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PATENTS ONLY

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

1. Name of conveying party(ies):John Ramunas
Juan G. Santiago
David P Fenning
Viktor ShkolnikovAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**2. Name and address of receiving party(ies):**

Name: The Board of Trustees of the Leland Stanford Junior University

Street address: 1705 El Camino Real

City: Palo Alto

State: CA

Zip: 94306-1106

Country: USA

Additional name(s) and address(es) attached? ☐ Yes ☒ No**3. Nature of conveyance/Execution Date(s):**☒ Assignment☐ Security Agreement☐ Merger☐ Change of Name☐ Joint Research Agreement☐ Government Interest Assignment☐ Executive Order 9424m Confirmatory License☐ Other

Execution Date(s): 12/16,17,18/2008, 1/5/2009

4. Application or patent number(s):A. Patent Application No.(s)
12/290650

B. Patent No.(s)

C. Agent Ref No.(s)
S07-186/US☐ This document is being filed together with a new application.Additional numbers attached? ☐ Yes ☒ No**5. Name and address to whom correspondence concerning document should be mailed:**

Name: Lumen Patent Firm

Street address: 2345 Yale Street, Second Floor

City: Palo Alto

State: CA

Zip: 94306

Country: USA

Phone No.: 650-424-0100

Fax No.: 650-424-0141

Email: admin@lumen.com

6. Total number of applications and patents involved: 1**7. Total fee (37 CFR 1.21(h) & 3.41): \$40**☒ Authorized to be charged by credit card**8. Payment information:**

a. Credit Card Last 4 Numbers: 9737

Credit Card Expiration Date: 10/2009

9. Signature:

Signature / Robert Lodenkamper / Reg.No. 55,399

Printed Name

Robert Lodenkamper

Date

1/12/09

Total number of pages including cover sheet,
attachments and documents: _____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, VA 22313-1450.

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PATENT
REEL: 022147 FRAME: 0454

ASSIGNMENT

WHEREAS, I/WE:

John Ramunas, a citizen of Canada, residing at 235 Ayrshire Farm Lane #205A, Stanford, CA 94305, USA

Juan G. Santiago, a citizen of USA, residing at 714 Alvarado Road, Stanford, CA 94305, USA

David P Fenning, a citizen of USA, residing at 27681 Horseshoe Bend, San Juan Capistrano, CA ⁹²⁶⁷⁵~~92676~~, Drf USA

Viktor Shkolnikov, a citizen of USA, residing at 10228 Oklahoma Ave., Unit C, Chatsworth, CA 91311, USA

1) For valuable consideration, the receipt and adequacy of which are hereby acknowledged, I/we, the above-named Assignor(s), each sell and assign to The Board of Trustees of the Leland Stanford Junior University, hereinafter Assignee, the entire right, title and interest in and to the invention or inventions as described in US Patent Application, 12/290650, entitled Peristaltic Micropump with Constrictions at Fixed Locations filed on 10/31/2008 and naming Assignor(s) as inventor(s), and to any and all applications for patent and patents in any and all countries relating to said invention(s), including all divisions, continuations, reissues and extensions thereof, and including all domestic and foreign rights of priority resulting from the filing of said US patent application.

2) I/we hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment, and that at the time of execution and delivery of this assignment, I/we are the sole lawful owner(s) of the entire right, title and interest in and to said invention(s).

3) I/we hereby agree that Assignee may apply for foreign patents relating to said invention(s) and irrevocably authorize Assignee and grant Assignee the sole right to do so.

4) I/we agree that on request and without further consideration, but at the expense of Assignee, I/we will sign all lawful papers, make all rightful oaths, and testify in any legal proceedings relating to said invention(s), and generally aid Assignee, or its successors, assigns, or nominees, to obtain and enforce proper patent protection for said invention(s) in any and all countries.

5) I/we authorize and request any official whose duty it is to issue patents to issue any patent on said invention(s) or resulting therefrom to Assignee, or its successors, assigns, or nominees.

Agent Reference: S07-186/US

Assignment PID: 14035

Inventor: **John Ramunas**

Signature: *John Ramunas*

Date: Dec. 17, 2008

Inventor: **Juan G. Santiago**

Signature: _____

Date: _____

Inventor: **David P Fenning**

Signature: _____

Date: _____

Inventor: **Viktor Shkolnikov**

Signature: _____

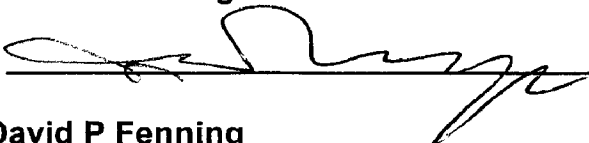
Date: _____

Inventor: **John Ramunas**

Signature: _____

Date: _____

Inventor: **Juan G. Santiago**

Signature:  _____

Date: 12/18/08

Inventor: **David P Fenning**

Signature: _____

Date: _____

Inventor: **Viktor Shkolnikov**

Signature: _____

Date: _____

Agent Reference: S07-186/US

Assignment PID: 14035

Inventor: John Ramunas

Signature: _____

Date: _____

Inventor: Juan G. Santiago

Signature: _____

Date: _____

Inventor: David P Fenning

Signature: David P Fenning

Date: 1/5/09

Inventor: Viktor Shkolnikov

Signature: _____

Date: _____

Agent Reference: S07-186/US

Assignment PID: 14035

Inventor: **John Ramunas**

Signature: _____

Date: _____

Inventor: **Juan G. Santiago**

Signature: _____

Date: _____

Inventor: **David P Fenning**

Signature: _____

Date: _____

Inventor: **Viktor Shkolnikov**

Signature: *V Shkolnikov*

Date: 12/16/08

Agent Reference: S07-186/US

Assignment PID: 14035