

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5133028

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
VANGUARD SPACE TECHNOLOGIES, INC.	09/06/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CITIZENS BANK OF PENNSYLVANIA, AS ADMINISTRATIVE AGENT
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<b>City:</b>	CANTON
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02021
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>Patent Number:</b>	10026857
<b>Application Number:</b>	15977634
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(704)373-8822
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<b>ATTORNEY DOCKET NUMBER:</b>	2063928-0005
<b>NAME OF SUBMITTER:</b>	BETTY G. SMITH
<b>SIGNATURE:</b>	/Betty G. Smith/
<b>DATE SIGNED:</b>	09/10/2018
<b>Total Attachments: 4</b>	
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**NOTICE  
OF  
GRANT OF SECURITY INTEREST  
IN  
PATENTS**

Dated as of September 6, 2018

United States Patent and Trademark Office

Ladies and Gentlemen:

Please be advised that pursuant to the Collateral Agreement dated as of December 10, 2014 (as amended, restated, supplemented or otherwise modified from time to time, the “***Agreement***”) among the Grantor (as identified on the signature pages hereto), the other grantors party thereto and the Administrative Agent (as identified on the signature pages hereto) for the Secured Parties referenced therein, the undersigned Grantor has granted a continuing security interest in and continuing lien upon the patents and patent applications identified on ***Schedule A*** to the Administrative Agent for the ratable benefit of the Secured Parties.

The Grantor and the Administrative Agent, on behalf of the Secured Parties, hereby acknowledge and agree that the security interest in such patents and patent applications (a) may only be terminated in accordance with the terms of the Agreement and (b) is not to be construed as an assignment of any patent or patent application.

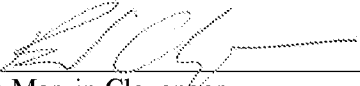
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Very truly yours,

**GRANTOR:**

**VANGUARD SPACE TECHNOLOGIES,  
INC.**

Vanguard Space Technologies, Inc.  
4398 Corporate Center Drive  
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By:   
Name: Marvin Clevenger  
Title: Chairman and CEO

**JURISDICTION OF FORMATION OF  
GRANTOR: CALIFORNIA**

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Acknowledged and accepted:

**ADMINISTRATIVE AGENT:**

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**CITIZENS BANK OF PENNSYLVANIA**

By:   
Name: Michael Flynn  
Title: Senior Vice President

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**PATENT**  
**REEL: 046830 FRAME: 0807**

**SCHEDULE A  
TO  
NOTICE  
OF  
GRANT OF SECURITY INTEREST  
IN  
PATENTS**

**PATENTS AND  
PATENT APPLICATIONS**

<b>Jurisdiction</b>	<b>Title</b>	<b>App. No.</b>	<b>App. Date</b>	<b>Patent No.</b>	<b>Issue Date</b>
United States	Assembly and mounting of solar cells on airfoils	15/359814	11/23/2016	10,026,857	7/17/2018

*Applications*

	<b>Jurisdiction</b>	<b>Title</b>	<b>App. No.</b>	<b>App. Date</b>
1.	United States	ASSEMBLY AND MOUNTING OF SOLAR CELLS ON AIRFOILS	15/977634	11-May-18