

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
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YANGBO XIE	09/11/2017
STEVEN CUMMER	09/11/2017
RECEIVING PARTY DATA	
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Postal Code:	27705
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16327019
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NAME OF SUBMITTER:	ANDREW J. PAPROCKI
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DATE SIGNED:	02/21/2019
Total Attachments: 2	
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ASSIGNMENT

Pursuant to our obligation to Duke University (hereinafter referred to as "Assignee"), a North Carolina non-profit institution having its principal place of business at:

2812 Erwin Road, Suite 306
Durham, NC 27705

and for other valuable and sufficient consideration, receipt whereof is hereby acknowledged, we:

Yangbo Xie
c/o Duke University
2812 Erwin Road, Suite 306
Durham, NC 27705

Steven Cummer
c/o Duke University
2812 Erwin Road, Suite 306
Durham, NC 27705

confirm our obligation to and hereby sell, assign and convey, unto Assignee, its successors and assigns, our entire right, title and interest

(1) in and to inventions described in a patent application titled HOLOGRAPHIC ACOUSTIC IMAGING SYSTEMS AND DEVICES BASED ON A DYNAMIC APERTURE AND METHODS OF USE the specification of which was filed with our authority on August 24, 2017 as International Patent Application No. PCT/US2017/048419 (Atty. File No. 028193-9272-WO01) (hereinafter the "PCT application") which application claims the benefit of United States Provisional Patent Application No. 62/379,301 filed on August 25, 2016 (hereinafter the "U.S. provisional patent application");

(2) in and to the PCT application and the U.S. provisional patent application, in and to all other U.S. patent applications (including PCT national phase, divisional, continuation, continuation-in-part, §111(b) provisional, §111(a), and reissue applications) based upon said inventions or claiming the benefit of the PCT application, or the U.S. provisional patent application, and in and to the patent or patents to be granted thereon, to the full end of the term or terms for which said patent or patents may be granted;

(3) in and to all patent applications on said invention now or hereafter filed in countries foreign to the United States of America, including foreign applications entering the national phase of the PCT application, and in and to any and all patents granted on said applications to the full end of the terms for which said patents may be granted; and

(4) under the International Convention in respect to the PCT application and the U.S. provisional patent application.

We agree that any patent applications of any foreign countries which may be filed shall be filed in the name of Assignee with a claim to priority based on the PCT application and the U.S. provisional patent application.

We hereby agree that we will, upon demand of Assignee, its successors or assigns, and without further consideration to us, execute any and all papers that may be necessary, or

deemed by Assignee, its successors or assigns, to be necessary, to a complete fulfillment of the intent and purposes of this Assignment, it being understood that any expense incident to the execution of such papers shall be paid by Assignee, its successors and assigns, and not by us.

The Commissioner of Patents and Trademarks of the United States is hereby authorized and requested to issue said patent or patents to Assignee.

9/11/2017
Date

9/11/2017
Witness Date

9/11/2017
Date

9/11/2017
Witness Date

12 September 2017
Date

9/12/2017
Witness Date

Yangbo Xie
Yangbo Xie

Fanchao Lyu
Witness Signature
Fanchao Lyu
Witness Printed Name

[Signature]
Steven Cumber

Fanchao Lyu
Witness Signature
Fanchao Lyu
Witness Printed Name

DUKE UNIVERSITY

[Signature]
Signature

Printed Name: ERIC F. WALNER

Title: Associate Director - Legal

KATRINA HOLLAND
Witness Signature

KATRINA HOLLAND
Witness Printed Name