505240730 12/17/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5287510

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	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

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:	16222586

CORRESPONDENCE DATA

(281)970-4503 Fax Number:

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.

REEL: 047799 FRAME: 0080 505240730

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

source=251511 3 US Assignment 17DEC2018#page1.tif source=251511_3 US Assignment 17DEC2018#page2.tif source=251511_3 US Assignment 17DEC2018#page3.tif source=251511 3 US Assignment 17DEC2018#page4.tif source=251511_3 US Assignment 17DEC2018#page5.tif source=251511 3 US Assignment 17DEC2018#page6.tif source=251511 3 US Assignment 17DEC2018#page7.tif source=251511 3 US Assignment 17DEC2018#page8.tif source=251511_3 US Assignment 17DEC2018#page9.tif source=251511 3 US Assignment 17DEC2018#page10.tif source=251511 3 US Assignment 17DEC2018#page11.tif source=251511_3 US Assignment 17DEC2018#page12.tif source=251511_3 US Assignment 17DEC2018#page13.tif source=251511_3 US Assignment 17DEC2018#page14.tif source=251511 3 US Assignment 17DEC2018#page15.tif source=251511_3 US Assignment 17DEC2018#page16.tif source=251511 3 US Assignment 17DEC2018#page17.tif

> PATENT REEL: 047799 FRAME: 0081

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,

of	Germantown, WI, US
of	Niskayuna, NY, US
of	Hartland, WI, US
of	Waukesha, WI, US
of	Elm Grove, WI, US
of	Brookfield, WI, US
of	Brookfield, WI, US
of	Clifton Park, NY, US
of	Wauwatosa, WI, US
of	Muskego, WI, US
of	Milwaukee, WI, US
of	Pewaukee, WI, US
of	Madison, WI, US
of	Albany, NY, US
of	Neuilly Sur Seine, FR
of	Albany, NY, US
	of of of of of of of of

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.

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Docket No. 251511-2 (8081.619) Title: SYSTEM AND METHOD FOR ESTIMATION IMAGING	NG VASCULAR FLOW USING CT
"Assignment Signa	iture Page"
INVENTOR 1 Signature:	
Signature: Senzig	Date: <u>5-14-2012</u>
Witnessed by: The Laves Signature	Date: <u>5-14-2012</u>
Sphen Slavers Printed Name of Witness	
Witnessed by: <u>Puit Doub</u> Signature	Date: <u>\$-{4-2-8(2</u>
Printed Name of Witness	
SECTION BELOW IS FOR USE ONLY IF SIG	ONING IN PRESENCE OF A NOTARY
Robert F. Senzig	Date:
STATE OF	
COUNTY OF	
This day of	before me personally came the above-
The same of the sa	ee oo bid maaaama waa camaada ak

(Notary Public)

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

IMAGING "Assignment Signat	ura Dana"
Moorifittiett affitat	uie rage
INVENTOR 2	
Signature: Ravikanth Avancha	Date: MARCH 21, 2012
Witnessed by: Al Dala Signature	Date: 3/2//2012
Lyle D. Dailey	
Printed Name of Witness	· ·
Witnessed by: <u>David G. Chary</u> Signature	Date: 3/2//2019—
David G. Cherry Printed Name of Witness	
SECTION BELOW IS FOR USE ONLY IF SIG	NING IN PRESENCE OF A NOTARY
Ravikanth Avancha	Date:
STATE OF	
county of	
This day of,,,,,,,	own as the individual who executed the
Seal	
(Notary Public)	

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IMAGING

"Assignment Signature Page"

INVENTOR 3	
Signature: Bijan Dorri	Date:
Witnessed by:Signature	Date:
Printed Name of Witness	
Witnessed by:Signature	Date:
<u> </u>	F SIGNING IN PRESENCE OF A NOTARY Date: 3-26-2012
STATE OF WY COUNTY OF WAUKESHA	
This 26 day of MARCA, 20 named <u>Bijan Dorri</u> , to me personally known assignment, who acknowledged to me that I will for the purposes therein set forth.	as the individual who executed the foregoin
Seal Carol a. Mas	
(Notary Public)	

Page 4 of 17

		"Assignment Sigr	nature Page"	
INVENTOR 4				
Signature: Sandeep D u	itta 🔊	<u>. </u>	Date: 3/23/13	<u>~</u>
Witnessed b	y: <u>000-</u>	Signature	Date: 3/23/26/	<u> </u>
<u>Сиаки</u> Printed Nam	<u>s A 공(x</u> e of Witness	·261		
Witnessed by	v. Jagove f	Signature T	Date: 3 3 3 3 0	13
		R USE ONLY IF S	IGNING IN PRESENCE C	OF A NOTARY
			Date:	
Sandeep Du	ıtta			
STATE OF	 **	8 \$.		
foregoing as	signment, who	ne personally knov acknowledged to n es therein set forth	before me personally con as the individual who exine that he/she executed the	ame the above- secuted the e same of his/her
Seal				
Montener	•	(Notary Public)	······································	

Title: SYSTEM AND METHOD FOR ESTIMATING VASCULAR FLOW USING CT

Docket No. 251511-2 (8081.619)

IMAGING

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IMAGING

"Assignment Signature Page"

INVENTOR 5			
Signature: Steven J. Gray	·	Date:	
Witnessed by:	Signature	Date:	
Printed Name of Witne			
Witnessed by:	Signature	Date:	
7.		F SIGNING IN PRESENCE OF A NO	
STATE OF WAW	es. Cesha		
foregoing assignment own free will for the pr	, who acknowledged t	<u>ତୀର</u> before me personally came the nown as the individual who executed to o me that he/she executed the same o inth.	above- he of his/he
Seal Qual	(Notary Public)	***************************************	

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PATENT REEL: 047799 FRAME: 0087

IMAGING

"Assignment Signature Page"

INVENTOR 6			
Signature: Jiang Hsieh		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 PRESENC	***************************************
<u> </u>		Date: <u>4//7/</u>	12
named Jiang Hsieh , to n foregoing assignment, who own free will for the purpo	2011 2 ne personally know no acknowledged to ses therein set fo		ecuted the
	(Notary Public)		

Docket No. 251511-2 (8081.619) Title: SYSTEM AND METHOD FOR ESTIMATIN IMAGING "Assignment Signa	
INVENTOR 7	
Signature: 2000 Older Signature: John Irvin Jackson	Date: 3/21/2012
Witnessed by: <u>MAGA</u> Signature Mark Gafija	Date: 3/31/3013
上記さん 以指行力 Printed Name of Witness	•
	Date: <u>게/www. </u>
Printed Name of Witness	
SECTION BELOW IS FOR USE ONLY IF SIG	NING IN PRESENCE OF A NOTARY
John Irvin Jackson	Date:
STATE OF	
COUNTY OF	

(Notary Public)

own free will for the purposes therein set forth.

Seal

This _____ day of ______, ____ before me personally came the abovenamed <u>John Irvin Jackson</u>, 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

Docket No. 251511-2 (8081.619) Title: SYSTEM AND METHOD FOR ESTIMA IMAGING	TING VASC	ULAR FLOW USING CT
"Assignment Sig	mature Page	
INVENTOR 8		
Signature: 1 42/24	Date	20 Mpil 2012
Giridhar Jothiprasad	******	
Witnessed by:	Date	84/20/2012
Signature		
KISHARE RAMAKEISHMAN		
Printed Name of Witness		
Witnessed by: <u>////</u> Signature	Date	<u> April 20, 20/2</u>
Henannion Chen		
Printed Name of Witness		
SECTION BELOW IS FOR USE ONLY IF	SIGNING IN	PRESENCE OF A NOTARY
	Date	
Giridhar Jothiprasad		
STATE OF		
COUNTY OF		
Thisday of		ne personally came the above-
named <u>Girldhar Jothiprasad</u> , to me persona the foregoing assignment, who acknowledge his/her own free will for the purposes therein	d to me that	i me marvioual who executed he/she executed the same of
Seal		
(Notary Public)		

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Docket No. 251511-2 (8081.619)

Title: SYSTEM AND METHOD FOR ESTIMATING VASCULAR FLOW USING CT

IMAGING

"Assignment Signature Page"

INVENTOR 9			
Signature: Aud Paul Edgar Licato	(fuilo	Date:	22 March 2012
Witnessed by:	Signature	Date:	
Printed Name of Witr	ness		

Signature

Printed Name of Witness

Witnessed by: ____

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

Date: 22/1mc/12012 Paul Edgar Licato

STATE OF WISCONSER COUNTY OF Wankersha

This 22 day of 1 arch ,2012 before me personally came the abovenamed 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 FOF WISO'S

Page 10 of 17

Docket No. 251511-2 (8081,619) Title: SYSTEM AND METHOD FOR ESTIMATING	VASCULAR FLOW LISING CT
IMAGING	, MOCOCAIL LOW CORNS CI
"Assignment Signatu	re Page"
INVENTOR 10	
Signature: Polist Hecky Darin Robert Okerlund	Date: March 21, 2012
Witnessed by: MM PMI Signature	Date: 3/4//30/2
Mark Profic	
Printed Name of Witness	
Witnessed by: Roy A. Nilsen Printer Heads of Witness	Date: Mark 21, 2012
Printed-Name of Witness	
SECTION BELOW IS FOR USE ONLY IF SIGN	IING IN PRESENCE OF A NOTARY
Darin Robert Okerlund	Date:
Danii Nobelt Okellulu	
STATE OF	
COUNTY OF	
This day of b named <u>Darin Robert Okerlund</u> , to me personally the foregoing assignment, who acknowledged to make his/her own free will for the purposes therein set for	ne that he/she executed the same of
Seal	

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(Notary Public)

Docket No. 251511-2 (8081.619)

Title: SYSTEM AND METHOD FOR ESTIMATING VASCULAR FLOW USING CT

IMAGING

"Assignment Signature Page"

INVENTOR 11 Date: March 21, 2012 Signature: Toshihiro Rifu Witnessed by: 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: March 21, 2012 Toshihiro Rifu STATE OF WI SS. COUNTY OF WALLESHA This 21 day of MARCH , 2012 before me personally came the abovenamed 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

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Docket No. 251511-2 (8081.619)

Title: SYSTEM AND METHOD FOR ESTIMATING VASCULAR FLOW USING CT

IMAGING

"Assignment Signature Page"

INVENTOR 1	2	
Signature: Saad Ahmed	Stroney,	Date: <u>Mov 21 /12</u>
Witnessed by	Signature	Date: <u>3/2/172</u>
<u> </u>	COLUMNITY of Witness	
Witnessed by	Signature	Date: <u>March 24,20</u> 2
Printed Name		**************************************
Saad Ahmed		Date:
STATE OF	\$\$.	
the foregoing a	Ahmed Sirohey , to me personal	before me personally came the above- lly known as the individual who executed to me that he/she executed the same of set forth.
Seal		
	(Notary Public)	

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Docket No. 251511-2 (8081.619)	
Title: SYSTEM AND METHOD FOR ESTIMA	TING VASCULAR FLOW USING CT
IMAGING "Assignment Sig	noture Page"
Assignment Sig	Juature rage
INVENTOR 13	
Signature: Signature: Basel Taha	Date: 21 March 2012
Witnessed by: XXV Signature	Date: 21 March 2017
Printed Name of Witness	
Witnessed by: Signature	Date: 21 March 2012
Printed Name of Witness	wherean
SECTION BELOW IS FOR USE ONLY IF	SIGNING IN PRESENCE OF A NOTARY
	Date:
Basel Taha	
STATE OF	
COUNTY OF	
This day of,,,,,,,	before me personally came the above- as the individual who executed the foregoing a/she executed the same of his/her own free
Seal	

(Notary Public)

"Assignment Signature Page"		
INVENTOR 14		
Signature: The Michael Chil Peter Michael Edic	Date: 4/19/2012	
Witnessed by:	Date: 4/19/2012	
V. LOBAS TOV		
Printed Name of Witness		
Witnessed by:	Date: 4/4/2012	
Daniel Dinness		
LITTED INGTHE OF ANTHESS		
1 HINGO 140HIG OF ANTHOSA		
SECTION BELOW IS FOR USE ONLY IF	SIGNING IN PRESENCE OF A NOTARY	
	SIGNING IN PRESENCE OF A NOTARY	
SECTION BELOW IS FOR USE ONLY IF	SIGNING IN PRESENCE OF A NOTARY Date:	
SECTION BELOW IS FOR USE ONLY IF		
SECTION BELOW IS FOR USE ONLY IF Peter Michael Edic STATE OF ss.		
SECTION BELOW IS FOR USE ONLY IF Peter Michael Edic STATE OF		
SECTION BELOW IS FOR USE ONLY IF Peter Michael Edic STATE OF SS. COUNTY OF This day of, named Peter Michael Edic, to me personally	Date:before me personally came the above- y known as the individual who executed the me that he/she executed the same of his/her	
Peter Michael Edic STATE OF COUNTY OF This day of, named Peter Michael Edic, to me personally foregoing assignment, who acknowledged to	Date:before me personally came the above- y known as the individual who executed the me that he/she executed the same of his/her	

IMAGING

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Title: SYS	o. 251511-2 (8081.619) STEM AND METHOD FOR ESTIMATIN GING	IG VASCULAR FLOW USING CT
INA	"Assignment Signal	ture Page"
INVENTO	R 15	
Signature: Jerome K	nopliaek	Date: <u>86/03/12</u>
Witnessed	- N	Date: 26/03/12
	<u>→ AJo</u> ame of Witness	
Witnessed	I by: Signature	Date: 26/03/7012
	mpy LourieuV ame of Witness	
SECTIO	ON BELOW IS FOR USE ONLY IF SIG	NING IN PRESENCE OF A NOTARY
Jerome K	noplioch	Date:
STATE OF		
COUNTY	of	
foregoing a		before me personally came the above- own as the individual who executed the that he/she executed the same of his/he
Seal		
•••	(Notary Public)	

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Docket No. 251511-2 (8081.619)
Title: SYSTEM AND METHOD FOR ESTIMATING VASCULAR FLOW USING CT
IMAGING
"Assignment Signature Page"

INVENTOR 16	
Signature: fall this Rahul Bhotika	Date: 4/17/2012
Witnessed by:	Date: 4/17/2012,
Rui Li	
Printed Name of Witness	
Witnessed by: Signature	Date: 4 11/2012
Avasarala Viswa Printed Name of Witness	inath
SECTION BELOW IS FOR USE ONLY	IF SIGNING IN PRESENCE OF A NOTARY
	Date:
Rahul Bhotika	
STATE OF ss.	
named Rahul Bhotika, to me personally ke	to me that he/she executed the same of his/her
Seal	
(Notary Public)	

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PATENT REEL: 047799 FRAME: 0098