503617656 12/17/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3664287

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------------|----------------|
| JOHN CHARLES INTILE | 12/17/2015 |
| STANLEY FRANK SIMPSON | 12/17/2015 |

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

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14973501 |

CORRESPONDENCE DATA

Fax Number: (314)612-2307

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Correspondent Name: PATENT DOCKET DEPARTMENT (17851) ARMSTRO

Address Line 1: 7700 FORSYTH BOULEVARD

Address Line 2: SUITE 1800

Address Line 4: ST. LOUIS, MISSOURI 63105

| ATTORNEY DOCKET NUMBER: 285492 (17851-1161) | | |
|--|--|--|
| NAME OF SUBMITTER: | MICHAEL H. LONGMEYER | |
| SIGNATURE: | /Michael H. Longmeyer/ | |
| DATE SIGNED: | 12/17/2015 | |
| | This document serves as an Oath/Declaration (37 CFR 1.63). | |

Total Attachments: 5

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PATENT 503617656 REEL: 037321 FRAME: 0819

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PATENT REEL: 037321 FRAME: 0820 GE Docket No.: 285492

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:

METHOD AND ASSEMBLY FOR FORMING COMPONENTS HAVING INTERNAL PASSAGES USING A LATTICE STRUCTURE

| \boxtimes | 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 t | tc |
| | 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 |
|------------------------|----------------------------|-----------------------|----|----------------|--------------------|----------------------|
| Michael | Douglas | Arnett | of | Simpsonville | SC | US |
| John | Charles | Intile | of | Simpsonville | SC | US |
| Stanley | Frank | Simpson | of | Simpsonville | SC | US |

GE Docket No.: 285492

hereby sell and assign to:

| Name of Company: General Electric Company | |
|--|--|
| Entity Type (optional): New York corporation | |
| Address: 1 River Road, Schenectady, New York 12345 USA | |

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.: 285492 | |
|--|--|
| INVENTOR 1 | |
| Signature: | Date: |
| Witnessed by:Signature | Date: |
| Printed Name of Witness | |
| Witnessed by: Signature | Date: |
| Printed Name of Witness | |
| SECTION BELOW IS FOR USE ONLY IF | SIGNING IN PRESENCE OF A NOTARY |
| Michael Douglas Arnett | Date: |
| STATE OF ss. | |
| This day of, Michael Douglas Arnett, to me personally lassignment, who acknowledged to me that have the purposes therein set forth. | before me personally came the above-named known as the individual who executed the foregoing ne/she executed the same of his/her own free will for |
| Seal | |
| 4. | (Notary Public) |

| INVENTOR 2 | |
|--|---|
| Signature: Le Julia John Charles Intile | Date: 19/11/2015 |
| Witnessed by: Signature | Date: 12/17/2015 |
| Printed Name of Witness | _ |
| Witnessed by: Brigging Signature | Date: 12/17/2015 |
| Printed Name of Witness | |
| SECTION BELOW IS FOR USE ONLY IF SIG | GNING IN PRESENCE OF A NOTARY |
| | Date: |
| John Charles Intile | Date. |
| STATE OF ss. | |
| COUNTY OF | |
| This day of, John Charles Intile, to me personally known assignment, who acknowledged to me that he/s the purposes therein set forth. | before me personally came the above-named n as the individual who executed the foregoing she executed the same of his/her own free will for |
| Seal | |
| ************************************** | (Notany Public) |

v.9.18.12

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|---|-------------------------------|--|--|
| INVENTOR 3 | | | |
| Signature: Stanley Frank Simpson | Date: | | |
| Witnessed by:Signature | Date: | | |
| Printed Name of Witness | _ | | |
| Witnessed by:Signature | Date: | | |
| Printed Name of Witness SECTION BELOW IS FOR USE ONLY IF SIG | GNING IN PRESENCE OF A NOTARY | | |
| Hanley Frank Simpson Date: December 17, 2015 | | | |
| STATE OF SOUTH CAROLINA: COUNTY OF GREENVILLE | | | |
| This day of December, 2015 before me personally came the above-named Stanley Frank Simpson, 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 KINSERUL RANKIN (Notary Public) O4/12/17 | | | |