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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

Kate E. Malachowski
David H. Gracias

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

Name: Johns Hopkins University

Internal Address: The State of Maryland

Street Address: 3400 N. Charles Street

City: Baltimore

State: MD

Country: USA Zip: 21218

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) 1/11/2013, 1/15/2013

- Assignment Merger
 Security Agreement Change of Name
 Joint Research Agreement
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other _____

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

14/314,875

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:

Name: U.S. Army Research Laboratory

Internal Address: Attn: RDRL-LOC-I/Alan I. Kalb

Street Address: 2800 Powder Mill Road

City: Adelphi

State: Maryland Zip: 20783

Phone Number: 301-394-1769

Fax Number: 301-394-3972

Email Address: nadine.l.loman.civ@mail.mil

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00


- Authorized to be charged to deposit account
 Enclosed
 None required (government interest not affecting title)

8. Payment Information

Deposit Account Number 19-2201

Authorized User Name Alan I. Kalb

9. Signature:


Signature

7/2/14
Date

Alan I. Kalb, 52,486

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

5

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

CH \$40.00 192201 14314875

Tina Preston

From: Kate Malachowski [kate.laflin@gmail.com]
Sent: Friday, January 11, 2013 2:24 PM
To: Tina Preston
Subject: Re: Signature Needed - New Invention Disclosure (JHU Reference C12272)

On Thu, Jan 10, 2013 at 3:08 PM, Tina Preston <tpreston26@jhmi.edu> wrote:

Dear Inventors,

Thank you for submitting your invention disclosure entitled "**Wavelength-specific Optical Actuation Apparatus for a Micromechanical Actuator Device**" to our office. It has been assigned JHU reference #C12272. We do not have all of the necessary signatures on this disclosure, and as a result, are requesting your assistance. **We need for the following inventors to each respond to this email with a signature typed in the box below:**

- Kate Elizabeth Laflin Malachowski
- David Gracias

SIGNATURE:

Kate Malachowski

Kate Malachowski

JHU INVENTOR CERTIFICATION and ASSIGNMENT

This section is completed by those JHU personnel subject to The Johns Hopkins University Intellectual Property Policy. Students may or may not be subject.

- I/we, the Inventors, hereby certify that the information set forth in this Invention Disclosure is true and complete to the best of my/our knowledge.
- I/we, the Inventors, hereby certify that I/we will promptly advise JHTT of any commercial interest regarding the Invention described herein.
- I/we, the Inventor(s), subject to The Johns Hopkins University Intellectual Property Policy and not under an obligation to assign intellectual property rights to another party, hereby affirm that in consideration for The Johns Hopkins University's evaluation of commercial potential and a share of income which I/we may receive upon commercialization of my/our Invention, on the

date of my/our signature(s) as indicated below do hereby assign and transfer my/our entire right, title and interest in and to the Invention described herein unto The Johns Hopkins University, its successors, legal representatives and assigns.

I hereby agree and affix my typewritten signature with the intent to sign this Invention disclosure form and to convey title to the described intellectual property.

Please reply to this email and type your full name in the signature block. This reply will serve as your assignment signature. Please feel free to contact me if you have any questions or concerns.

Sincerely,

Tina M. Preston

Technology Transfer Specialist

Johns Hopkins Technology Transfer

100 N. Charles Street, 5th Floor

Baltimore, MD 21201

410-516-4561

410-516-4411 (f)

tpreston26@jhmi.edu

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Tina Preston

From: David Gracias [dgracias@jhu.edu]
Sent: Tuesday, January 15, 2013 11:27 AM
To: Tina Preston
Subject: RE: Signature Needed - New Invention Disclosure (JHU Reference C12272)

Hi Tina,

Signature attached,

Regards,

David H. Gracias, Ph.D.

Associate Professor, Departments of Chemical and Biomolecular Engineering, Chemistry and the Institute for Nanobiotechnology,
The Johns Hopkins University, 3400 N Charles Street, 125 Maryland Hall, Baltimore, MD 21218, USA
Phone: 4105165284; Web: <http://www.jhu.edu/chembe/gracias/>

From: Tina Preston [mailto:tpreston26@jhmi.edu]
Sent: Thursday, January 10, 2013 3:09 PM
To: Kate Malachowski; David Gracias
Cc: Elaine Spector; Ami Gadhia
Subject: Signature Needed - New Invention Disclosure (JHU Reference C12272)
Importance: High

Dear Inventors,

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