

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5535073

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| KATHLEEN LOMBARD HENDRICKS | 04/18/2019 |
| RICHARD BRYAN GUINEY | 04/23/2019 |
| LENIN RAMASAMY RAMACHANDRAN | 04/24/2019 |
| BRIAN JAMES CROCKETT | 04/24/2019 |
| ANTHONY S. URBANSKI | 04/16/2019 |
| BRENDA CATHERINE TENLEY | 04/24/2019 |
| 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: | 16419215 |
| CORRESPONDENCE DATA | |
| Fax Number: | (616)742-1010 |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | |
| Phone: | 6167423500 |
| Email: | patents@mcgarrybair.com |
| Correspondent Name: | MCGARRY BAIR PC / GENERAL ELECTRIC COMPA |
| Address Line 1: | 45 OTTAWA AVE. SW, SUITE 700 |
| Address Line 4: | GRAND RAPIDS, MICHIGAN 49503 |
| ATTORNEY DOCKET NUMBER: | 328059-US-1/72266-0570 |
| NAME OF SUBMITTER: | JEANINE G. GASPER |
| SIGNATURE: | /Jeanine G Gasper/ |
| DATE SIGNED: | 05/22/2019 |
| 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:

METHOD OF FORMING COOLING HOLES

- 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 |
|---------------------|----------------------|--------------------|----|----------------|-----------------|-------------------|
| Kathleen | Lombard | Hendricks | of | Bedford | MA | US |
| Richard | Bryan | Guiney | of | Maineville | OH | US |
| Lenin | Ramasamy | Ramachandran | of | Arlington | MA | US |
| Brian | James | Crockett | of | South Palmer | IN | US |
| Anthony | S. | Urbanski | of | Terre Haute | IN | US |
| Brenda | Catherine | Tenley | of | Hamilton | OH | US |

v9.18.12

hereby sell and assign to:

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

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 |
|-------------------|----------------|--------------------|-------------|-------|
| | | | | |
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(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: Kathleen Lombard Hendricks
Kathleen Lombard Hendricks

Date: 4-18-2019

Witnessed by: [Signature]
Signature

Date: 4-18-2019

Robert M. Brownson
Printed Name of Witness

Witnessed by: [Signature]
Signature

Date: 4/18/2019

Beverly J. Brownson
Printed Name of Witness

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

Kathleen Lombard Hendricks

Date: _____

STATE OF

ss.

COUNTY OF

This _____ day of _____, _____ before me personally came the above-named Kathleen Lombard Hendricks, 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: Richard B. Guiney
Richard Bryan Guiney

Date: 04/23/2019

Witnessed by: Edward M. Even
Signature

Date: 4/23/2019

EDWARD M. EVEN
Printed Name of Witness

Witnessed by: Kenneth Kaiser
Signature

Date: 4/23/2019

Kenneth Kaiser
Printed Name of Witness

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

Richard Bryan Guiney Date: _____

STATE OF

ss.

COUNTY OF

This _____ day of _____, _____ before me personally came the above-named Richard Bryan Guiney, 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: *R. Ramasamy*
Lenin Ramasamy Ramachandran

Date: 04/24/2019

Witnessed by: *Bradley W. Shaffer*
Signature

Date: 2019, 04, 24

Bradley W. Shaffer
Printed Name of Witness

Witnessed by: *Alexander Mantley-Helton*
Signature

Date: 4/24/2019

Alexander Mantley-Helton
Printed Name of Witness

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

Lenin Ramasamy Ramachandran

Date: _____

STATE OF

ss.

COUNTY OF

This _____ day of _____, _____ before me personally came the above-named **Lenin Ramasamy Ramachandran**, 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 James Crockett
Brian James Crockett

Date: 4/24/19

Witnessed by: Chris Pate
Signature

Date: 4/24/19

Chris Pate
Printed Name of Witness

Witnessed by: Kelly Hutchcraft
Signature

Date: 4/24/19

Kelly Hutchcraft
Printed Name of Witness

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

Brian James Crockett Date: _____

STATE OF _____
COUNTY OF _____

ss.

This _____ day of _____, _____ before me personally came the above-named Brian James Crockett, 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: Anthony S. Urbanski
Anthony S. Urbanski

Date: 4-16-19

Witnessed by: J. Edward DeVore
Signature

Date: 4-16-19

J. Edward DeVore
Printed Name of Witness

Witnessed by: Daniel Swaby
Signature

Date: 4/16/19

Daniel Swaby
Printed Name of Witness

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

Anthony S. Urbanski Date: _____

STATE OF _____
COUNTY OF _____ ss.

This _____ day of _____ before me personally came the above-named Anthony S. Urbanski, 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 6

Signature: Brenda Catherine Tenley Date: 4/24/19
Brenda Catherine Tenley

Witnessed by: James Pohlen Date: 4/24/19
Signature

James Pohlen
Printed Name of Witness

Witnessed by: John W. Eitel Date: 4/24/19
Signature

John W. Eitel
Printed Name of Witness

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

Brenda Catherine Tenley Date: _____

STATE OF _____
COUNTY OF _____ ss.

This _____ day of _____, _____ before me personally came the above-named Brenda Catherine Tenley, 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)