

## 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>Ming Xie</td> <td>12/05/2012</td> </tr> <tr> <td>Mark Ernest Vermilyea</td> <td>12/11/2012</td> </tr> <tr> <td>Bowden Kirkpatrick</td> <td>12/04/2012</td> </tr> <tr> <td>Mitchell Harold Boyer</td> <td>12/03/2012</td> </tr> <tr> <td>Elliott Keller Schulte</td> <td>11/28/2012</td> </tr> <tr> <td>Benjamin Ferrell</td> <td>02/20/2013</td> </tr> </tbody> </table>		Name	Execution Date	Ming Xie	12/05/2012	Mark Ernest Vermilyea	12/11/2012	Bowden Kirkpatrick	12/04/2012	Mitchell Harold Boyer	12/03/2012	Elliott Keller Schulte	11/28/2012	Benjamin Ferrell	02/20/2013
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Benjamin Ferrell	02/20/2013														
RECEIVING PARTY DATA															
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>13687117</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13687117										
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CORRESPONDENCE DATA															
Fax Number:	2194641166														
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
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Email:	gayle@hartmanglobal-ip.com														
Correspondent Name:	HARTMAN GLOBAL IP LAW														
Address Line 1:	2621 CHICAGO ST., STE A														
Address Line 4:	VALPARAISO, INDIANA 46383														
ATTORNEY DOCKET NUMBER:	256718-2														
NAME OF SUBMITTER:	Domenica N.S. Hartman														

CH \$40.00 13687117

**Total Attachments: 8**

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**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:

**COMPOSITE ARTICLE AND METHODS THEREFOR**

- the specification of which is attached hereto OR
- United States application or PCT international application number 13/687,117 filed on November 28, 2012.  
(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
Ming		Xie	of	Beavercreek	OH	US
Mark	Ernest	Vermilyea	of	Niskayuna	NY	US
Bowden		Kirkpatrick	of	Bennington	VT	US
Mitchell	Harold	Boyer	of	Cincinnati	OH	US
Elliott	Keller	Schulte	of	Hurst	TX	US
Benjamin		Ferrell	of	Cincinnati	OH	US

v9.18.12

GE Docket No. 256718-2

hereby sell and assign to:

Name of Company: <i>General Electric Company</i>
Entity Type (optional): <i>New York corporation</i>
Address: <i>1 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.



GE Docket No. 256718-2

INVENTOR 2

Signature: Mark Ernest Vermilyea  
Mark Ernest Vermilyea

Date: 12/11/12

Witnessed by: [Signature]  
Signature

Date: 11 December 2012

PAUL S. THOMPSON  
Printed Name of Witness

Witnessed by: [Signature]  
Signature

Date: 12/11/2012

MINFENG XU  
Printed Name of Witness

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

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

Mark Ernest Vermilyea

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named **Mark Ernest Vermilyea**, 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)

GE Docket No. 256718-2

INVENTOR 3

Signature: Bowden Kirkpatrick  
**Bowden Kirkpatrick**

Date: 4 DEC 2012

Witnessed by: Malissa Schaffter  
Signature

Date: 4 Dec 2012

Malissa Schaffter  
Printed Name of Witness

Witnessed by: Shridhar C Nath  
Signature

Date: DEC 4, 2012

SHRIDHAR C NATH  
Printed Name of Witness

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

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

**Bowden Kirkpatrick**

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

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named **Bowden Kirkpatrick**, 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)

GE Docket No. 256718-2

INVENTOR 4

Signature: *Mitchell Harold Boyer*  
**Mitchell Harold Boyer**

Date: 12/3/2012

Witnessed by: *Qiang Li*  
Signature

Date: 12/3/2012

QIANG LI  
Printed Name of Witness

Witnessed by: *Anthony M. Gunasekera*  
Signature

Date: 12/03/2012

ANTHONY M GUNASEKERA  
Printed Name of Witness

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

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

**Mitchell Harold Boyer**

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named **Mitchell Harold Boyer**, 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)



GE Docket No. 256718-2

INVENTOR 5

Signature: *Elliott K Schulte*  
Elliott Keller Schulte

Date: 11/28/2012

Witnessed by: *R. Mark Chris*  
Signature

Date: 11/28/2012

R. MARK CHRIS  
Printed Name of Witness

Witnessed by: *L. W. Wehmuller*  
Signature

Date: 11/28/2012

L. W. WEHMULLER  
Printed Name of Witness

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

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

**Elliott Keller Schulte**

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named **Elliott Keller Schulte**, 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)

GE Docket No. 256718-2

INVENTOR 6

Signature: [Handwritten Signature]  
Benjamin Ferrell

Date: 2-20-13

Witnessed by: [Handwritten Signature]  
Signature  
Allen Keyes  
Printed Name of Witness

Date: 2/20/13

Witnessed by: [Handwritten Signature]  
Signature  
Mike Erskine  
Printed Name of Witness

Date: 2/20/2013

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

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

**Benjamin Ferrell**

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named **Benjamin Ferrell**, 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)