

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT4818354

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DONG YANG	02/07/2018
TAO XIONG	02/08/2018
DAGUANG XU	01/25/2018
SHAOHUA KEVIN ZHOU	01/26/2018
MINGQING CHEN	01/26/2018
ZHOUBING XU	01/27/2018
JIN-HYEONG PARK	01/26/2018
DORIN COMANICIU	01/26/2018
RECEIVING PARTY DATA	
Name:	SIEMENS MEDICAL SOLUTIONS USA, INC.
Street Address:	40 LIBERTY BOULEVARD
City:	MALVERN
State/Country:	PENNSYLVANIA
Postal Code:	19355
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	15886873
Application Number:	62486641
CORRESPONDENCE DATA	
Fax Number:	
<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>	
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ATTORNEY DOCKET NUMBER:	2017P05096US01
NAME OF SUBMITTER:	ELIZABETH PATLA

SIGNATURE:	/Elizabeth Patla/
DATE SIGNED:	02/09/2018
Total Attachments: 7 source=2017P05096US_ASSIGNMENT_SMS#page1.tif source=2017P05096US_ASSIGNMENT_SMS#page2.tif source=2017P05096US_ASSIGNMENT_SMS#page3.tif source=2017P05096US_ASSIGNMENT_SMS#page4.tif source=2017P05096US_ASSIGNMENT_SMS#page5.tif source=2017P05096US_ASSIGNMENT_SMS#page6.tif source=2017P05096US_ASSIGNMENT_SMS#page7.tif	

ASSIGNMENT

For good and valuable consideration, I (We),

Dong Yang, residing at 57 Croyden Court, Somerset, NJ 08873, US, citizen of CN

Tao Xiong, residing at 2828 Damascus Ct. #C, Baltimore, MD 21209, US, citizen of CN

Daguang Xu, residing at 3 Bolton Circle, Princeton, NJ 08540, US, citizen of CN

Shaohua Kevin Zhou, residing at 94 Marion Drive, Plainsboro, NJ 08536, US, citizen of CN

Mingqing Chen, residing at 1213 Fox Run Drive, Plainsboro, NJ 08536, US, citizen of CN

Zhoubing Xu, residing at 4718 Quail Ridge Drive, Plainsboro, NJ 08536, US, citizen of CN

Jin-hyeong Park, residing at 78 Hoover Avenue, Princeton, NJ 08540, US, citizen of KR

Dorin Comaniciu, residing at 2 Stuart Lane West, Princeton Junction, NJ 08550, US, citizen of US

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

Hereby, (I) acknowledge having previously assigned, sold and transferred to **Siemens Medical Solutions USA, Inc.**, a corporation organized and existing under the laws of UNITED STATES OF AMERICA, having its principal place of business at 40 Liberty Blvd., Malvern, PA 19355, US, hereinafter "Assignee", its successors, assigns and legal representatives, or to a predecessor of Assignee, pursuant to (A)(i) the laws of UNITED STATES OF AMERICA 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 UNITED STATES OF AMERICA 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)

Patent Application Title: **Deep Image-to-Image Recurrent Network with Shape Basis for Automatic Vertebra Labeling in Large-Scale 3D CT Volumes**

Filing Date: February 2, 2018

Filing Number: 15/886,873

Internal Case Number(s): 2017P05096 US01

Patent Application Title: **Deep Image-to-Image Recurrent Network with Shape Basis for Automatic Vertebra Labeling in Large-Scale 3D CT Volumes**

Filing Date: 08 Mar 2017

Filing Number: 62/468,641

Internal Case Number(s): 2017P05096 US

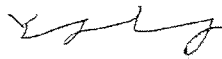
and in and to said application(s) or granted patents and all applications claiming priority to said application or granted patent, including, without limitation, and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed 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



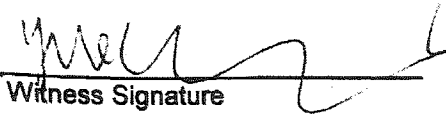
Dong Yang

Yan Chen

printed name

02/07/2018

Date


Witness Signature

Yuanbo Wang
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Tao Xiong
Tao Xiong

02/08/2018
Date

Witness Signature

printed name

Daguang Xu

Date

Witness Signature

printed name

Shaohua Kevin Zhou

Date

Witness Signature

printed name

Mingqing Chen

Date

Witness Signature

printed name

Zhoubing Xu

Date

Witness Signature

printed name

Jin-hyeong Park

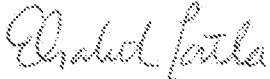
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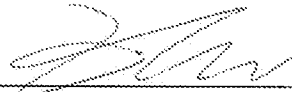
Witness Signature

Tao Xiong

printed name

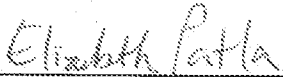
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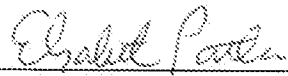
Daguang Xu

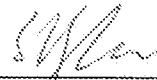


01/25/2018

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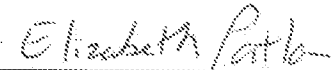
Date





Witness Signature

Shaohua Kevin Zhou



Jan 20, 2018

printed name

Date

Witness Signature

Mingqing Chen

printed name

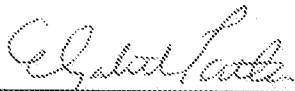
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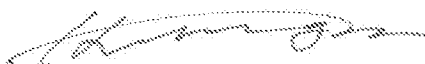
Witness Signature

Zhoubing Xu

printed name

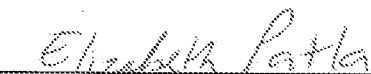
Date





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Jin-hyeong Park



1/26/2018

printed name

Date

Witness Signature

Shaohua Kevin Zhou

printed name

Date

Shanhui Sun

Mingqing Chen

Witness Signature

Mingqing Chen

Shanhui Sun

printed name

Date Jan 26, 2018

Witness Signature

Zhoubing Xu

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Date

Witness Signature

Jin-hyeong Park

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Date

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Dorin Comaniciu

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Title: Managing IP Counsel

Witness Signature

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Daguang Xu

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Date

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2/9/2018