504528245 08/31/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ANTJE SCHULTE	07/17/2017
REINHARD BOESE	08/13/2017
URSULA BOESE	08/13/2017

RECEIVING PARTY DATA

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City:	MUNICH
State/Country:	GERMANY
Postal Code:	80333

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	61589961
Application Number:	13741610

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	2012P01657US01
NAME OF SUBMITTER:	ELIZABETH PATLA
SIGNATURE:	/Elizabeth Patla/
DATE SIGNED:	08/31/2017

Total Attachments: 6

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ASSIGNMENT

For good and valuable consideration, I (We),

Antje Schulte on behalf of Jan Boese (deceased) as 3/4 heir, residing at Am Kohlberg 26-28, Obertrubach, 91286, DE, citizen of DE

Reinhard Boese on behalf of Jan Boese (deceased) as 1/8 heir, residing at Peter-Haupt-Str. 8, Würzburg, 97080, DE citizen of DE

Ursula Boese on behalf of Jan Boese (deceased) as 1/8 heir, residing at Peter-Haupt-Str. 8, Würzburg, 97080, DE, citizen of DE

hereafter individually or collectively referred to as "Assignor(s)";

Hereby, (I) acknowledge having previously assigned, sold and transferred to Siemens Aktiengesellschaft, a corporation organized and existing under the laws of GERMANY, having its principal place of business at Wittelsbacherplatz 2, 80333 München, hereinafter "Assignee", its successors, assigns and legal representatives, or to a predecessor of Assignee, pursuant to (A)(i) the laws of GERMANY or (ii) a Patent & Secrecy Agreement or similar legal document such as, without limitation, an employee agreement executed at the time of entering into the employment of, or executed as a condition of continuing employment with, the Assignee or a predecessor of the Assignee, the entire right, including any and all priority rights, title and interest, in and for the United States and all foreign countries, in and to any and all inventions or improvements which are disclosed in an invention disclosure and/or in the below-identified documents currently filed with this Assignment, already filed or granted for Letters Patent (in which case, any provision of the subject Assignment that is in conflict with or is in addition to any provision in the prior agreement(s) or assignment(s) then this Assignment shall govern, take precedence, and be of legal effect), or

(B)(i) to the extent such laws of GERMANY or such Patent & Secrecy Agreement or similar legal document failed or fails, in whole or part, to have assigned, sold or transferred the entire right (including priority rights), title and interest, in and for the United States and all foreign countries, in and to all inventions or improvements which are disclosed in the below-identified application(s) or pending application(s) or granted Letters Patent, or (ii) if no such agreement(s) exist assigning, selling or transferring any such right (including priority rights), title or interest; then for good and valuable consideration, Assignor(s) now and hereby, effective Nunc Pro Tunc on the filing date of the below identified patent application(s), pending patent application(s) or granted Letter Patent(s), assign, sell and transfer(s) to Assignee, its successors, assigns and legal representatives, the entire right, (including all priority rights), title and interest in and for the United States and all foreign countries, in and to any and all inventions and/or improvements which are disclosed in the following identified; patent application(s), pending patent application(s) or granted Letter Patent(s)

IDNR: 1930 / 21.05.2015

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Patent Application Title: Model Based Fusion of Pre-op CT and Intra-op Fluoroscopy. Bringing Motion-compensated Dynamic Patient-specific Models from CT to Fluoroscopy using TEE

Filing Date: 24 Jan 2012 Filing Number: 61/589,961

Internal Case Number(s): 2012P01657 US

Patent Application Title: Method and System for Model Based Fusion on Pre-Operative Computed Tomography and Intra-Operative Fluoroscopy Using

Transesophageal Echocardiography

Filing Date: 15 Jan 2013 Filing Number: 13/741,610

Internal Case Number(s): 2012P01657 US01

and in and to said application(s) or granted patents and all applications claiming priority to said application or granted patent, including, without limitation, and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of the inventions and/or improvements; and in and to all original and reissued patents which have been or shall be filed in the United States and all foreign countries on the inventions and/or improvements;

- (II) Agree that said Assignee may apply for and receive Letters Patent for said inventions and/or improvements in its own name; and that, when requested, without charge to but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions and/or improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and legal representatives, all facts known to the undersigned relating to said inventions and/or improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or legal representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and/or improvements and for vesting title to said inventions and or improvements and all applications for patents and all patents on said inventions and/or improvements, in said Assignee, its successors, assigns and legal representatives; and
- (III) Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Dr. Kichaela Grike Witness Signature Antje Schulte

DR HICHAELA GEOTE

Date

printed name

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Witness Sign	nature	Reinhard Boese
printed name		Date
Witness Sign	ature	Ursula Boese
printed name		Date
Companies R Siemens Aktie Signature(s):	epresentative(s) ngesellschaft iV Milsten	i.V. Jake
Name(s):	Milzarek	Lasko
Title:	Both Authorized Officers	
Date:	2 2 AUG 2017	

Page 1 of 3

ASSIGNMENT

For good and valuable consideration, I (We),

Antje Schulte on behalf of Jan Boese (deceased) as 3/4 heir, residing at Am Kohlberg 26-28, Obertrubach, 91286, DE, citizen of DE

Reinhard Boese on behalf of Jan Boese (deceased) as 1/8 heir, residing at Peter-Haupt-Str. 8, Würzburg, 97080, DE citizen of DE

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(B)(i) to the extent such laws of GERMANY or such Patent & Secrecy Agreement or similar legal document failed or fails, in whole or part, to have assigned, sold or transferred the entire right (including priority rights), title and interest, in and for the United States and all foreign countries, in and to all inventions or improvements which are disclosed in the below-identified application(s) or pending application(s) or granted Letters Patent, or (ii) if no such agreement(s) exist assigning, selling or transferring any such right (including priority rights), title or interest; then for good and valuable consideration, Assignor(s) now and hereby, effective Nunc Pro Tunc on the filing date of the below identified patent application(s), pending patent application(s) or granted Letter Patent(s), assign, sell and transfer(s) to Assignee, its successors, assigns and legal representatives, the entire right, (including all priority rights), title and interest in and for the United States and all foreign countries, in and to any and all inventions and/or improvements which are disclosed in the following identified; patent application(s), pending patent application(s) or granted Letter Patent(s)

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Filing Date: 15 Jan 2013 Filing Number: 13/741,610

Internal Case Number(s): 2012P01657 US01

and in and to said application(s) or granted patents and all applications claiming priority to said application or granted patent, including, without limitation, and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of the inventions and/or improvements; and in and to all original and reissued patents which have been or shall be filed in the United States and all foreign countries on the inventions and/or improvements;

- (II) Agree that said Assignee may apply for and receive Letters Patent for said inventions and/or improvements in its own name; and that, when requested, without charge to but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions and/or improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and legal representatives, all facts known to the undersigned relating to said inventions and/or improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or legal representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and/or improvements and for vesting title to said inventions and or improvements and all applications for patents and all patents on said inventions and/or improvements, in said Assignee, its successors, assigns and legal representatives; and
- (III) Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Witness Signature	Antje Schulte
printed name	Date

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	L LSUE enture M KOBCEK	Reinhard Boese 13. 8, 17 Date	
Witness Signal HANS printed name	M. KÖBLER	Ursula Boese 13.8.17 Date	~~
Companies Re Siemens Aktier Signature(s): Name(s): Title:	epresentative(s) Ingesellschaft Milzarek Both Authorized Officers 2 2 AUG 2017	Masko	

PATENT REEL: 043462 FRAME: 0084

RECORDED: 08/31/2017

Date: