

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5754777

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	PULSE HEALTH LLC	10/03/2019
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	ANNA-MARIA AND STEPHEN KELLEN FOUNDATION, INC.	
<b>Street Address:</b>	1345 AVENUE OF THE AMERICAS	
<b>Internal Address:</b>	47TH FLOOR	
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<b>State/Country:</b>	NEW YORK	
<b>Postal Code:</b>	10105	
<b>Name:</b>	CHRISTOPHER L. MARSH, AS TRUSTEE OF THE CHRISTOPHER L. MARSH REVOCABLE TRUST U/A/D, DATED SEPTEMBER 1, 2015	
<b>Street Address:</b>	17367 LAKE HAVEN DRIVE	
<b>City:</b>	LAKE OSWEGO	
<b>State/Country:</b>	OREGON	
<b>Postal Code:</b>	97035	
<b>Name:</b>	MARK WEINSTEIN, TRUSTEE OF THE WEINSTEIN FAMILY TRUST	
<b>Street Address:</b>	1640 5TH STREET	
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<b>Name:</b>	ROBERT DEUTSCHMAN, TRUSTEE OF THE DEUTSCHMAN FAMILY REVOCABLE TRUST	
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<b>Internal Address:</b>	SUITE 1200	
<b>City:</b>	LOS ANGELES	
<b>State/Country:</b>	CALIFORNIA	
<b>Postal Code:</b>	90024	
<b>PROPERTY NUMBERS Total: 30</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	62018448	
<b>PATENT</b>		

Property Type	Number
Application Number:	62149988
Application Number:	62156441
Application Number:	62296947
Application Number:	15436103
Patent Number:	9404836
Patent Number:	D773055
Patent Number:	9546930
Patent Number:	9494495
Patent Number:	9594005
Application Number:	15224251
Application Number:	15351406
Application Number:	62435058
PCT Number:	US1538389
PCT Number:	US1538391
PCT Number:	US1538394
PCT Number:	US1718399
Patent Number:	9797815
Patent Number:	D795723
Patent Number:	D797942
Patent Number:	10197477
Application Number:	16266874
Application Number:	62539872
Application Number:	16050459
Application Number:	15844288
Application Number:	16403309
PCT Number:	US1766828
PCT Number:	US1844583
PCT Number:	US1538386
PCT Number:	US1538392

#### CORRESPONDENCE DATA

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*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.*

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**PATENT**

**REEL: 050626 FRAME: 0819**

<b>ATTORNEY DOCKET NUMBER:</b>	38666/11
<b>NAME OF SUBMITTER:</b>	PAUL S ANGELLO
<b>SIGNATURE:</b>	/Paul S. Angello/
<b>DATE SIGNED:</b>	10/04/2019
<b>Total Attachments: 7</b> source=Amendment No. 5 to Security Interest in Patents and Trademarks(103828819.1)#page1.tif source=Amendment No. 5 to Security Interest in Patents and Trademarks(103828819.1)#page2.tif source=Amendment No. 5 to Security Interest in Patents and Trademarks(103828819.1)#page3.tif source=Amendment No. 5 to Security Interest in Patents and Trademarks(103828819.1)#page4.tif source=Amendment No. 5 to Security Interest in Patents and Trademarks(103828819.1)#page5.tif source=Amendment No. 5 to Security Interest in Patents and Trademarks(103828819.1)#page6.tif source=Amendment No. 5 to Security Interest in Patents and Trademarks(103828819.1)#page7.tif	

**AMENDMENT NO. 5 TO  
SECURITY INTEREST  
IN PATENTS AND TRADEMARKS**

THIS AMENDMENT NO. 5 TO SECURITY INTEREST IN PATENTS AND TRADEMARKS (this “**Amendment**”), effective as of October 3, 2019, amends the Security Interest in Patents and Trademarks dated as of November 19, 2015, made by Pulse Health LLC, an Oregon limited liability company (the “**Grantor**”), and recorded with the United States Patent and Trademark Office on November 25, 2015, as amended by an Amendment No. 1 to Security Interest in Patents and Trademarks dated as of November 22, 2016, and recorded with the United States Patent and Trademark Office on November 28, 2016; and as amended by an Amendment No. 2 to Security Interest in Patents and Trademarks dated as of March 17, 2017, and recorded with the United States Patent and Trademark Office on March 17, 2017; and as amended by an Amendment No. 3 to Security Interest in Patents and Trademarks dated as of June 1, 2017, and recorded with the United States Patent and Trademark Office on June 5, 2017; and as amended by an Amendment No. 4 to Security Interest in Patents and Trademarks dated as of September 8, 2017, and recorded with the United States Patent and Trademark Office on September 11, 2017 (as amended, the “**Security Interest**”). Capitalized terms used and not otherwise defined herein have the meanings given to such terms in the Security Interest.

FOR GOOD AND VALUABLE CONSIDERATION, receipt and sufficiency of which are hereby acknowledged, the Grantor hereby agrees as follows:

1. Exhibit A to the Security Interest is hereby amended by adding the persons and legal entities listed on Exhibit A attached hereto as Grantees. For the avoidance of doubt, the Grantor hereby grants to such persons and legal entities a security interest in (i) all of the Grantor’s right, title and interest in and to the Marks; (ii) all of the Grantor’s right, title and interest in and to the Patents; (iii) all “proceeds” (as such term is defined in the Agreement) of the Marks and Patents; (iv) the goodwill of the businesses with which the Marks are associated; and (v) all causes of action arising prior to or after the date hereof for infringement of any of the Marks and Patents or unfair competition regarding the same.

2. Schedule A to the Security Interest is hereby amended and restated to read in its entirety as Schedule A attached hereto.

3. Schedule B to the Security Interest is hereby amended and restated to read in its entirety as Schedule B attached hereto.

4. All references in the Security Interest to “Security Interest,” “herein,” “hereof,” or terms of like import referring to the Security Interest or any portion thereof are hereby amended to refer to the Security Interest as amended by this Amendment.

5. Except as and to the extent expressly modified by this Amendment, the Security Interest shall remain in full force and effect in all respects.

IN WITNESS WHEREOF, the undersigned has executed this Amendment as of the date first set forth above.

**Pulse Health LLC**

A handwritten signature in black ink, appearing to read "Chris Marsh", written over a horizontal line.

By: \_\_\_\_\_

Name: Christopher L. Marsh  
Title: Director

**Exhibit A to Amendment No. 5 to**  
**Security Interest in Patents and Trademarks**

**Additional Grantees**

1. Anna-Maria and Stephen Kellen Foundation, Inc.
2. Christopher L. Marsh, as Trustee of the Christopher L. Marsh Revocable Trust u/a/d September 1, 2015
3. Mark Weinstein, Trustee of the Weinstein Family Trust
4. Robert Deutschman, Trustee of the Deutschman Family Revocable Trust

SCHEDULE A

LIST OF TRADEMARKS

<u>MARK</u>	<u>APP./REG. NOS.</u>	<u>FILING/REG. DATES</u>
REVELAR	77/669,468	2/12/2009
	3,931,641	3/15/2011
PULSEHEALTH	86/062,109	9/11/2013
	4,532,867	5/20/2014

SCHEDULE B

LIST OF PATENTS AND PATENT APPLICATIONS

<b>Filing Location</b>	<b>Title</b>	<b>App. No./Patent No.</b>	<b>Filing Date/Grant Date</b>	<b>Status</b>
U.S.	BREATH ANALYSIS DEVICE	62/018,448	June 27, 2014	Expired
U.S.	BREATH ANALYSIS DEVICE	62/149,988	April 20, 2015	Expired
U.S.	PHENYL DIAMINE COMPOUNDS AS NOVEL REPORTERS FOR ALDEHYDE DETECTION AND QUANTITATION	62/156,441	May 4, 2015	Expired
U.S.	BREATH ANALYSIS SYSTEM	62/296,947	Feb 18, 2016	Expired
U.S.	METHODS, SYSTEMS, AND COMPOSITIONS FOR DETECTION OF ALDEHYDES	15/436,103	Feb 17, 2017	Pending
U.S.	BREATH ANALYSIS SYSTEM	14/754,534 9,797,815	June 29, 2015 Oct 24, 2017	Issued
U.S.	METHOD AND DEVICE FOR CARBONYL DETECTION AND QUANTITATION	14/754,567 9,404,836	June 29, 2015 August 2, 2016	Issued
U.S.	ANALYSIS DEVICE	29/531,769 D795723	June 29, 2015 August 29, 2017	Issued
U.S.	BREATH CARTRIDGE	29/531,770 D797,942	June 29, 2015 Sept 19, 2017	Issued
U.S.	BREATH CARTRIDGE AND HANDLE	29/531,771 D773,055	June 29, 2015 Nov 29, 2016	Issued



<b>Filing Location</b>	<b>Title</b>	<b>App. No./Patent No.</b>	<b>Filing Date/Grant Date</b>	<b>Status</b>
U.S.	ANALYSIS CARTRIDGE AND METHOD FOR USING SAME	14/754,594 9,546,930	June 29, 2015 Jan 17, 2017	Issued
U.S.	BREATH ANALYSIS SYSTEM	14/754,608 9,494,495	June 29, 2015 Nov 15, 2016	Issued
U.S.	FLUORESCENCE DETECTION ASSEMBLY	14/754,618 9,594,005	June 29, 2015 March 14, 2017	Issued
U.S.	ANALYSIS CARTRIDGE	15/224,251	July 29, 2016	Pending
U.S.	BREATH ANALYSIS SYSTEM	15/351,406	Nov 14, 2016	Allowed
U.S.	ANALYSIS CARTRIDGE AND METHOD FOR USING SAME	15/408,276 10,197,477	Jan 17, 2017 Feb 5, 2019	Issued
U.S.	ANALYSIS CARTRIDGE AND METHOD FOR USING SAME	16/266,874	Feb 4, 2019	Pending
U.S.	ALDEHYDE TESTING DEVICE AND METHOD OF USE	62/435,058	Dec 15, 2016	Expired
U.S.	METHODS AND SYSTEMS FOR ALDEHYDE DETECTION	62/539,872	August 1, 2017	Expired
U.S.	METHODS AND SYSTEMS FOR ALDEHYDE DETECTION	16/050,459	July 31, 2018	Pending
U.S.	ALDEHYDE ANALYSIS SYSTEM AND METHOD OF USE	15/844,288	Dec 15, 2017	Pending

<b>Filing Location</b>	<b>Title</b>	<b>App. No./Patent No.</b>	<b>Filing Date/Grant Date</b>	<b>Status</b>
U.S.	BREATH CAPTURE AND ANALYSIS SYSTEM	16/403,309	May 3, 2019	Pending
PCT	ALDEHYDE ANALYSIS SYSTEM AND METHOD OF USE	PCT/US17/66828	Dec 15, 2017	Inactive
PCT	METHODS AND SYSTEMS FOR ALDEHYDE DETECTION	PCT/US18/44583	July 31, 2018	Pending
PCT	BREATH ANALYSIS SYSTEM	PCT/US15/38386	June 29, 2015	Inactive
PCT	METHOD AND DEVICE FOR CARBONYL DETECTION AND QUANTITATION	PCT/US15/38389	June 29, 2015	Inactive
PCT	ANALYSIS CARTRIDGE AND METHOD FOR USING SAME	PCT/US15/38391	June 29, 2015	Inactive
PCT	BREATH ANALYSIS SYSTEM	PCT/US15/38392	June 29, 2015	Inactive
PCT	FLUORESCENCE DETECTION ASSEMBLY	PCT/US15/38394	June 29, 2015	Inactive
PCT	METHODS, SYSTEMS, AND COMPOSITIONS FOR DETECTION OF ALDEHYDES	PCT/US2017/18399	Feb 17, 2017	Inactive