506588510 04/01/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6635292

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
THE PENN STATE RESEARCH FOUNDATION	03/26/2021

RECEIVING PARTY DATA

Name:	GREENE, TWEED TECHNOLOGIES, INC.	
Street Address:	1105 NORTH MARKET STREET	
Internal Address:	SUITE 1300	
City:	WILMINGTON	
State/Country:	DELAWARE	
Postal Code:	19801	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17219117

CORRESPONDENCE DATA

Fax Number: (856)267-5370

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: 8564466045

Email: LCALDERONE@CALDERONEBULLOCK.COM

Correspondent Name: LYNDA L. CALDERONE

Address Line 1: TWO GREENTREE CENTRE, 9000 LINCOLN DRIVE EAST

Address Line 2: **SUITE 301**

Address Line 4: MARLTON, NEW JERSEY 08053

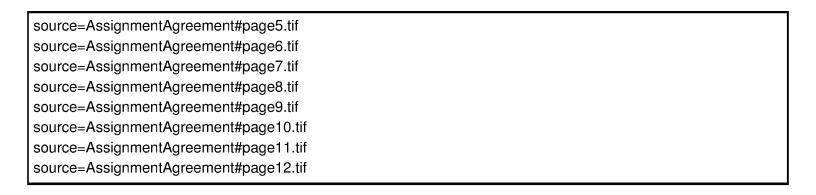
ATTORNEY DOCKET NUMBER:	G0623-1273U1
NAME OF SUBMITTER:	LYNDA L. CALDERONE
SIGNATURE:	/Lynda L. Calderone/
DATE SIGNED:	04/01/2021

Total Attachments: 12

source=AssignmentAgreement#page1.tif source=AssignmentAgreement#page2.tif source=AssignmentAgreement#page3.tif source=AssignmentAgreement#page4.tif

> **PATENT** REEL: 055797 FRAME: 0637

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PATENT REEL: 055797 FRAME: 0638

INTELLECTUAL PROPERTY ASSIGNMENT AGREEMENT

This Intellectual Property Assignment Agreement (this "Assignment Agreement"), effective upon the date of last signature (the "Effective Date"), is by and between The Penn State Research Foundation ("PSRF"), a non-profit corporation duly organized and existing under the laws of the Commonwealth of Pennsylvania and having an office at 304 Old Main, University Park, PA 16802 and GT Services LLC, a company registered in Delaware, with a principal place of business at 1684 South Broad Street, PO Box 1307, Lansdale PA 19446 ("Company") and Greene, Tweed Technologies, Inc., a company registered in Delaware, with a principal place of business at Suite 1300, Wilmington, Delaware 19801 ("Assignee")..

WITNESSETH

WHEREAS, Company and The Pennsylvania State University ("University") entered into that Sponsored Research Agreement #223704 effective on July 2nd, 2019 and extended by Sponsored Research Agreement #238054 effective on September 1, 2020;

WHEREAS, under the terms of the Sponsored Research Agreement, Company has the option to receive ownership of Intellectual Property (as defined in the Sponsored Research Agreement, which is provided as Appendix A) created during performance of the sponsored research project by University;

WHEREAS, PSRF is a wholly owned subsidiary of University and is University's designee to manage University's intellectual property;

WHEREAS, Greene, Tweed Technologies Inc, a Delaware corporation with a principal place of business at Suite 1300, Wilmington, Delaware 19801, is an affiliate of Company;

WHEREAS, Michael Hickner and Lachlan Peeke, employees of the University ("University Inventor") have made an invention entitled: "Additive Manufacturing of Reinforced Silicone Elastomers", filed as PSRF Invention Disclosure No. 2019-SRA026 as provided in Appendix B, and a Provisional Patent Application Serial No. 63/003,146, filed on March 31, 2020, by Assignee on behalf of Company, which are all Intellectual Property under the Sponsored Research Agreement;

WHEREAS, Company has informed University and PSRF that Company wishes its affiliate Greene, Tweed Technologies Inc.to receive ownership to the Intellectual Property;

WHEREAS, pursuant to the terms of the University's Intellectual Property Agreement, the University Inventors have assigned University Inventors' entire right, title, and interest in the Intellectual Property to PSRF;

NOW THEREFORE, in consideration of the premises and the mutual promises and covenants set forth below, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereby agree as follows:

ARTICLE I - THE ASSIGNMENT AND LICENSE

1.1 In consideration of the mutual understandings set forth above and the financial terms set forth in the Sponsored Research Agreement between University and Company, PSRF does hereby assign, transfer,

and convey all of its worldwide right, title, and interest in the Intellectual Property to Assignee and Assignee's successor(s). PSRF agrees for itself and on behalf of the University and University Inventors, at Assignee's expense, to execute all papers, give any required testimony, and perform other lawful acts, as Assignee may require to enable Assignee to perfect Assignee's interest in any resulting patent of the United States and countries foreign thereto, and to acquire, hold, enforce, convey, and uphold the validity of said patent and reissues and extensions thereof, and Assignee's interest therein.

- 1.2 Assignee and Assignee's successors grant to PSRF and University a perpetual, non-exclusive, royalty-free, non-revocable, and fully paid-up license to practice the Intellectual Property for research and educational purposes.
- 1.3 This Assignment Agreement shall not be construed to confer any rights upon Assignee by implication, estoppel or otherwise in the Intellectual Property or to any technology owned or controlled by PSRF which is not specifically set forth in this Assignment Agreement.

REDACTED

Page 2 of 6

ARTICLE VIII - MISCELLANEOUS PROVISIONS

- 8.1 This Assignment Agreement embodies the entire understanding of the parties and shall supersede all previous communications, representations, or undertakings, either verbal or written, between the parties relating to the subject matter hereof, except for as it relates to the Sponsored Research Agreement.
- 8.2 This Assignment Agreement may be amended only by a written agreement embodying the full terms of the amendment signed by authorized representatives of both parties.
- 8.3 Should any provision of this Assignment Agreement be held to be illegal, invalid or unenforceable, by any court of competent jurisdiction, such provision shall be modified by such court in compliance with the law and, as modified, enforced. The remaining provisions of this Assignment Agreement shall be construed in accordance with the modified provision and as if such illegal, invalid or unenforceable provision had not been contained herein.
- 8.4 The language used in this Assignment Agreement shall be deemed to be the language chosen by both parties to express their mutual intent and no rule of strict construction against either party shall apply to any term or condition of this Assignment Agreement.
- 8.5 Nothing contained in this Assignment Agreement shall be construed as creating a partnership, joint venture, agency or an association of any kind.
- 8.6 The failure of one party to enforce at any time any of the provisions of this Assignment Agreement, or any rights in respect thereto, or to exercise any election provided, shall in no way be considered to be a waiver of such provision, rights or elections or in any way to affect the validity of this Assignment Agreement, or excuse a similar subsequent failure to perform any such term or condition by the other party. Any waiver must be in writing.
- 8.7 The headings of several articles and paragraphs contained in this Assignment Agreement are inserted for convenience of reference only, and are not intended to be a part of or to affect the meaning or interpretation of this Assignment Agreement.

Page 4 of 6

- 8.8 This Assignment Agreement shall be governed by and construed in accordance with the laws of the United States of America and the Commonwealth of Pennsylvania without giving effect to any choice of law or conflict of law provision or rule that would cause the application of the laws of any jurisdiction other than the Commonwealth of Pennsylvania, except that questions affecting the construction and effect of any patent shall be determined by the law of the country in which the patent was granted.
- 8.9 This Assignment Agreement may be executed in any number of counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. Scanned copies of signatures or electronic images of signatures shall be considered original signature unless prohibited by applicable law.

IN WITNESS WHEREOF, the parties, intending to be legally bound hereby, have each caused a duly authorized representative to execute this Assignment Agreement on the day and year set forth below.

Greene, Tweed Technologies, Inc.
(Assignee)
All fill
By:
Name:Allon Bloch
Title: <u>Director</u>
Date:March 23, 2021
The Penn State Research Foundation (PSRF)
By: Mar Tollower (Mar 1911, 2001)
Name: <u>Harl R. Tolbert</u>
Title: <u>Director, Office of Technology Management</u>
Date: 26-Mar-2021
GT Services LLC (Company)
By:
Name: _Allon Bloch_
Title: <u>Chairman</u>
Date: March 23, 2021



SPONSORED RESEARCH AGREEMENT FIXED PRICE AGREEMENT #23704

THIS AGREEMENT, effective this 2nd day of 1nly 20 19 by and between The Pennsylvania State University (hereinafter referred to as "University") and 6 come. Tweet & Co. having a principal place of business at 1510 Gehman Road, Kulpsville, PA 19443 (hereinafter referred to as "Sponsor").
1. Period of Performance. Period of performance shall be from 09/01/2019 to as "Period of Performance"). (bereinafter referred
2. Research Work. As used herein, "Project" shall mean those the research described in Appendix A hereof, under the direction of Dr. Michael Bickner (hereinafter referred to as "Principal Investigator"). University shall commence the performance of Project on the first day of Period of Performance and shall use reasonable best efforts to perform Project substantially in accordance with the terms and conditions of this Agreement. The Principal Investigator shall furnish Sponsor with reports regarding Project. 3. Fiscal Considerations. This is a fixed price agreement. The total price of the Project will be \$REDACTED Payments shall be made in accordance with the payment schedule referenced in Appendix B. Sponsor shall be responsible for all collection costs associated with non-payment. University shall retain title to any equipment purchased with funds provided by Sponsor under this Agreement. In the event of early termination of this Agreement pursuant to Article 8 hereof, Sponsor shall pay all reasonable costs incurred and non-cancelable obligations incurred by University as of the date of termination.
4. Publicity. Neither party to this Agreement will use the name, trademarks, or logos of the other party or its employees, in any publicity, advertising, or news release without the prior written approval of an authorized representative of that party. 5. Confidentiality. As used herein, "Proprietary Information" shall mean any written information and data marked proprietary or non-written information and data disclosed which is identified at the time of disclosure as proprietary and is reduced to writing and transmitted to the other party within sixty (60) days of such non-written disclosure. Prior to disclosure of Proprietary Information to University by Sponsor, Sponsor shall notify Principal Investigator of its intern to disclose Proprietary Information; and Principal Investigator shall have the right to decline receipt of said information. Said Proprietary Information shall be sent only to Principal Investigator. Each party to this Agreement agrees to treat Proprietary Information received from the other with the same degree of care with which it treats its own Proprietary Information and further agrees not to disclose such Proprietary Information to a third party to Proprietary Information which is in the public domain, independently known, independently developed or obtained by University, or required by law or regulation to be disclosed. Unless otherwise agreed to in writing, the period of confidentiality shall be five (5) years from the date of receipt of Proprietary Information.
6. Publication. Sponsor acknowledges that University, subject to prior review by Sponsor, shall have the right to publish any results of the Project that do not disclose Proprietary Information. University agrees not to publish or otherwise disclose Proprietary Information. Sponsor shall be furnished copies of any proposed publication or presentation at least 60 days before submission of such proposed publication or presentation. During that time, Sponsor shall have the right to review the material for Proprietary Information provided by Sponsor and to assess the patentability of any invention described in the material. If Sponsor decides that a patent application should be filled, the publication or presentation shall be delayed an additional seventy-five (75) days or until a patent application is filled, whichever is sooner. At Sponsor's request, Proprietary Information provided by Sponsor shall be deleted. Notwithstanding the limitations of Article 4, the University reserves the right to identify its sponsors in academic publications. 7. Intellectual Property. As used herein, "Intellectual Property" shall mean those inventions and/or discoveries conceived and/or reduced to practice in performance of this Project and resulting patents, divisions, continuations, or substitutions of such applications and all reissues thereof, upon which a University employee or agent is a named inventor. Sponsor has the right to take ownership of Intellectual Property. University reserves the right to file a provisional patent application to protect intellectual Property to Sponsor in writing. Sponsor has ninety (90) days from the receipt of the disclosure to request University to assign ownership to Sponsor. In consideration for assigning ownership, Sponsor shall reimburse University for any patent protection costs incurred. REDACTED
University retains the right to use Intellectual Property for non-commercial research and educational purposes. In the event University background intellectual property is required to practice Intellectual Property, University will negotiate an option or license to the extent such rights are available.

REDACTED

14. General Provisions

- 14.1 Non-assignability. The rights and obligations of the parties under this Agreement shall not be assignable without written permission of the other party.
- 14.2 Severability. If any provision hereof is held unenforceable or void, the remaining provisions shall be enforced in accordance with their terms.
- 14.3 Entire Agreement. This Agreement contains the entire and only agreement between the parties respecting the subject matter hereof and supersedes or cancels all previous negotiations, agreements, commitments and writings between the parties on the subject of this Agreement. Should processing of this Agreement require issuance of a purchase order or other contractual document, all terms and conditions of said document are hereby deleted in entirety. This Agreement may not be amended in any manner except by an instrument in writing signed by the duly authorized representatives of each of the parties hereto.

REDACTED

IN WIT?	NESS WHEREOF, the parties hereto have caused these preser	nts to be	executed in duplicate as of the day and year first above
	Sphorized Official policy of the Land		Authorized Official of Spanson
Name:	Timothy M. Stodart	Name:	Aenry Smeber
Title:	Associate Director of Sponsored Programs	Title:	Sr VP Customer Operations
Date:	July 17, 2019	Date:	July 15, 2019

Page 2



SPONSORED RESEARCH AGREEMENT FIXED PRICE AGREEMENT #_ 238054

HIS ACREEMENT, effective this the day of september 30 2020, by and between The Pennsylvania State University (hereinafter
referred to as "University") and GT Services LLC having a principal place of business at. 1684 South Broad Street, PO Box 1307 Lausdale, PA 19446 (hereinafter referred to as "Sponsor").
1. Period of Performance. Period of performance shall be from 99/01/2020 to 02/28/2021 (hereinafter referred
to as "Period of Performance").
2. Research Work. As used herein, "Project" shall mean those the research described in Appendix A hereof, under the direction o
Dr. Michael Hickner (hereinafter referred to as "Principal Investigator"). University shall commence the performance of
Project on the first day of Period of Performance and shall use reasonable best efforts to perform Project substantially in accordance with
the terms and conditions of this Agreement. The Principal Investigator shall furnish Sponsor with reports regarding Project.
the terms and conditions of this Agreement. The Principal Investigator shall furnish Sponsor with reports regarding Project. 3. Fiscal Considerations. This is a fixed price agreement. The total price of the Project will be SREDACTED. Payments shall be
made in accordance with the payment schedule referenced in Appendix B. Sponsor shall be responsible for all collection costs associated
with non-payment. University shall retain title to any equipment purchased with funds provided by Sponsor under this Agreement. In the
event of early termination of this Agreement pursuant to Article 8 hereof, Sponsor shall pay all reasonable costs incurred and non-
cancelable obligations incurred by University as of the date of termination.
4. Publicity. Neither party to this Agreement will use the name, trademarks, or logos of the other party or its employees, in any publicity
advertising, or news release without the prior written approval of an authorized representative of that party.
5. Confidentiality. As used herein, "Proprietary Information" shall mean any written information and data marked proprietary or non
written information and data disclosed which is identified at the time of disclosure as proprietary and is reduced to writing an
transmitted to the other party within sixty (60) days of such non-written disclosure. Prior to disclosure of Proprietary Information to
University by Sponsor, Sponsor shall notify Principal Investigator of its intent to disclose Proprietary Information; and Principal
Investigator shall have the right to decline receipt of said information. Said Proprietary Information shall be sent only to Principa
Investigator. Each party to this Agreement agrees to treat Proprietary Information received from the other with the same degree of care
with which it treats its own Proprietary Information and further agrees not to disclose such Proprietary Information to a third party
without prior written consent from the party disclosing Proprietary Information. The foregoing obligations of non-disclosure do not apply
to Proprietary Information which is in the public domain, independently known, independently developed or obtained by University, or
required by law or regulation to be disclosed. Unless otherwise agreed to in writing, the period of confidentiality shall be five (5) years
from the date of receipt of Proprietary Information.
6. Publication. Sponsor acknowledges that University, subject to prior review by Sponsor, shall have the right to publish any results o
the Project that do not disclose Proprietary Information. University agrees not to publish or otherwise disclose Proprietary Information
Sponsor shall be furnished copies of any proposed publication or presentation at least 60 days before submission of such proposed
publication or presentation. During that time, Sponsor shall have the right to review the material for Proprietary Information provided by
Sponsor and to assess the patentability of any invention described in the material. If Sponsor decides that a patent application should be
filed, the publication or presentation shall be delayed an additional seventy-five (75) days or until a patent application is filed, whicheve
is sooner. At Sponsor's request, Proprietary Information provided by Sponsor shall be deleted. Notwithstanding the limitations o
Article 4, the University reserves the right to identify its sponsors in academic publications.
7. Intellectual Property. As used herein, "Intellectual Property" shall mean those inventions and/or discoveries conceived and/o
reduced to practice in performance of this Project and resulting patents, divisions, continuations, or substitutions of such applications and
all reissues thereof, upon which a University employee or agent is a named inventor. Sponsor has the right to take ownership o
intellectual Property. University reserves the right to file a provisional patent application to protect Intellectual Property in circumstances
where University has an expedited need to publish or present results. University will promptly disclose Intellectual Property to Sponsor
in writing. Sponsor has ninety (90) days from the receipt of the disclosure to request University to assign ownership to Sponsor. In
consideration for assigning ownership, Sponsor shall reimburse University for any patent protection costs incurred. REDACTED
REDACTED
University retains the right to use Intellectual Property for non-commercial research and
advicational surpasse. In the event University background intellectual property is required to practice Intellectual Property. University

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will negotiate an option or license to the extent such rights are available.

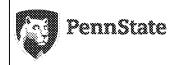
14. General Provisions

- 14.1 Non-assignability. The rights and obligations of the parties under this Agreement shall not be assignable without written permission of the other party.
- 14.2 Severability. If any provision hereof is held unenforceable or void, the remaining provisions shall be enforced in accordance with their terms
- 14.3 Entire Agreement. This Agreement contains the entire and only agreement between the parties respecting the subject matter hereof and supersedes or cancels all previous negotiations, agreements, commitments and writings between the parties on the subject of this Agreement. Should processing of this Agreement require issuance of a purchase order or other contractual document, all terms and conditions of said document are hereby deleted in entirety. This Agreement may not be amended in any manner except by an instrument in writing signed by the duly authorized representatives of each of the parties hereto.
- 14.4 Export Control Regulations. Both parties are subject to applicable U.S. export laws and regulations and shall use their reasonable best efforts to comply with any and all reporting or licensing requirements contained therein. Prior to delivery to the University of any export controlled information, materials, technology, or know-how (collectively "Controlled Content"), Sponsor shall notify the University's contractual contact, as identified in Appendix B below, and inform such contact of the Sponsor's intention to disclose or deliver the Controlled Content. At such time, University's contractual offices shall have a reasonable period, not to exceed seven (7) business days, to evaluate the request for disclosure or delivery of the Controlled Content. University's contractual office shall have, in its sole discretion, the right to accept or decline receipt of such Controlled Content. Upon receipt of written notification from University of its acceptance of delivery of the identified Controlled Content, in a manner consistent with this provision, Sponsor may disclose and/or deliver the Controlled Content only to the attention of the named Principal Investigator as identified in Appendix B.

IN WITNESS WHEREOF, the parties hereto have caused these presents to be executed in duplicate as of the day and year first above written.

By An Authorized Official of University Timothy M. Stodart		By An Authorized Official of Sponsor Kevin Q. Lukiewski			
Timothy M. Stodart	Name:	Kevin J. Lukiewski			
Associate Director, Office of Sponsored Programs	Title:	President			
09/30/2020	Date:	09/24/2020			
	Timothy M. Stodart Timothy M. Stodart Associate Director, Office of Sponsored Programs	Timothy M. Stodart Timothy M. Stodart Name: Associate Director, Office of Sponsored Programs Title:			

Page 2



Technology Disclosure Form
Office of Technology Management
113 Technology Center, University Park, PA 16802
814.865.6277 · otminfo@psu.edu

Disclosure Number CONTRACTOR ONLY

2019-SRA026

The completed form, along with a detailed description of the technology, should be emailed to the OTM (OTMinfo@psu.edu). Please attempt to complete the form in its entirety, but if you have any questions, please call our office (814.865.6277).

	file of Technology (brief but descri							
Additive Manufacturing of Reinforced Silicone Elastomers 2. Technology Inventors Contributors (its primary contact first—attach additional sheets to shore than 5):								
	Full Legal Name	Work Email Address	Title (c	g. Professor, G ent, or Undergrad	rad	Primary College	Pri	mary irtment
A	Michael Hickner	mah49@psu.edu	Professo	or		EMS	MAT	SE
В	Lachlan Peeke	lmp5527@psu.edu	Underg	rad		EMS	MAT	SE
C	Greene Tweed inventors							
D								
E								
For	reporting purposes, are any of the technol	logy inventors/contributors	listed al	bove female?	Yes		No	
	s this technology the result of spons ortant. If you will report this technolog				Yes	s 🛮 🖾	No	
Gre	Sponsor ene Tweed			Grant or Contri 206278	ict#	Principa Michael	************	***************************************
	tre there are other agreements perf isfer agreements, consulting agreen				Yes	s S	No	
	Agreement Type	Name of Other	arty		Inst	itution Co	ntact	
	tible Discussives one publicly as a							
	ie disclosure immediately prevent us l in US patent rights. As such please tr							
	ection strategies. However, even if you	have publicly disclosed s	000 (00)	nology please co	ng lei	e and sub-	iit this	form.
	the technology been disclosed to anyone (ented as a poster or orally at a conference				Yes	s I	No	×
If ye	s, please provide below the dates of all dis	sclosures and describe thei	r nature (e.g., publication, p	resen	tation, disc	ussion,	etc.).
orall	o, please provide below your plans for disc y at a conference or invited talk; discussions se call our office as soon as possible so	on with colleagues, etc.). 💈	<u>f a discle</u>	sure is anticipate				
This	work will eventually be disclosed in a pu	blication and thesis in the	next 8-12	months.				
Gree	ene Tweed is working on a patent applicat	ion now with Penn State co	o-invento	rship.				

PATENT REEL: 055797 FRAME: 0649

6. Please provide a high summary of the recombings money to use all the space provided below).
Silicone and thermoplastic dual extrusion 3D printing. Use of two different types of printing technologies that are integrated to form a composite part.
It was not clear how to make hard and soft silicone composites before this invention. We have constructed a new type of printer and used it to integrate unique materials.
A first things of the control of the

The completed form, <u>along with a detailed description of the technology</u>, should be emailed to the OTM (<u>OTMinfo@psu.edu</u>). Please attempt to <u>complete the form in its entirety</u>, but if you have any questions, please <u>call our office</u> (814.865.6277).

RECORDED: 04/01/2021

PATENT REEL: 055797 FRAME: 0650