

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4158221

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	SECURITY INTEREST	
CONVEYING PARTY DATA		
	Name	Execution Date
	PULSE HEALTH LLC	11/22/2016
RECEIVING PARTY DATA		
Name:	GERARD K. CAPPELLO, TRUSTEE OF THE GERARD K. CAPPELLO TRUST - 2000	
Street Address:	C/O GERARD CAPPELLO	
Internal Address:	100 WILSHIRE BLVD., SUITE 1200	
City:	SANTA MONICA	
State/Country:	CALIFORNIA	
Postal Code:	90401	
Name:	THE E. FRANK AND KATHERINE M. FRANCONI TRUST DATED 03/24/1998	
Street Address:	1201 BRICKYARD WAY	
Internal Address:	#411	
City:	RICHMOND	
State/Country:	CALIFORNIA	
Postal Code:	94801	
Name:	DREW GITLIN	
Street Address:	150 N ANITA	
City:	LOS ANGELES	
State/Country:	CALIFORNIA	
Postal Code:	90049	
Name:	CERVECERO INVESTMENTS LLC	
Street Address:	726 ASBURY AVENUE	
City:	EVANSTON	
State/Country:	ILLINOIS	
Postal Code:	60202	
Name:	MICHAEL P. BALKIN	
Street Address:	1145 GREEN BAY ROAD	
City:	GLENCOE	
State/Country:	ILLINOIS	
Postal Code:	60022	

PATENT

PROPERTY NUMBERS Total: 17

Property Type	Number
Application Number:	62296947
Application Number:	14754534
Patent Number:	9404836
Application Number:	29531769
Application Number:	29531770
Patent Number:	D773055
Application Number:	29531773
Application Number:	14754594
Patent Number:	9494495
Application Number:	14754618
Application Number:	15224251
Application Number:	15351406
PCT Number:	US1538386
PCT Number:	US1538389
PCT Number:	US1538391
PCT Number:	US1538392
PCT Number:	US1538394

CORRESPONDENCE DATA

Fax Number: (503)220-2480

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.

Phone: 503-224-3380

Email: kassim.ferris@stoel.com, kris.roche@stoel.com

Correspondent Name: KASSIM M. FERRIS

Address Line 1: 760 SW NINTH AVENUE

Address Line 2: SUITE 3000

Address Line 4: PORTLAND, OREGON 97205-2586

ATTORNEY DOCKET NUMBER:	38666/1
NAME OF SUBMITTER:	KASSIM M. FERRIS
SIGNATURE:	/-KASSIM.M. FERRIS./
DATE SIGNED:	11/28/2016

Total Attachments: 16

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**AMENDMENT NO. 1 TO
SECURITY INTEREST
IN PATENTS AND TRADEMARKS**

THIS AMENDMENT NO. 1 TO SECURITY INTEREST IN PATENTS AND TRADEMARKS (this "**Amendment**"), effective as of November 22, 2016, 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 (the "**Security Interest**"). Capitalized terms used and not otherwise defined herein have the meanings given to such terms in the Security Interest.

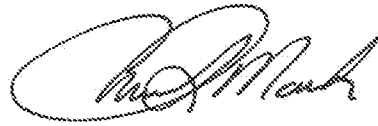
FOR GOOD AND VALUABLE CONSIDERATION, receipt and sufficiency of which are hereby acknowledged, the Grantor hereby agrees as follows:

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 Marks and Patents, in each case together with (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 B to the Security Interest is hereby amended and restated to read in its entirety as Schedule B attached hereto.
3. 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.
4. Except as and to the extent expressly modified by this Amendment, the Security Interest shall remain in full force and effect in all respects.

[Signature page follows.]

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:

Christopher Marsh, Chief Executive Officer

Exhibit A to Amendment No. 1 to
Security Interest in Patents and Trademarks

Additional Grantees

1. Gerard K. Cappello, Trustee of the Gerard K. Cappello Trust - 2000
2. The E. Frank and Katherine M. Francone Trust dated March 24, 1998
3. Drew Gitlin
4. Cervecero Investments LLC
5. Michael P. Balkin

SCHEDULE B

LIST OF PATENTS AND PATENT APPLICATIONS

Filing Location	Title	App. No./Patent No.	Filing Date/Grant Date	Status
U.S.	BREATH ANALYSIS DEVICE	62/018448	June 27, 2014	Expired
U.S.	BREATH ANALYSIS DEVICE	62/149988	April 20, 2015	Expired
U.S.	PHENYL DIAMINE COMPOUNDS AS NOVEL REPORTERS FOR ALDEHYDE DETECTION AND QUANTITATION	62/156441	May 4, 2015	Expired
U.S.	BREATH ANALYSIS SYSTEM	62/296,947	Feb 18, 2016	Pending
U.S.	BREATH ANALYSIS SYSTEM	14/754534	June 29, 2015	Pending
U.S.	METHOD AND DEVICE FOR CARBONYL DETECTION AND QUANTITATION	14/754567 9,404,836	June 29, 2015 August 2, 2016	Issued
U.S.	ANALYSIS DEVICE	29/531769	June 29, 2015	Pending
U.S.	BREATH CARTRIDGE	29/531770	June 29, 2015	Pending
U.S.	BREATH CARTRIDGE AND HANDLE	29/531771 D773,055	June 29, 2015 Nov 29, 2016	Issued
U.S.	HANDLE	29/531773	June 29, 2015	Pending
U.S.	ANALYSIS CARTRIDGE AND METHOD FOR USING SAME	14/754594	June 29, 2015	Pending

Schedule B - 1

Filing Location	Title	App. No./Patent No.	Filing Date/Grant Date	Status
U.S.	BREATH ANALYSIS SYSTEM	14/754608 9,494,495	June 29, 2015 Nov 15, 2016	Issued
U.S.	FLUORESCENCE DETECTION ASSEMBLY	14/754618	June 29, 2015	Pending Allowed
U.S.	ANALYSIS CARTRIDGE	15/224,251	July 29, 2016	Pending
U.S.	BREATH ANALYSIS SYSTEM	15/351,406	Nov 14, 2016	Pending
PCT	BREATH ANALYSIS SYSTEM	PCT/US15/38386	June 29, 2015	Pending
PCT	METHOD AND DEVICE FOR CARBONYL DETECTION AND QUANTITATION	PCT/US15/38389	June 29, 2015	Pending
PCT	ANALYSIS CARTRIDGE AND METHOD FOR USING SAME	PCT/US15/38391	June 29, 2015	Pending
PCT	BREATH ANALYSIS SYSTEM	PCT/US15/38392	June 29, 2015	Pending
PCT	FLUORESCENCE DETECTION ASSEMBLY	PCT/US15/38394	June 29, 2015	Pending
Taiwan	BREATH ANALYSIS SYSTEM	104120999	June 29, 2015	Pending
Taiwan	METHOD AND DEVICE FOR CARBONYL DETECTION AND QUANTITATION	104120993	June 29, 2015	Pending Published

SECURITY INTEREST IN PATENTS AND TRADEMARKS

FOR GOOD AND VALUABLE CONSIDERATION, receipt and sufficiency of which are hereby acknowledged, Pulse Health LLC, an Oregon limited liability company (the “**Grantor**”), hereby grants to the persons and legal entities listed on Exhibit A attached hereto (the “**Grantees**”) a security interest in (i) all of the Grantor’s right, title and interest in and to the trademarks, trademark registrations and trademark applications set forth on Schedule A attached hereto (the “**Marks**”); (ii) all of the Grantor’s right, title and interest in and to the patents and patent applications set forth on Schedule B attached hereto (the “**Patents**”), in each case together with (iii) all “proceeds” (as such term is defined in the Agreement referred to below) 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.

THIS SECURITY INTEREST IN PATENTS AND TRADEMARKS (this “**Security Interest**”), effective as of November 19, 2015, is made to secure the satisfactory performance and payment of all the obligations of Grantor under the Third Amended and Restated Note Purchase Agreement dated as of February 23, 2015, among the Grantor, the Grantees and the other parties thereto (as amended, modified or supplemented from time to time, the “**Agreement**”) and the secured promissory notes issued thereunder.

This Security Interest has been granted in conjunction with the security interest granted to the Grantees under the Agreement. The rights and remedies of the Grantees with respect to the security interest granted herein are without prejudice to, and are in addition to those set forth in the Agreement, all terms and provisions of which are incorporated herein by reference. In the event that any provisions of this Security Interest are deemed to conflict with the Agreement, the provisions of the Agreement shall govern.

[Signature page follows.]

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

Pulse Health LLC

By: _____
Christopher Marsh, Chief Executive Officer

Exhibit A

Grantees

1. David Thompson
750 NE Columbia Blvd.
Portland, OR 97211
2. Michelle Nicole Tate Higgins Trust dated 01/07/2002
10153 1/2 Riverside Drive, #598
Toluca Lake, CA 91602
3. Jill Tate Higgins Living Trust dated 10-31-84
10153 1/2 Riverside Drive, #598
Toluca Lake, CA 91602
4. Lon Martin
1972 Cheryl Court
Lake Oswego, OR 97034
5. Mike Martin
3469 Cascade Terrace
West Linn, OR 97068
6. David Longood
3375 Argyle Drive S
Salem, OR 97302
7. Savoldelli Family Trust
100 Crescent Ct., #1200
Dallas, TX 75201
8. Robert Bauer
8410 Edwin Dr.
Los Angeles, CA 90046
9. Equity Trust Company, Custodian FBO Robert Michael Deutschman IRA
Account No. 175301
1061 Villa View Dr.
Pacific Palisades, CA 90272
10. John Schwartz
PO Box 192074
Miami Beach, FL 33119

11. Elevado Investment Company, LLC
23622 Calabasas Rd., #200
Calabasas, CA 91302
12. EZ Colony Partners, LLC
23622 Calabasas Rd., #200
Calabasas, CA 91302
13. SPA Trust U/T/D 9/13/2004
23622 Calabasas Rd., #200
Calabasas, CA 91302
14. Marc Ezralow
23622 Calabasas Rd., #200
Calabasas, CA 91302
15. Thomas Milana Jr.
11 Black Rock Rd.
Muttontown, NY 11545
16. Wells Fargo Bank FBO Robert Maloney IRA
Wells Fargo Trust Operations - CHOPS
PO Box 1450 - NW 7595
Minneapolis, MN 55485
17. Domain Capital Partners, LLC
3501 Rice Blvd.
Houston, TX 77005
18. Equity Trust Company Custodian FBO Marshall S. Ezralow Roth IRA
23622 Calabasas Rd., #200
Calabasas, CA 91302
19. Jeffrey I Werbalowsky, TTEE U/A Dtd 8/6/04 Jeffrey I Werbalowsky Rev Trust
6000 Fox Meadow Ln.
Minneapolis, MN 55436
20. The Losito Family Trust U/A Dtd 3/23/98
725 Toyopa Dr.
Pacific Palisades, CA 90272
21. APW Avenue Group
10474 Santa Monica Blvd.
Los Angeles, CA 90025

22. Robert Deutschman, Trustee for Robert and Ellen Deutschman Family Trust
1061 Villa View Dr.
Pacific Palisades, CA 90272
23. Nautilus Trust Dtd 9/10/99
100 N Crescent Dr., #300
Beverly Hills, CA 90210
24. Harlan Gibbs
24544 Wingfield Rd.
Hidden Hills, CA 91302
25. Bruce M. Ramer, Co-Trustee of the Bruce and Madeline Ramer Living Trust U/D/T
dated January 9, 2009
132 S Rodeo Dr.
Beverly Hills, CA 90212
26. 7729 Rainbow, LLC
807 E 12th St., #401
Los Angeles, CA 90021
27. Juan Jose Licata
1420 Brickell Bay Dr., Apt. 807
Miami, FL 33131
28. Maricio Pasos
901 Brickell Key Blvd., Apt. 3604
Miami, FL 33131
29. Eduardo Stigol
16140 Saddle Ln
Weston, FL 33326
30. Luzich Partners, LLC
5055 West Patrick Lane, Suite 104
Las Vegas, NV 89118
31. Nauman Toor
3716 Caesars Circle
Las Vegas, NV 89120
32. Toor Capital LLC
3716 Caesars Circle
Las Vegas, NV 89120

33. The J and C Wadsworth 1987 Family Trust
16342 Shadow Mountain Dr.
Pacific Palisades, CA 90272
34. M Square Trust, dated October 1, 1992
17383 Sunset Blvd., Suite A-450
Pacific Palisades, CA 90272
35. Losito 1999 Children's Trust
725 Toyopa Drive
Pacific Palisades, CA 90272
36. John Weeldreyer
6432 Norway Rd.
Dallas, TX 75230
37. Nicole Weeldreyer
6432 Norway Rd.
Dallas, TX 75230
38. SPK Pulse Health LLC
10877 Wilshire Blvd., #1605
Los Angeles, CA 90024
39. David Deutschman
1061 Villa View Drive
Pacific Palisades, CA 90272
40. Danielle Deutschman
1061 Villa View Drive
Pacific Palisades, CA 90272
41. Robert and Ellen Deutschman Family Trust
1061 Villa View Dr.
Pacific Palisades, CA 90272
42. Lakeside Enterprises LP
10153 1/2 Riverside Dr., #598
Toluca Lake, CA 91602
43. Shah Family Trust dated July 10, 1986
5020 Copa de Oro
Anaheim Hills, CA 92807

44. Bryan Ezralow 1994 Trust U/T/D 12/22/1994
23622 Calabasas Road, Suite 200
Calabasas, CA 91302
45. Marc Ezralow Irrevocable Trust U/T/D 06/01/2004
23622 Calabasas Road, Suite 200
Calabasas, CA 91302
46. Angela Kay
488 Mesa Road
Santa Monica, CA 90402
47. Jerry L. Kay, Trustee of the Jerry L. Kay, Inc. Pension Trust
488 Mesa Road
Santa Monica, CA 90402
48. Lawrence R. Forbes Jr.
116 Rosencrans Place
Manhattan Beach, CA 90266
49. Etrade Clearing LLC, Custodian FBO David Longood IRA
3375 Argyle Dr. S
Salem, OR 97302
50. Millennium Trust Co., LLC, Custodian FBO Drew Gitlin IRA
150 N Anita
Los Angeles, CA 90049
51. Millennium Trust Co., LLC, Custodian FBO Shirley Gitlin IRA
150 N Anita
Los Angeles, CA 90049
52. The Stone Family Trust dated 11/17/89
12849 Chalon Road
Los Angeles, CA 90049
53. Millennium Trust Company, LLC, Custodian FBO David Losito, Account No.
296369C66
725 Toyopa Drive
Pacific Palisades, CA 90272
54. Sedacca Family Trust dtd 5/23/07
328 S Rodeo Drive
Beverly Hills, CA 90212

- 55. Dina L. Hirsch
24611 Mulholland Hwy
Calabasas, CA 91302
- 56. Barth Family Trust Dtd 4/3/93
2200 Chaucer Road
San Marino, CA 91108
- 57. Edward Menavsky
20252 Inland Lane
Malibu, CA 90265
- 58. Mark and NancyJane Goldston Family Trust dated November 8, 1997
14129 Beresford Road
Beverly Hills, CA 90210
- 59. Steven Gold
50 Mount Tiburon Road
Tiburon, CA 94920
- 60. Four Futures Investments, LLC
8639 Drake Ave
Skokie, IL 60076
- 61. Schuyler W. Lininger Jr.
1302 SE 57th Avenue
Portland, OR 97215
- 62. Trust #101 U/A/D 5-22-90
c/o Wrigley Management Inc.
401 N Michigan Ave., Suite 3200
Chicago, IL 60611

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
	4,523,867	5/20/2014

SCHEDULE B

LIST OF PATENTS AND PATENT APPLICATIONS

Filing Location	Title	App. No.	Filing Date	Status
U.S.	BREATH ANALYSIS DEVICE	62/018448	June 27, 2014	Expired
U.S.	BREATH ANALYSIS DEVICE	62/149988	April 20, 2015	Pending
U.S.	PHENYL DIAMINE COMPOUNDS AS NOVEL REPORTERS FOR ALDEHYDE DETECTION AND QUANTITATION	62/156441	May 4, 2015	Pending
U.S.	BREATH ANALYSIS SYSTEM	14/754534	June 29, 2015	Pending
U.S.	METHOD AND DEVICE FOR CARBONYL DETECTION AND QUANTITATION	14/754567	June 29, 2015	Pending
U.S.	ANALYSIS DEVICE	29/531769	June 29, 2015	Pending
U.S.	BREATH CARTRIDGE	29/531770	June 29, 2015	Pending
U.S.	BREATH CARTRIDGE AND HANDLE	29/531771	June 29, 2015	Pending
U.S.	HANDLE	29/531773	June 29, 2015	Pending
U.S.	ANALYSIS CARTRIDGE AND METHOD FOR USING SAME	14/754594	June 29, 2015	Pending
U.S.	BREATH ANALYSIS SYSTEM	14/754608	June 29, 2015	Pending
U.S.	FLUORESCENCE DETECTION ASSEMBLY	14/754618	June 29, 2015	Pending

Filing Location	Title	App. No.	Filing Date	Status
PCT	BREATH ANALYSIS SYSTEM	PCT/US15/38386	June 29, 2015	Pending
PCT	METHOD AND DEVICE FOR CARBONYL DETECTION AND QUANTITATION	PCT/US15/38389	June 29, 2015	Pending
PCT	ANALYSIS CARTRIDGE AND METHOD FOR USING SAME	PCT/US15/38391	June 29, 2015	Pending
PCT	BREATH ANALYSIS SYSTEM	PCT/US15/38392	June 29, 2015	Pending
PCT	FLUORESCENCE DETECTION ASSEMBLY	PCT/US15/38394	June 29, 2015	Pending
Taiwan	BREATH ANALYSIS SYSTEM	104120196	June 29, 2015	Pending
Taiwan	METHOD AND DEVICE FOR CARBONYL DETECTION AND QUANTITATION	104120993	June 29, 2015	Pending