

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5287510

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
ROBERT F. SENZIG	05/14/2012
RAVIKANTH AVANCHA	03/21/2012
BIJAN DORRI	03/26/2012
SANDEEP DUTTA	03/23/2013
STEVEN J. GRAY	05/03/2012
JIANG HSIEH	04/17/2012
JOHN IRVIN JACKSON	03/21/2012
GIRIDHAR JOTHIPRASAD	04/20/2012
PAUL EDGAR LICATO	03/22/2012
DARIN ROBERT OKERLUND	03/21/2012
TOSHIHIRO RIFU	03/21/2012
SAAD AHMED SIROHEY	03/21/2012
BASEL TAHA	03/21/2012
PETER MICHAEL EDIC	04/19/2012
JEROME KNOPLIOCH	03/26/2012
RAHAL BHOTIKA	04/13/2012

**RECEIVING PARTY DATA**

<b>Name:</b>	General Electric Company
<b>Street Address:</b>	1 River Road
<b>City:</b>	Schenectady
<b>State/Country:</b>	NEW YORK
<b>Postal Code:</b>	12345

**PROPERTY NUMBERS Total: 1**

Property Type	Number
<b>Application Number:</b>	16222586

**CORRESPONDENCE DATA**

**Fax Number:** (281)970-4503

*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.*

**PATENT**

**Phone:** 281-970-4545  
**Email:** rariden@fyiplaw.com, robinson@fyiplaw.com, docket@fyiplaw.com  
**Correspondent Name:** FLETCHER YODER, C/O JOHN M. RARIDEN  
**Address Line 1:** P.O. BOX 692289  
**Address Line 4:** HOUSTON, TEXAS 77269-2289

**ATTORNEY DOCKET NUMBER:** 251511-3 (GEMS:0567-1)

**NAME OF SUBMITTER:** JASON D. GRIER

**SIGNATURE:** /Jason D. Grier/

**DATE SIGNED:** 12/17/2018

**Total Attachments: 17**

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**ASSIGNMENT**

In accordance with 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 we acknowledge receipt, we,

Robert F. Senzig	of	Germantown, WI, US
Ravikanth Avancha	of	Niskayuna, NY, US
Bijan Dorri	of	Hartland, WI, US
Sandeep Dutta	of	Waukesha, WI, US
Steven J. Gray	of	Elm Grove, WI, US
Jiang Hsieh	of	Brookfield, WI, US
John Irvin Jackson	of	Brookfield, WI, US
Giridhar Jothiprasad	of	Clifton Park, NY, US
Paul Edgar Licato	of	Wauwatosa, WI, US
Darin Robert Okerlund	of	Muskego, WI, US
Toshihiro Rifu	of	Milwaukee, WI, US
Saad Ahmed Sirohey	of	Pewaukee, WI, US
Basel Taha	of	Madison, WI, US
Peter Michael Edic	of	Albany, NY, US
Jerome Knoplioch	of	Neuilly Sur Seine, FR
Rahul Bhotika	of	Albany, NY, US

hereby sell and assign to **General Electric Company, a New York Corporation**, having an address at 1 River Road, Schenectady, New York 12345, USA, hereinafter referred to as "Company", its successors and assigns our entire respective rights, titles and interests in and to the invention and improvements invented and originated by us and described in the US Patent Application No. 13/425,724 for United States Patent currently entitled:

**SYSTEM AND METHOD FOR ESTIMATING VASCULAR FLOW USING CT IMAGING**

filed on March 21, 2012,

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 Company, or its successors or assigns and agree that on request and without further consideration, but at the expense of said Company, we will communicate to said Company or its representatives or nominees any facts known to 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 Company, its successors, assigns, and nominees to obtain and enforce proper patent protection for said invention and its improvements in all countries.

Docket No. 251511-2 (8081.619)

Title: SYSTEM AND METHOD FOR ESTIMATING VASCULAR FLOW USING CT IMAGING

"Assignment Signature Page"

INVENTOR 1

Signature: *Robert F. Senzig*  
Robert F. Senzig

Date: 5-14-2012

Witnessed by: *Stephen Slavens*  
Signature

Date: 5-14-2012

Stephen Slavens  
Printed Name of Witness

Witnessed by: *Priti Madhav*  
Signature

Date: 5-14-2012

Priti Madhav  
Printed Name of Witness

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

\_\_\_\_\_  
Robert F. Senzig

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

STATE OF

ss.

COUNTY OF


This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Robert F. Senzig, 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)

"Assignment Signature Page"

INVENTOR 2

Signature:  Date: MARCH 21, 2012  
Ravikanth Avancha

Witnessed by:  Date: 3/21/2012  
Signature

Lyle D. Dailey  
Printed Name of Witness

Witnessed by:  Date: 3/21/2012  
Signature

David G. Cherry  
Printed Name of Witness

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

\_\_\_\_\_  
Ravikanth Avancha Date: \_\_\_\_\_

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Ravikanth Avancha, 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)

Docket No. 251511-2 (8081.619)

Title: SYSTEM AND METHOD FOR ESTIMATING VASCULAR FLOW USING CT IMAGING

"Assignment Signature Page"

INVENTOR 3

Signature: \_\_\_\_\_  
Bijan Dorri

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

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

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

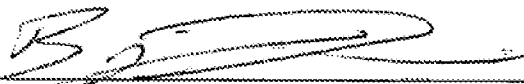
\_\_\_\_\_  
Printed Name of Witness

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

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

\_\_\_\_\_  
Printed Name of Witness

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

  
Bijan Dorri

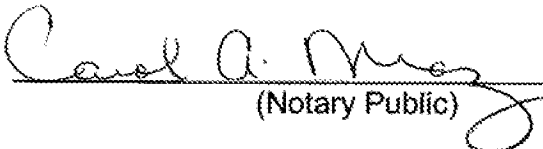
Date: 3-26-2012

STATE OF WI

COUNTY OF WAUKESHA ss.

This 26 day of MARCH, 2012 before me personally came the above-named **Bijan Dorri**, 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)

"Assignment Signature Page"

INVENTOR 4

Signature: [Signature]  
Sandeep Dutta

Date: 3/23/12

Witnessed by: [Signature]  
Signature

Date: 3/23/2012

CHARLES A. BISORDI  
Printed Name of Witness

Witnessed by: [Signature]  
Signature

Date: 3/23/2012

Jayne Leverentz  
Printed Name of Witness

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

\_\_\_\_\_  
Sandeep Dutta

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

STATE OF

ss.

COUNTY OF

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

Docket No. 251511-2 (8081.619)

Title: SYSTEM AND METHOD FOR ESTIMATING VASCULAR FLOW USING CT IMAGING

"Assignment Signature Page"

INVENTOR 5

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Steven J. Gray

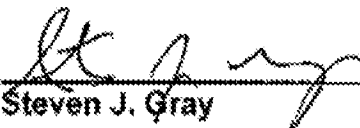
Witnessed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature

Printed Name of Witness

Witnessed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature

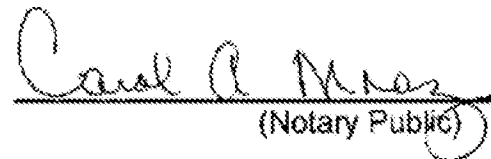
Printed Name of Witness

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

 \_\_\_\_\_ Date: MAY 3, 2012

STATE OF WI  
COUNTY OF WALKESHA ss.

This 3 day of MAY, 2012 before me personally came the above-named Steven J. Gray, 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)



Docket No. 251511-2 (8081.619)

Title: SYSTEM AND METHOD FOR ESTIMATING VASCULAR FLOW USING CT IMAGING

"Assignment Signature Page"

INVENTOR 6

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Jiang Hsieh

Witnessed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name of Witness

Witnessed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name of Witness

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

Jiang Hsieh Date: 4/17/12  
Jiang Hsieh

STATE OF WI  
COUNTY OF WAUKESHA ss.

This 17 day of APRIL, 2012 before me personally came the above-named Jiang Hsieh, 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 Carol A. Meyer  
(Notary Public)

Docket No. 251511-2 (8081.619)

Title: SYSTEM AND METHOD FOR ESTIMATING VASCULAR FLOW USING CT IMAGING

"Assignment Signature Page"

INVENTOR 7

Signature: [Handwritten Signature]  
John Irvin Jackson

Date: 3/21/2012

Witnessed by: [Handwritten Signature]  
Signature

Date: 3/21/2012

Mark Profio  
Printed Name of Witness

Witnessed by: [Handwritten Signature]  
Signature

Date: March 21, 2012

Ron A. Nilsen  
Printed Name of Witness

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

\_\_\_\_\_  
John Irvin Jackson

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

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named John Irvin Jackson, 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)

Docket No. 251511-2 (8081.619)

Title: SYSTEM AND METHOD FOR ESTIMATING VASCULAR FLOW USING CT IMAGING

"Assignment Signature Page"

INVENTOR 8

Signature: J. Giridhar  
Giridhar Jothiprasad

Date: 20 April 2012

Witnessed by: [Signature]  
Signature

Date: 04/20/2012

KISHORE RAMAKRISHNAN  
Printed Name of Witness

Witnessed by: [Signature]  
Signature

Date: April 20, 2012

Hsuannion Chen  
Printed Name of Witness

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

\_\_\_\_\_  
Giridhar Jothiprasad

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

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

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Giridhar Jothiprasad, 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)

"Assignment Signature Page"

INVENTOR 9

Signature: Paul E Licato  
Paul Edgar Licato

Date: 22 March 2012

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**

Paul Edgar Licato  
Paul Edgar Licato

Date: 22 March 2012

STATE OF Wisconsin  
COUNTY OF Waukesha ss.

This 22 day of March, 2012 before me personally came the above-named Paul Edgar Licato, 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

Diane M. Clohesy  
(Notary Public)



Docket No. 251511-2 (8081.619)

Title: SYSTEM AND METHOD FOR ESTIMATING VASCULAR FLOW USING CT IMAGING

"Assignment Signature Page"

INVENTOR 10

Signature: Darin Robert Okerlund Date: March 21, 2012  
Darin Robert Okerlund

Witnessed by: Mark Profio Date: 3/21/2012  
Signature

Mark Profio  
Printed Name of Witness

Witnessed by: Roy A. Nilsen Date: March 21, 2012  
Signature

Roy A. Nilsen  
Printed Name of Witness

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

\_\_\_\_\_  
Darin Robert Okerlund Date: \_\_\_\_\_

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

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named **Darin Robert Okerlund**, 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.

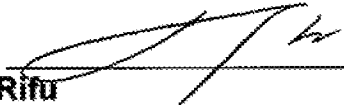
Seal  
\_\_\_\_\_  
(Notary Public)

Docket No. 251511-2 (8081.619)

Title: SYSTEM AND METHOD FOR ESTIMATING VASCULAR FLOW USING CT IMAGING

"Assignment Signature Page"

INVENTOR 11

Signature:   
Toshihiro Rifu

Date: March 21, 2012

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**

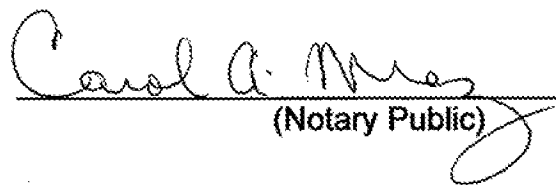
  
Toshihiro Rifu

Date: March 21, 2012

STATE OF WI

COUNTY OF WAUKESHA ss.

This 21 day of MARCH, 2012 before me personally came the above-named Toshihiro Rifu, 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)

Docket No. 251511-2 (8081.619)

Title: SYSTEM AND METHOD FOR ESTIMATING VASCULAR FLOW USING CT IMAGING

"Assignment Signature Page"

INVENTOR 12

Signature: [Handwritten Signature]  
Saad Ahmed Sirohey

Date: Mar 21 '12

Witnessed by: [Handwritten Signature]  
Signature

Date: 3/21/12

Rebecca Serwood  
Printed Name of Witness

Witnessed by: [Handwritten Signature]  
Signature

Date: March 21, 2012

Donna L. Lobacz  
Printed Name of Witness

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

\_\_\_\_\_  
Saad Ahmed Sirohey

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

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Saad Ahmed Sirohey, 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)

"Assignment Signature Page"

INVENTOR 13

Signature: *Basel Taha* Date: 21 March 2012  
Basel Taha

Witnessed by: *Linda Van Grinsven* Date: 21 March 2012  
Signature

Linda Van Grinsven  
Printed Name of Witness

Witnessed by: *Scott Slavic* Date: 21 March 2012  
Signature

Scott Slavic  
Printed Name of Witness

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

\_\_\_\_\_  
Basel Taha Date: \_\_\_\_\_

STATE OF

ss.

COUNTY OF

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



Docket No. 251511-2 (8081.619)

Title: SYSTEM AND METHOD FOR ESTIMATING VASCULAR FLOW USING CT IMAGING

"Assignment Signature Page"

INVENTOR 14

Signature: Peter Michael Edic  
Peter Michael Edic

Date: 4/19/2012

Witnessed by: [Signature]  
Signature

Date: 4/19/2012

V. LOBASTOV  
Printed Name of Witness

Witnessed by: [Signature]  
Signature

Date: 4/19/2012

DAVID D. HARRISON  
Printed Name of Witness

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

\_\_\_\_\_  
Peter Michael Edic

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

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named **Peter Michael Edic**, 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)

Docket No. 251511-2 (8081.619)

Title: SYSTEM AND METHOD FOR ESTIMATING VASCULAR FLOW USING CT IMAGING

"Assignment Signature Page"

INVENTOR 15

Signature: [Handwritten Signature]  
Jerome Knoploch

Date: 26/03/12

Witnessed by: [Handwritten Signature]  
Signature

Date: 26/03/12

Vincent Adam  
Printed Name of Witness

Witnessed by: [Handwritten Signature]  
Signature

Date: 26/03/2012

Laurie Lawlor  
Printed Name of Witness

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\_\_\_\_\_  
Jerome Knoploch

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

STATE OF

ss.

COUNTY OF

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

"Assignment Signature Page"

INVENTOR 16

Signature: Rahul Bhotika  
Rahul Bhotika

Date: 4/17/2012

Witnessed by: [Signature]  
Signature

Date: 4/17/2012

Rui Li  
Printed Name of Witness

Witnessed by: [Signature]  
Signature

Date: 4/17/2012

Avasarala Viswanath  
Printed Name of Witness

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

\_\_\_\_\_  
Rahul Bhotika

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

STATE OF

ss.

COUNTY OF

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