

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Xiuzhang James Zhang</td> <td>05/16/2012</td> </tr> <tr> <td>Aaron Ezekiel Smith</td> <td>05/16/2012</td> </tr> <tr> <td>Anthony Louis Giglio</td> <td>05/16/2012</td> </tr> <tr> <td>Brian Peter Arnese</td> <td>05/16/2012</td> </tr> <tr> <td>Benjamin Paul Lacy</td> <td>05/16/2012</td> </tr> </tbody> </table>		Name	Execution Date	Xiuzhang James Zhang	05/16/2012	Aaron Ezekiel Smith	05/16/2012	Anthony Louis Giglio	05/16/2012	Brian Peter Arnese	05/16/2012	Benjamin Paul Lacy	05/16/2012
Name	Execution Date												
Xiuzhang James Zhang	05/16/2012												
Aaron Ezekiel Smith	05/16/2012												
Anthony Louis Giglio	05/16/2012												
Brian Peter Arnese	05/16/2012												
Benjamin Paul Lacy	05/16/2012												
RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>General Electric Company</td> </tr> <tr> <td>Street Address:</td> <td>1 River Road</td> </tr> <tr> <td>City:</td> <td>Schenectady</td> </tr> <tr> <td>State/Country:</td> <td>NEW YORK</td> </tr> <tr> <td>Postal Code:</td> <td>12345</td> </tr> </table>		Name:	General Electric Company	Street Address:	1 River Road	City:	Schenectady	State/Country:	NEW YORK	Postal Code:	12345		
Name:	General Electric Company												
Street Address:	1 River Road												
City:	Schenectady												
State/Country:	NEW YORK												
Postal Code:	12345												
PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13479683</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13479683								
Property Type	Number												
Application Number:	13479683												
CORRESPONDENCE DATA													
<p>Fax Number: (518)385-3821</p> <p>Phone: 518-385-2725</p> <p>Email: Shannon.Cannizzaro@GE.COM</p> <p><i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: General Electric Company</p> <p>Address Line 1: ONE RIVER ROAD, BLD. 43, ROOM 225</p> <p>Address Line 4: SCHENECTADY, NEW YORK 12345</p>													
ATTORNEY DOCKET NUMBER:	252388												
NAME OF SUBMITTER:	Mark E. Henderson												

CH \$40.00 13479683

**Total Attachments: 6**

source=252388-1\_US\_Assignment\_23May2012#page1.tif

source=252388-1\_US\_Assignment\_23May2012#page2.tif

source=252388-1\_US\_Assignment\_23May2012#page3.tif

source=252388-1\_US\_Assignment\_23May2012#page4.tif

source=252388-1\_US\_Assignment\_23May2012#page5.tif

source=252388-1\_US\_Assignment\_23May2012#page6.tif

**ASSIGNMENT**

In accordance with my/our obligations under an Employee Innovation and Proprietary Information Agreement or (as applicable) arising out of other agreements (such as, but not limited to, the Services Agreement between the General Electric Company, a New York Corporation, and my employer), and/or for other good and valuable consideration of which I/we acknowledge receipt, I/we,

<u>Xiuzhang James Zhang</u>	<u>of</u>	<u>Simpsonville, South Carolina</u> (City, State or Country)
<u>Aaron Ezekiel Smith</u>	<u>of</u>	<u>Simpsonville, South Carolina</u> (City, State or Country)
<u>Anthony Louis Giglio</u>	<u>of</u>	<u>Simpsonville, South Carolina</u> (City, State or Country)
<u>Brian Peter Arness</u>	<u>of</u>	<u>Greenville, South Carolina</u> (City, State or Country)
<u>Benjamin Paul Lacy</u>	<u>of</u>	<u>Greer, South Carolina</u> (City, State or Country)

hereby sell and assign to **General Electric Company, a New York Corporation**, (hereinafter referred to as Assignee) having an address at 1 River Road, Schenectady, New York 12345, USA, its successors and assigns my (our) entire respective right(s), title(s) and interest(s) in and to the invention and improvements invented and originated by me/us and described in the application for United States Patent currently entitled:

**COOLING STRUCTURES IN THE TIPS OF TURBINE ROTOR BLADES**

☒ executed concurrently herewith,

☐ filed on \_\_\_\_\_ having Serial Number \_\_\_\_\_

and any and all applications for patent and patents therefrom in any and all countries, including all divisions, continuations, reexaminations and reissues thereof, and all rights of priority resulting from the filing of said United States application, and authorize and request any official whose duty it is to issue patents, to issue any patent on said inventions and improvements resulting therefrom to said Assignee, or its successors or assigns and agree that on request and without further consideration, but at the expense of said Assignee, I/we will communicate to said Assignee or its representatives or nominees any facts known to me/us respecting said inventions and improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, reexamination and reissue applications, make all rightful oaths and generally do everything possible to aid said Assignee, its successors, assigns, and nominees to obtain and enforce proper patent protection for said invention and its improvements in all countries.

## INVENTOR 1

Signature: Xiuzhang James Zhang Date: 5/16/2012  
Xiuzhang James Zhang

Witnessed by: Zhirui Dong Date: 5/16/2012  
Signature

Zhirui Dong  
Printed Name of Witness

Witnessed by: Haiping Date: 5/16/2012  
Signature

Haiping  
Printed Name of Witness

---



---

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

---



---

\_\_\_\_\_  
Xiuzhang James Zhang Date: \_\_\_\_\_

STATE OF \_\_\_\_\_  
COUNTY OF \_\_\_\_\_ ss.

This \_\_\_\_\_ day of \_\_\_\_\_, 2012 before me personally came the above-named \_\_\_\_\_, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal \_\_\_\_\_  
(Notary Public)

INVENTOR 2

Signature: \_\_\_\_\_

Aaron Ezekiel Smith

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

5/16/12

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

Signature

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

5/16/12

Lucas Wagoner

Printed Name of Witness

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

Signature

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

5/16/12

Richard W Johnson

Printed Name of Witness

---



---

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


---



---

\_\_\_\_\_  
Aaron Ezekiel Smith

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

STATE OF \_\_\_\_\_

ss.

COUNTY OF \_\_\_\_\_

This \_\_\_\_\_ day of \_\_\_\_\_, 2012 before me personally came the above-named \_\_\_\_\_, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal \_\_\_\_\_

\_\_\_\_\_  
(Notary Public)

INVENTOR 3

Signature: *Anthony Louis Giglio*  
 Anthony Louis Giglio

Date: 5/16/2012

Witnessed by: *Christopher W Kester*  
 Signature

Date: 5/16/12

Christopher W Kester  
 Printed Name of Witness

Witnessed by: *Jacob Perry*  
 Signature

Date: 5/16/12

Jacob Perry  
 Printed Name of Witness

---



---

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

---



---

\_\_\_\_\_  
 Anthony Louis Giglio

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

STATE OF \_\_\_\_\_  
 COUNTY OF \_\_\_\_\_ ss.

This \_\_\_\_\_ day of \_\_\_\_\_, 2012 before me personally came the above-named \_\_\_\_\_, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

\_\_\_\_\_  
 (Notary Public)

INVENTOR 4

Signature: Brian Peter Arness  
 Brian Peter Arness

Date: 5/16/12

Witnessed by: Spencer Karoff  
 Signature  
Spencer Karoff  
 Printed Name of Witness

Date: 5/16/12

Witnessed by: Matthew R. Piersa  
 Signature  
Matthew R. Piersa  
 Printed Name of Witness

Date: 5/16/12

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

\_\_\_\_\_  
 Brian Peter Arness

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

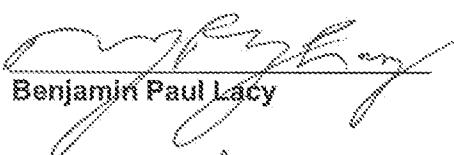
STATE OF \_\_\_\_\_  
 COUNTY OF \_\_\_\_\_ ss.

This \_\_\_\_\_ day of \_\_\_\_\_, 2012 before me personally came the above-named \_\_\_\_\_, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

\_\_\_\_\_  
 (Notary Public)

INVENTOR 5

Signature:   
 Benjamin Paul Lacy

Date: 5/16/12

Witnessed by:   
 Signature  
Jacob C. Perry II  
 Printed Name of Witness

Date: 5/16/12

Witnessed by:   
 Signature  
Christopher W. Kester  
 Printed Name of Witness

Date: 5/16/12

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

\_\_\_\_\_  
 Benjamin Paul Lacy

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

STATE OF \_\_\_\_\_  
 COUNTY OF \_\_\_\_\_ ss.

This \_\_\_\_\_ day of \_\_\_\_\_, 2012 before me personally came the above-named \_\_\_\_\_, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

\_\_\_\_\_  
 (Notary Public)