, before me, a notary public, came to me known and known to be the individual described in and who executed the foregoing assignment, and he duly acknowledged the same to be his free act and deed.

\_\_\_\_\_  
NOTARY PUBLIC

(SEAL)



My Commission Expires:

Notary Public, Rockdale County, Georgia  
My Commission Expires July 27, 2017