

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4108064

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<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MANN MEDICAL RESEARCH ORGANIZATION	10/13/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE ALFRED E. MANN INSTITUTE FOR BIOMEDICAL ENGINEERING AT THE UNIVERSITY OF SOUTHERN CALIFORNIA
<b>Street Address:</b>	1042 DOWNEY WAY, DRB 101
<b>City:</b>	LOS ANGELES
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	90089
<b>PROPERTY NUMBERS Total: 10</b>	
<b>Property Type</b>	<b>Number</b>
Patent Number:	6658297
Patent Number:	6658301
Patent Number:	6864755
Patent Number:	6889087
Patent Number:	6895279
Patent Number:	6937904
Patent Number:	7005935
Patent Number:	7277749
Patent Number:	7555347
Patent Number:	7970477
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(310)277-4730
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	310 788 1569
<b>Email:</b>	uspto33401@mwe.com
<b>Correspondent Name:</b>	MARC E. BROWN
<b>Address Line 1:</b>	MCDERMOTT WILL & EMERY LLP
<b>Address Line 2:</b>	2049 CENTURY PARK EAST, SUITE 3800
<b>Address Line 4:</b>	LOS ANGELES, CALIFORNIA 90067

<b>ATTORNEY DOCKET NUMBER:</b>	064693-0010
<b>NAME OF SUBMITTER:</b>	MARC E. BROWN
<b>SIGNATURE:</b>	/Marc E. Brown/
<b>DATE SIGNED:</b>	10/21/2016
<b>Total Attachments: 3</b> source=MMRO_AMIAssignment#page1.tif source=MMRO_AMIAssignment#page2.tif source=MMRO_AMIAssignment#page3.tif	

EXHIBIT A

**ASSIGNMENT OF PATENTS**

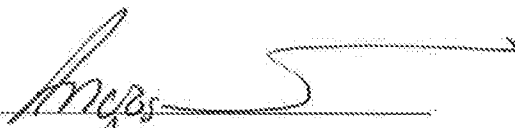
THE MANN MEDICAL RESEARCH ORGANIZATION ("ASSIGNOR"), a California corporation having a principal place of business at 12744 San Fernando Road, Sylmar, CA 91342, hereby irrevocably assigns, transfers, and conveys to THE ALFRED E. MANN INSTITUTE FOR BIOMEDICAL ENGINEERING AT THE UNIVERSITY OF SOUTHERN CALIFORNIA ("ASSIGNEE"), a Delaware corporation having a principal place of business at 1042 Downey Way, DRB 101, Los Angeles, CA 90089, pursuant to the Patent Transfer Agreement dated as of September 21, 2016, by and between ASSIGNOR and ASSIGNEE, all of ASSIGNOR's right, title, and interest in and to the patents and patent applications set forth on **Schedule 1**, attached hereto and incorporated by this reference herein, together with all claims and causes of action with respect to any of the foregoing, including without limitation all rights to and claims for damages, restitution, and injunctive and other legal and equitable relief for past, present, and future infringement, misappropriation, violation, breach, or default, and all other rights, privileges, and protections of any kind whatsoever of ASSIGNOR accruing under any of the foregoing provided by any applicable law, treaty, or other international convention.

ASSIGNOR hereby authorizes the Commissioner for Patents in the United States Patent and Trademark Office and the officials of corresponding entities or agencies in any applicable jurisdictions to record and register this Assignment of Patents upon request by ASSIGNEE.

In WITNESS WHEREOF, the undersigned has caused this Assignment of Patents to be executed as of the date first written above.

**ASSIGNOR:**

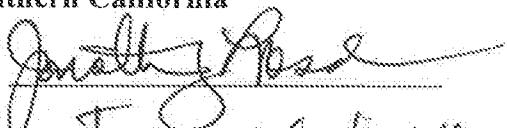
**Mann Medical Research Organization**

By:   
Name: Anoshah Bastani  
Title: CFO  
Date: 10/13/16

**Declaration of Acceptance:** ASSIGNEE agrees to the aforementioned assignment and applies for recording of the assignment in the register of the Patent Office.

**AGREED AND ACCEPTED:**

The Alfred E. Mann Institute for Biomedical Engineering at the University of Southern California

By:   
Name: Jonathan G. Casoff  
Title: Executive Director  
Date: Oct. 21, 2016

**SCHEDULE I**  
**SUBJECT PATENT SCHEDULE**

Patent Number (Application Number)	Issue Date (Filing Date)	Title (MMRO Identifier)	Inventors	Country/Patent Office
U.S. 6,658,297 (09/949,424)	2003-12-02 (2001-09-07)	Method and apparatus for control of bowel function (M13-USA)	Gerald E. Loeb	US
U.S. 6,658,301 (09/952,950)	2003-12-02 (2001-09-13)	Method and apparatus for conditioning muscles during sleep (M11-USA)	Gerald E. Loeb; Frances J.R. Richmond	US
U.S. 6,864,755 (09/973,486)	2005-03-08 (2001-10-05)	Switched reactance modulated E- class oscillator design (M15-USA)	William Henry Moore	US
U.S. 6,889,087 (10/180,882)	2005-05-03 (2002-06-26)	Switched reactance modulated E- class oscillator design (M16-USA)	William Henry Moore (no assignment recorded from inventor to AMI- USC; only from AMI- USC to MMRO)	US
U.S. 6,895,279 (09/953,425)	2005-05-17 (2001-09-14)	Method and apparatus to treat disorders of gastrointestinal peristalsis (M12-USA)	Gerald E. Loeb; Frances J.R. Richmond	US
U.S. 6,937,904 (10/022,562)	2005-08-30 (2001-12-12)	System and method for providing recovery from muscle denervation (M14-USA)	Frances J.R. Richmond; Gerald E. Loeb; Tessa Gordon	US
U.S. 7,005,935 (10/805,043)	2006-02-28 (2004-03-19)	Switched reactance modulated E- class oscillator (M20-USA)	William Henry Moore	US

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U.S. 7,277,749 (10/758,366)	2007-10-02 (2004-01-15)	Treatments for snoring using injectable neuromuscular stimulators (M19-USA)	David C. Gordon; Gerald E. Loeb	US
U.S. 7,555,347 (11/103,197)	2009-06-30 (2005-04-11)	Identification of target site for implantation of a microstimulator (M22-USA)	Gerald E. Loeb	US
U.S. 7,970,477 (11/679,109)	2011-06-28 (2007-02-26)	Method and apparatus for detecting object orientation and position (M24-USA)	Gerald E. Loeb; Wei Tan	US
EP 1 333 884 (01970859.3)	2010-12-08 (2003-04-11)	Apparatus for conditioning muscles during sleep (M17-EP)	Gerald E. Loeb; Frances J.R. Richmond	EP
DE 60143621 (01970859.3)	2010-12-08 (2003-04-11)	Apparatus for conditioning muscles during sleep (M17-DE)	Gerald E. Loeb; Frances J.R. Richmond	DE (annuity late)
EP 1 333 884 (01970859.3)	2010-12-08 (2003-04-11)	Apparatus for conditioning muscles during sleep (M17-GB)	Gerald E. Loeb; Frances J.R. Richmond	UK/GB (annuity late)
EP 1 326 675 (01966617.1)	2011-04-13 (2003-04-07)	Apparatus for control of bowel function (M18-EP)	Gerald E. Loeb; Frances J.R. Richmond	EP
DE 60144429 (01966617.1)	2011-04-13 (2003-04-07)	Apparatus for control of bowel function (M18-DE)	Gerald E. Loeb; Frances J.R. Richmond	DE (annuity late)
EP 1 326 675 (01966617.1)	2011-04-13 (2003-04-07)	Apparatus for control of bowel function (M18-GB)	Gerald E. Loeb; Frances J.R. Richmond	UK/GB (annuity late)