

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>Padmaja PARAKALA</td> <td>03/15/2013</td> </tr> <tr> <td>Surinder Singh PABLA</td> <td>03/12/2013</td> </tr> <tr> <td>Joshua Lee MARGOLIES</td> <td>03/13/2013</td> </tr> <tr> <td>James Anthony RUUD</td> <td>04/08/2013</td> </tr> <tr> <td>Krishnamurthy ANAND</td> <td>04/02/2013</td> </tr> <tr> <td>Jon Conrad SCHAEFFER</td> <td>04/02/2013</td> </tr> </tbody> </table>		Name	Execution Date	Padmaja PARAKALA	03/15/2013	Surinder Singh PABLA	03/12/2013	Joshua Lee MARGOLIES	03/13/2013	James Anthony RUUD	04/08/2013	Krishnamurthy ANAND	04/02/2013	Jon Conrad SCHAEFFER	04/02/2013
Name	Execution Date														
Padmaja PARAKALA	03/15/2013														
Surinder Singh PABLA	03/12/2013														
Joshua Lee MARGOLIES	03/13/2013														
James Anthony RUUD	04/08/2013														
Krishnamurthy ANAND	04/02/2013														
Jon Conrad SCHAEFFER	04/02/2013														
RECEIVING PARTY DATA															
<table border="1"> <tr> <td>Name:</td> <td>GENERAL ELECTRIC COMPANY</td> </tr> <tr> <td>Street Address:</td> <td>One 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:	One River Road	City:	Schenectady	State/Country:	NEW YORK	Postal Code:	12345				
Name:	GENERAL ELECTRIC COMPANY														
Street Address:	One 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>13860044</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13860044										
Property Type	Number														
Application Number:	13860044														
CORRESPONDENCE DATA															
<p>Fax Number: 7172375300 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 717-237-5455 Email: ksmith@mwn.com Correspondent Name: Kerri J. Smith, Paralegal Address Line 1: 100 Pine Street Address Line 2: P.O. Box 1166 Address Line 4: Harrisburg, PENNSYLVANIA 17108-1166</p>															
ATTORNEY DOCKET NUMBER:	260272/22113-0128														

NAME OF SUBMITTER:	Kerri J. Smith
Signature:	/Kerri J. Smith/
Date:	04/10/2013
<p>Total Attachments: 30</p> <p>source=A3319452#page1.tif</p> <p>source=A3319452#page2.tif</p> <p>source=A3319452#page3.tif</p> <p>source=A3319452#page4.tif</p> <p>source=A3319452#page5.tif</p> <p>source=A3319452#page6.tif</p> <p>source=A3319452#page7.tif</p> <p>source=A3319452#page8.tif</p> <p>source=A3319452#page9.tif</p> <p>source=A3319452#page10.tif</p> <p>source=A3319452#page11.tif</p> <p>source=A3319452#page12.tif</p> <p>source=A3319452#page13.tif</p> <p>source=A3319452#page14.tif</p> <p>source=A3319452#page15.tif</p> <p>source=A3319452#page16.tif</p> <p>source=A3319452#page17.tif</p> <p>source=A3319452#page18.tif</p> <p>source=A3319452#page19.tif</p> <p>source=A3319452#page20.tif</p> <p>source=A3319452#page21.tif</p> <p>source=A3319452#page22.tif</p> <p>source=A3319452#page23.tif</p> <p>source=A3319452#page24.tif</p> <p>source=A3319452#page25.tif</p> <p>source=A3319452#page26.tif</p> <p>source=A3319452#page27.tif</p> <p>source=A3319452#page28.tif</p> <p>source=A3319452#page29.tif</p> <p>source=A3319452#page30.tif</p>	

COMBINED DECLARATION AND GLOBAL ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION

As the below named inventor(s), I/we hereby declare that:

This declaration and assignment are directed to:

**ARCHITECTURES FOR HIGH TEMPERATURE TBCs WITH ULTRA LOW THERMAL
CONDUCTIVITY AND ABRADABILITY AND METHOD OF MAKING**

- ☒ the specification of which is attached hereto OR
☐ United States application or PCT international application number _____ filed on _____, as amended on [date] (if applicable).
(We hereby authorize and request the Company or its delegated attorneys or agents to insert above the application number and filing date of the application when known.)

The above-identified application was made or authorized to be made by us.

We believe that we are original joint inventors of a claimed invention in the application.

We hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC § 1001 by fine or imprisonment of not more than five (5) years, or both.

We have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

We acknowledge the duty to disclose information which is material to the patentability of this application as defined in 37 CFR § 1.56, including, for continuation-in-part applications, material information which became available between the filing date of the prior application and the filing date of the continuation-in-part application.

In accordance with our obligation(s) 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 General Electric Company, a New York corporation, and our employers), and/or for other good and valuable consideration of which we acknowledge receipt, I/we,

Inventor First Name	Inventor Middle Name	Inventor Last Name		Residence Town	Residence State	Residence Country
Padmaja		PARAKALA		Bangalore	Karnataka	India
Surinder	Singh	PABLA	of	Greer	SC	US
Joshua	Lee	MARGOLIES	of	Niskayuna	NY	US
James	Anthony	RUUD	of	Delmar	NY	US
Krishnamurthy		ANAND	of	Bangalore	Karnataka	India
Jon	Conrad	SCHAEFFER	of	Simpsonville	SC	US

hereby sell and assign to:

Name of Company: GENERAL ELECTRIC COMPANY
Entity Type (optional): <i>New York corporation</i>
Address: <i>One River Road, Schenectady, New York 12345 USA</i>

herein referred to as "Company", its successors and assigns our entire respective rights, titles and interests in and to the invention and improvements made or conceived by us described in the application(s) listed above and in the following table:

Country of Filing	Type of Filing	Application Number	Filing Date	Title

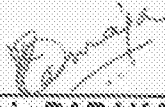
(We hereby authorize and request the Company or its delegated attorneys or agents to insert above the application number and filing date of the application(s) when known.)

and any and all applications for patent and patents therefrom in any and all countries, including all divisions, continuations, continuations-in-part, reexaminations, renewals, and reissues thereof, and all rights of priority resulting from the filing of the application(s), and authorize and request any official whose duty it is to issue patents, to issue any patent on the inventions and improvements resulting therefrom to the Company, or its successors or assigns, and agree that on request and without further consideration, we will communicate to the Company or its representatives or nominees any facts known to us respecting the inventions and improvements and testify in any legal proceeding, make all rightful oaths, sign all lawful papers and execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights in all countries including, but not limited to, any provisional, non-provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, for any derivation proceedings relating thereto, and, as to any patents that issue from such applications, for any supplemental examination, derivation proceeding, opposition, post grant review, reissue, re-examination, inter partes review, or extension thereof, and generally do everything possible to aid the Company, its successors, assigns, and nominees to obtain and enforce proper patent protection for the invention and its improvements in all countries.

Remuneration claims of the inventor(s)/assignor(s) potentially arising from German Law on Employee Inventions, or any other respective country law, remain unaffected by this assignment.

Docket No.: 260272/22113-0128
Customer No.: 13152

INVENTOR 1

Signature: 
Padmaja PARAKALA

Date: 15th March 2013

Witnessed by: 
Signature

Date: 15th March 2013

SRINIDHI RANACHANDRA
Printed Name of Witness

Witnessed by: 
Signature

Date: 15th March 2013

BILU DASAN
Printed Name of Witness

INVENTOR 2

Signature: _____
Surinder Singh PABLA

Date: _____

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

Docket No.: 260272/22113-0128
Customer No.: 13152

INVENTOR 3

Signature: _____

Joshua Lee MARGOLIES

Date: _____

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

INVENTOR 4

Signature: _____

James Anthony RUUD

Date: _____

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

Docket No.: 260272/22113-0128

Customer No.: 13152

INVENTOR 5

Signature: _____

Krishnamurthy ANAND

Date: _____

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

INVENTOR 6

Signature: _____

Jon Conrad SCHAEFFER

Date: _____

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

COMBINED DECLARATION AND GLOBAL ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION

As the below named inventor(s), I/we hereby declare that:

This declaration and assignment are directed to:

**ARCHITECTURES FOR HIGH TEMPERATURE TBCs WITH ULTRA LOW THERMAL
CONDUCTIVITY AND ABRADABILITY AND METHOD OF MAKING**

- ☒ the specification of which is attached hereto OR
☐ United States application or PCT international application number _____ filed on _____, as amended on [date] (if applicable).
(We hereby authorize and request the Company or its delegated attorneys or agents to insert above the application number and filing date of the application when known.)

The above-identified application was made or authorized to be made by us.

We believe that we are original joint inventors of a claimed invention in the application.

We hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC § 1001 by fine or imprisonment of not more than five (5) years, or both.

We have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

We acknowledge the duty to disclose information which is material to the patentability of this application as defined in 37 CFR § 1.56, including, for continuation-in-part applications, material information which became available between the filing date of the prior application and the filing date of the continuation-in-part application.

In accordance with our obligation(s) 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 General Electric Company, a New York corporation, and our employers), and/or for other good and valuable consideration of which we acknowledge receipt, I/we,

Inventor First Name	Inventor Middle Name	Inventor Last Name		Residence Town	Residence State	Residence Country
Padmaja		PARAKALA		Bangalore	Karnataka	India
Surinder	Singh	PABLA	of	Greer	SC	US
Joshua	Lee	MARGOLIES	of	Niskayuna	NY	US
James	Anthony	RUUD	of	Delmar	NY	US
Krishnamurthy		ANAND	of	Bangalore	Karnataka	India
Jon	Conrad	SCHAEFFER	of	Simpsonville	SC	US

hereby sell and assign to:

Name of Company: GENERAL ELECTRIC COMPANY
Entity Type (optional): <i>New York corporation</i>
Address: <i>One River Road, Schenectady, New York 12345 USA</i>

herein referred to as "Company", its successors and assigns our entire respective rights, titles and interests in and to the invention and improvements made or conceived by us described in the application(s) listed above and in the following table:

Country of Filing	Type of Filing	Application Number	Filing Date	Title

(We hereby authorize and request the Company or its delegated attorneys or agents to insert above the application number and filing date of the application(s) when known.)

and any and all applications for patent and patents therefrom in any and all countries, including all divisions, continuations, continuations-in-part, reexaminations, renewals, and reissues thereof, and all rights of priority resulting from the filing of the application(s), and authorize and request any official whose duty it is to issue patents, to issue any patent on the inventions and improvements resulting therefrom to the Company, or its successors or assigns, and agree that on request and without further consideration, we will communicate to the Company or its representatives or nominees any facts known to us respecting the inventions and improvements and testify in any legal proceeding, make all rightful oaths, sign all lawful papers and execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights in all countries including, but not limited to, any provisional, non-provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, for any derivation proceedings relating thereto, and, as to any patents that issue from such applications, for any supplemental examination, derivation proceeding, opposition, post grant review, reissue, re-examination, inter partes review, or extension thereof, and generally do everything possible to aid the Company, its successors, assigns, and nominees to obtain and enforce proper patent protection for the invention and its improvements in all countries.

Remuneration claims of the inventor(s)/assignor(s) potentially arising from German Law on Employee Inventions, or any other respective country law, remain unaffected by this assignment.

INVENTOR 1

Signature: _____
Padmaja PARAKALA

Date: _____

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

INVENTOR 2

Signature: Surinder Singh Pabla
Surinder Singh PABLA

Date: 3/12/13

Witnessed by: K.C. Latha
Signature

Date: 3/12/13

SRIRAM KOTTILINGAM
Printed Name of Witness

Witnessed by: Ganjiang Feng
Signature

Date: 3/12/13

GANJIANG FENG
Printed Name of Witness

Docket No.: 260272/22113-0128

Customer No.: 13152

INVENTOR 3

Signature: _____

Joshua Lee MARGOLIES

Date: _____

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

INVENTOR 4

Signature: _____

James Anthony RUUD

Date: _____

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

Docket No.: 260272/22113-0128

Customer No.: 13152

INVENTOR 5

Signature: _____

Krishnamurthy ANAND

Date: _____

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

INVENTOR 6

Signature: _____

Jon Conrad SCHAEFFER

Date: _____

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

COMBINED DECLARATION AND GLOBAL ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION

As the below named inventor(s), I/we hereby declare that:

This declaration and assignment are directed to:

**ARCHITECTURES FOR HIGH TEMPERATURE TBCs WITH ULTRA LOW THERMAL
CONDUCTIVITY AND ABRADABILITY AND METHOD OF MAKING**

- ☒ the specification of which is attached hereto OR
☐ United States application or PCT international application number _____, as
_____ filed on _____, as
amended on [date] (if applicable).
(We hereby authorize and request the Company or its delegated attorneys or agents to
insert above the application number and filing date of the application when known.)

The above-identified application was made or authorized to be made by us.

We believe that we are original joint inventors of a claimed invention in the application.

We hereby acknowledge that any willful false statement made in this declaration is punishable
under 18 USC § 1001 by fine or imprisonment of not more than five (5) years, or both.

We have reviewed and understand the contents of the above-identified application,
including the claims, as amended by any amendment referred to above.

We acknowledge the duty to disclose information which is material to the patentability of this
application as defined in 37 CFR § 1.56, including, for continuation-in-part applications, material
information which became available between the filing date of the prior application and the filing
date of the continuation-in-part application.

In accordance with our obligation(s) 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 General Electric Company, a New York corporation, and our
employers), and/or for other good and valuable consideration of which we acknowledge receipt,
I/we,

Inventor First Name	Inventor Middle Name	Inventor Last Name		Residence Town	Residence State	Residence Country
Padmaja		PARAKALA		Bangalore	Karnataka	India
Surinder	Singh	PABLA	of	Greer	SC	US
Joshua	Lee	MARGOLIES	of	Niskayuna	NY	US
James	Anthony	RUUD	of	Delmar	NY	US
Krishnamurthy		ANAND	of	Bangalore	Karnataka	India
Jon	Conrad	SCHAEFFER	of	Simpsonville	SC	US

hereby sell and assign to:

Name of Company: GENERAL ELECTRIC COMPANY
Entity Type (optional): <i>New York corporation</i>
Address: <i>One River Road, Schenectady, New York 12345 USA</i>

herein referred to as "Company", its successors and assigns our entire respective rights, titles and interests in and to the invention and improvements made or conceived by us described in the application(s) listed above and in the following table:

Country of Filing	Type of Filing	Application Number	Filing Date	Title

(We hereby authorize and request the Company or its delegated attorneys or agents to insert above the application number and filing date of the application(s) when known.)

and any and all applications for patent and patents therefrom in any and all countries, including all divisions, continuations, continuations-in-part, reexaminations, renewals, and reissues thereof, and all rights of priority resulting from the filing of the application(s), and authorize and request any official whose duty it is to issue patents, to issue any patent on the inventions and improvements resulting therefrom to the Company, or its successors or assigns, and agree that on request and without further consideration, we will communicate to the Company or its representatives or nominees any facts known to us respecting the inventions and improvements and testify in any legal proceeding, make all rightful oaths, sign all lawful papers and execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights in all countries including, but not limited to, any provisional, non-provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, for any derivation proceedings relating thereto, and, as to any patents that issue from such applications, for any supplemental examination, derivation proceeding, opposition, post grant review, reissue, re-examination, inter partes review, or extension thereof, and generally do everything possible to aid the Company, its successors, assigns, and nominees to obtain and enforce proper patent protection for the invention and its improvements in all countries.

Remuneration claims of the inventor(s)/assignor(s) potentially arising from German Law on Employee Inventions, or any other respective country law, remain unaffected by this assignment.

Docket No.: 260272/22113-0128

Customer No.: 13152

INVENTOR 1

Signature: _____

Padmaja PARAKALA

Date: _____

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

INVENTOR 2

Signature: _____

Surinder Singh PABLA

Date: _____

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

INVENTOR 3

Signature: 
Joshua Lee MARGOLIES

Date: 3/13/2013

Witnessed by: 
Signature

Date: 3/13/2013

Tamara J. Russell
Printed Name of Witness

Witnessed by: 
Signature

Date: 3/13/13

James Fisk
Printed Name of Witness

INVENTOR 4

Signature: _____
James Anthony RUUD

Date: _____

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

Docket No.: 260272/22113-0128

Customer No.: 13152

INVENTOR 5

Signature: _____

Krishnamurthy ANAND

Date: _____

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

INVENTOR 6

Signature: _____

Jon Conrad SCHAEFFER

Date: _____

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

COMBINED DECLARATION AND GLOBAL ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION

As the below named inventor(s), I/we hereby declare that:

This declaration and assignment are directed to:

ARCHITECTURES FOR HIGH TEMPERATURE TBCs WITH ULTRA LOW THERMAL
CONDUCTIVITY AND ABRADABILITY AND METHOD OF MAKING

- ☒ the specification of which is attached hereto OR
☐ United States application or PCT international application number _____
_____ filed on _____, as
amended on [date] (if applicable).
(We hereby authorize and request the Company or its delegated attorneys or agents to
insert above the application number and filing date of the application when known.)

The above-identified application was made or authorized to be made by us.

We believe that we are original joint inventors of a claimed invention in the application.

We hereby acknowledge that any willful false statement made in this declaration is punishable
under 18 USC § 1001 by fine or imprisonment of not more than five (5) years, or both.

We have reviewed and understand the contents of the above-identified application,
including the claims, as amended by any amendment referred to above.

We acknowledge the duty to disclose information which is material to the patentability of this
application as defined in 37 CFR § 1.56, including, for continuation-in-part applications, material
information which became available between the filing date of the prior application and the filing
date of the continuation-in-part application.

In accordance with our obligation(s) 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 General Electric Company, a New York corporation, and our
employers), and/or for other good and valuable consideration of which we acknowledge receipt,
I/we,

Inventor First Name	Inventor Middle Name	Inventor Last Name		Residence Town	Residence State	Residence Country
Padmaja		PARAKALA		Bangalore	Karnataka	India
Surinder	Singh	PABLA	of	Greer	SC	US
Joshua	Lee	MARGOLIES	of	Niskayuna	NY	US
James	Anthony	RUUD	of	Delmar	NY	US
Krishnamurthy		ANAND	of	Bangalore	Karnataka	India
Jon	Conrad	SCHAEFFER	of	Simpsonville	SC	US

hereby sell and assign to:

Name of Company: GENERAL ELECTRIC COMPANY
Entity Type (optional): <i>New York corporation</i>
Address: <i>One River Road, Schenectady, New York 12345 USA</i>

herein referred to as "Company", its successors and assigns our entire respective rights, titles and interests in and to the invention and improvements made or conceived by us described in the application(s) listed above and in the following table:

Country of Filing	Type of Filing	Application Number	Filing Date	Title

(We hereby authorize and request the Company or its delegated attorneys or agents to insert above the application number and filing date of the application(s) when known.)

and any and all applications for patent and patents therefrom in any and all countries, including all divisions, continuations, continuations-in-part, reexaminations, renewals, and reissues thereof, and all rights of priority resulting from the filing of the application(s), and authorize and request any official whose duty it is to issue patents, to issue any patent on the inventions and improvements resulting therefrom to the Company, or its successors or assigns, and agree that on request and without further consideration, we will communicate to the Company or its representatives or nominees any facts known to us respecting the inventions and improvements and testify in any legal proceeding, make all rightful oaths, sign all lawful papers and execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights in all countries including, but not limited to, any provisional, non-provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, for any derivation proceedings relating thereto, and, as to any patents that issue from such applications, for any supplemental examination, derivation proceeding, opposition, post grant review, reissue, re-examination, inter partes review, or extension thereof, and generally do everything possible to aid the Company, its successors, assigns, and nominees to obtain and enforce proper patent protection for the invention and its improvements in all countries.

Remuneration claims of the inventor(s)/assignor(s) potentially arising from German Law on Employee Inventions, or any other respective country law, remain unaffected by this assignment.

INVENTOR 1

Signature: _____
Padmaja PARAKALA

Date: _____

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

INVENTOR 2

Signature: _____
Surinder Singh PABLA

Date: _____

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

INVENTOR 3

Signature: _____
Joshua Lee MARGOLIES

Date: _____

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

INVENTOR 4

Signature: _____
James Anthony RUUD

Date: April 8, 2013

Witnessed by: _____
Signature

Date: April 8, 2013

James A. Brewer
Printed Name of Witness

Witnessed by: _____
Signature

Date: 10 April 2013

Michael GIULIOTTI
Printed Name of Witness

INVENTOR 5

Signature: _____
Krishnamurthy ANAND

Date: _____

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

INVENTOR 6

Signature: _____
Jon Conrad SCHAEFFER

Date: _____

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

COMBINED DECLARATION AND GLOBAL ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION

As the below named inventor(s), I/we hereby declare that:

This declaration and assignment are directed to:

**ARCHITECTURES FOR HIGH TEMPERATURE TBCs WITH ULTRA LOW THERMAL
CONDUCTIVITY AND ABRADABILITY AND METHOD OF MAKING**

- ☒ the specification of which is attached hereto OR
☐ United States application or PCT international application number _____, as
_____ filed on _____, as
amended on [date] (if applicable).
(We hereby authorize and request the Company or its delegated attorneys or agents to
insert above the application number and filing date of the application when known.)

The above-identified application was made or authorized to be made by us.

We believe that we are original joint inventors of a claimed invention in the application.

We hereby acknowledge that any willful false statement made in this declaration is punishable
under 18 USC § 1001 by fine or imprisonment of not more than five (5) years, or both.

We have reviewed and understand the contents of the above-identified application,
including the claims, as amended by any amendment referred to above.

We acknowledge the duty to disclose information which is material to the patentability of this
application as defined in 37 CFR § 1.56, including, for continuation-in-part applications, material
information which became available between the filing date of the prior application and the filing
date of the continuation-in-part application.

In accordance with our obligation(s) 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 General Electric Company, a New York corporation, and our
employers), and/or for other good and valuable consideration of which we acknowledge receipt,
I/we,

Inventor First Name	Inventor Middle Name	Inventor Last Name		Residence Town	Residence State	Residence Country
Padmaja		PARAKALA		Bangalore	Karnataka	India
Surinder	Singh	PABLA	of	Greer	SC	US
Joshua	Lee	MARGOLIES	of	Niskayuna	NY	US
James	Anthony	RUUD	of	Delmar	NY	US
Krishnamurthy		ANAND	of	Bangalore	Karnataka	India
Jon	Conrad	SCHAEFFER	of	Simpsonville	SC	US

hereby sell and assign to:

Name of Company: GENERAL ELECTRIC COMPANY
Entity Type (optional): <i>New York corporation</i>
Address: <i>One River Road, Schenectady, New York 12345 USA</i>

herein referred to as "Company", its successors and assigns our entire respective rights, titles and interests in and to the invention and improvements made or conceived by us described in the application(s) listed above and in the following table:

Country of Filing	Type of Filing	Application Number	Filing Date	Title

(We hereby authorize and request the Company or its delegated attorneys or agents to insert above the application number and filing date of the application(s) when known.)

and any and all applications for patent and patents therefrom in any and all countries, including all divisions, continuations, continuations-in-part, reexaminations, renewals, and reissues thereof, and all rights of priority resulting from the filing of the application(s), and authorize and request any official whose duty it is to issue patents, to issue any patent on the inventions and improvements resulting therefrom to the Company, or its successors or assigns, and agree that on request and without further consideration, we will communicate to the Company or its representatives or nominees any facts known to us respecting the inventions and improvements and testify in any legal proceeding, make all rightful oaths, sign all lawful papers and execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights in all countries including, but not limited to, any provisional, non-provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, for any derivation proceedings relating thereto, and, as to any patents that issue from such applications, for any supplemental examination, derivation proceeding, opposition, post grant review, reissue, re-examination, inter partes review, or extension thereof, and generally do everything possible to aid the Company, its successors, assigns, and nominees to obtain and enforce proper patent protection for the invention and its improvements in all countries.

Remuneration claims of the inventor(s)/assignor(s) potentially arising from German Law on Employee Inventions, or any other respective country law, remain unaffected by this assignment.

Docket No.: 260272/22113-0128

Customer No.: 13152

INVENTOR 1

Signature: _____

Padmaja PARAKALA

Date: _____

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

INVENTOR 2

Signature: _____

Surinder Singh PABLA

Date: _____

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

Docket No.: 260272/22113-0128

Customer No.: 13152

INVENTOR 3

Signature: _____

Joshua Lee MARGOLIES

Date: _____

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

INVENTOR 4

Signature: _____

James Anthony RUUD

Date: _____

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

Docket No.: 250272/22113-0128
Customer No.: 13152

INVENTOR 5

Signature: [Signature]
Krishnamurthy ANAND

Date: APRIL 2nd 2013

Witnessed by: [Signature]
Signature

Date: APRIL 2nd 2013

THANAPATI SUNDARARAJAN
Printed Name of Witness

Witnessed by: [Signature]
Signature

Date: APRIL 02, 2013

PRATHAP RAO
Printed Name of Witness

INVENTOR 6

Signature: _____
Jon Conrad SCHAEFFER

Date: _____

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

COMBINED DECLARATION AND GLOBAL ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION

As the below named inventor(s), I/we hereby declare that:

This declaration and assignment are directed to:

ARCHITECTURES FOR HIGH TEMPERATURE TBCs WITH ULTRA LOW THERMAL
CONDUCTIVITY AND ABRADABILITY AND METHOD OF MAKING

- ☒ the specification of which is attached hereto OR
☐ United States application or PCT international application number _____, as amended on [date] (if applicable).
(We hereby authorize and request the Company or its delegated attorneys or agents to insert above the application number and filing date of the application when known.)

The above-identified application was made or authorized to be made by us.

We believe that we are original joint inventors of a claimed invention in the application.

We hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC § 1001 by fine or imprisonment of not more than five (5) years, or both.

We have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

We acknowledge the duty to disclose information which is material to the patentability of this application as defined in 37 CFR § 1.56, including, for continuation-in-part applications, material information which became available between the filing date of the prior application and the filing date of the continuation-in-part application.

In accordance with our obligation(s) 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 General Electric Company, a New York corporation, and our employers), and/or for other good and valuable consideration of which we acknowledge receipt, I/we,

Inventor First Name	Inventor Middle Name	Inventor Last Name		Residence Town	Residence State	Residence Country
Padmaja		PARAKALA		Bangalore	Karnataka	India
Surinder	Singh	PABLA	of	Greer	SC	US
Joshua	Lee	MARGOLIES	of	Niskayuna	NY	US
James	Anthony	RUUD	of	Deimar	NY	US
Krishnamurthy		ANAND	of	Bangalore	Karnataka	India
Jon	Conrad	SCHAEFFER	of	Simpsonville	SC	US

Docket No.: 260272/22113-0128
Customer No.: 13152

hereby sell and assign to:

Name of Company: GENERAL ELECTRIC COMPANY
Entity Type (optional): <i>New York corporation</i>
Address: <i>One River Road, Schenectady, New York 12345 USA</i>

herein referred to as "Company", its successors and assigns our entire respective rights, titles and interests in and to the invention and improvements made or conceived by us described in the application(s) listed above and in the following table:

Country of Filing	Type of Filing	Application Number	Filing Date	Title

(We hereby authorize and request the Company or its delegated attorneys or agents to insert above the application number and filing date of the application(s) when known.)

and any and all applications for patent and patents therefrom in any and all countries, including all divisions, continuations, continuations-in-part, reexaminations, renewals, and reissues thereof, and all rights of priority resulting from the filing of the application(s), and authorize and request any official whose duty it is to issue patents, to issue any patent on the inventions and improvements resulting therefrom to the Company, or its successors or assigns, and agree that on request and without further consideration, we will communicate to the Company or its representatives or nominees any facts known to us respecting the inventions and improvements and testify in any legal proceeding, make all rightful oaths, sign all lawful papers and execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights in all countries including, but not limited to, any provisional, non-provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, for any derivation proceedings relating thereto, and, as to any patents that issue from such applications, for any supplemental examination, derivation proceeding, opposition, post grant review, reissue, re-examination, inter partes review, or extension thereof, and generally do everything possible to aid the Company, its successors, assigns, and nominees to obtain and enforce proper patent protection for the invention and its improvements in all countries.

Remuneration claims of the inventor(s)/assignor(s) potentially arising from German Law on Employee Inventions, or any other respective country law, remain unaffected by this assignment.

Docket No.: 260272/22113-0128
Customer No.: 13152

INVENTOR 1

Signature: _____
Padmaja PARAKALA

Date: _____

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

INVENTOR 2

Signature: _____
Surinder Singh PABLA

Date: _____

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

Witnessed by: _____
Signature

Date: _____

Printed Name of Witness

Docket No.: 260272/22113-0128
Customer No.: 13152

INVENTOR 3

Signature: _____

Joshua Lee MARGOLIES

Date: _____

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

INVENTOR 4

Signature: _____

James Anthony RUUD

Date: _____

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

Docket No.: 260272/22113-0128

Customer No.: 13152

INVENTOR 5

Signature: _____

Krishnamurthy ANAND

Date: _____

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

Witnessed by: _____

Signature

Date: _____

Printed Name of Witness

INVENTOR 6

Signature: _____

Jon Conrad Schaeffer
Jon Conrad SCHAEFFER

Date: _____

4/2/13

Witnessed by: _____

Signature

Date: _____

4/2/13

Rene Carene Copeland

Printed Name of Witness

Witnessed by: _____

Signature

Date: _____

4/2/13

Elisha Conrad

Printed Name of Witness