

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
YUANKAI HUO	02/12/2019
SASA GRBIC	02/14/2019
JIN-HYEONG PARK	02/14/2019
ZHOUBING XU	02/14/2019
SHAOHUA KEVIN ZHOU	02/12/2019
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<b>City:</b>	MALVERN
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19355
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16272169
<b>Application Number:</b>	62632494
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	2018P03991US01
<b>NAME OF SUBMITTER:</b>	ELIZABETH PATLA
<b>SIGNATURE:</b>	/Elizabeth Patla/
<b>DATE SIGNED:</b>	02/14/2019

**Total Attachments: 3**

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**ASSIGNMENT**

For good and valuable consideration, I (We),

**Yuankai Huo**, residing at 810 Bellevue Road, #152, Nashville, TN 37221, US, citizen of CN

**Sasa Grbic**, residing at 1315 Ravens Crest Drive, Plainsboro, NJ 08536, US, citizen of HR

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

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

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, 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**

**REEL: 048333 FRAME: 0406**

Patent Application Title: **SEGMENTATION, LANDMARK DETECTION AND VIEW CLASSIFICATION USING MULTI-TASK LEARNING**

Filing Date: 02/11/2019

Filing Number: 16/272,169

Internal Case Number(s): 2018P03991 US01

Patent Application Title: **Simultaneous Segmentation, Landmark Detection and View Classification for Ultrasound Images using Multi-task Learning with Global Convolutional Kernels and Shape Constraint**

Filing Date: 20 Feb 2018

Filing Number: 62/632,494

Internal Case Number(s): 2018P03991 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

Ge Liu

printed name



Yuankai Huo

02/12/2019

Date

Elizabeth Patla

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Sasa Grbic

Sasa Grbic

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Name(s):

Michele L. Conover

Title:

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Date:

2/14/2019