

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
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BOHUA ZHANG	10/15/2020
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17068343
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NAME OF SUBMITTER:	HEATHER C. GORMAN
SIGNATURE:	/Heather C. Gorman/
DATE SIGNED:	01/11/2021
Total Attachments: 4	
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**ASSIGNMENT
OF UTILITY PATENT APPLICATION**

WHEREAS, the following parties:

<u>Name</u>	<u>Address</u>
Xiaoning Jiang	1021 Main Campus Drive, 2nd Floor, Raleigh, NC 27606
Bohua Zhang	1021 Main Campus Drive, 2nd Floor, Raleigh, NC 27606

hereinafter referred to as ASSIGNOR, has/have invented certain new and useful improvements ("invention(s)") as described and set forth in the below-identified utility application for United States Letters Patent entitled:

Systems And Methods For Ultrasound Induced Thrombolysis With Magnetic Microbubbles, Optional Nanodroplets, And A Rotational Magnetic Field

which was:

- ☐ executed on even date herewith,
- ☒ filed with the United States Patent and Trademark Office (USPTO) on October 12, 2020, and assigned Serial No. 17/068,343, and
- ☒ further described in U.S. Provisional application entitled "Systems And Methods For Ultrasound Induced Thrombolysis With Magnetic Microbubbles And A Rotational Magnetic Field", filed with the USPTO on October 11, 2019, and assigned Serial No. 62/913,944.

Note: Only one of the first two checkboxes will be checked. The third checkbox will be checked, only if appropriate.

WHEREAS, **North Carolina State University**, having a place of business at Office of Research Commercialization, 1021 Main Campus Drive, 2nd Floor, Raleigh, NC 27606, hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S interest in and to said invention(s), said utility application, said provisional application, and any U.S. and foreign patents which are related to the same.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by ASSIGNOR, ASSIGNOR has sold, assigned and transferred and does hereby sell, assign and transfer unto ASSIGNEE, and ASSIGNEE'S successors and assigns, (a) the entire right, title and interest, for the United States of America, in and to said invention(s), said utility application, and said Provisional application and all the rights and privileges in any application and under any and all patents that may be granted in the U.S. for said inventions, including all corresponding provisional, continuation, continuation-in-part, divisional, reissue, and reexamination applications; and (b) the entire right, title and interest in and to said invention(s), said utility application, and said provisional application for all countries foreign to the U.S., including all rights of priority arising from them, and all the rights and privileges under any and all forms of protection, including patents, that may be granted in said countries foreign to the U.S. for them.

ASSIGNOR authorizes ASSIGNEE to make application for such protection in its own name and maintain such protection in any and all countries foreign to the U.S., and to invoke and claim for any application for patent or other form of protection for said Inventions, without further authorization from ASSIGNOR, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

ASSIGNOR hereby consents that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of ASSIGNEE to apply for patent or other form of protection for said Inventions, said utility application, or said provisional application and to claim the aforesaid benefit of the right of priority.

ASSIGNOR requests that any and all patents for said inventions be issued to ASSIGNEE in the U.S. and to ASSIGNEE in all countries foreign to the U.S., or to such nominee as ASSIGNEE may designate.

ASSIGNOR covenants and agrees that, when requested, ASSIGNOR shall, without charge to ASSIGNEE but at ASSIGNEE'S expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient in connection with the patent applications, patents, or other forms of protection of said invention(s), and for the defense and protection thereof if challenged in the court of law.

ASSIGNOR authorizes ASSIGNEE or its agents to insert, on ASSIGNOR's behalf, the filing date and/or serial number above pertaining to the utility application and/or the provisional application, if not known as of the date of execution of this document.

Docket No. 221404-1640
Page 3 of 4
(Patent Assignment)

Xiaoning Jiang
Xiaoning Jiang

10/13/20
Date

Witness Signature
Witness Signature

10/13/20
Date

Zhuo Xing
Print Witness Name

Bohua Zhang
Bohua Zhang

Oct. 15 2020

Date

Hao Pang
Witness Signature

Oct. 15 2020

Date

Hao Pang Hao Pang
Print Witness Name