PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT7576340

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
VALENCELL, INC.	07/07/2022

RECEIVING PARTY DATA

Name:	YUKKA MAGIC LLC
Street Address:	CORPORATION TRUST CENTER
Internal Address:	1209 ORANGE ST
City:	WILMINGTON
State/Country:	DELAWARE
Postal Code:	19801

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16824235

CORRESPONDENCE DATA

Fax Number: (303)223-1111

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ATTORNEY DOCKET NUMBER:	YUK0003.USC6
NAME OF SUBMITTER:	SONYA DOMINGO
SIGNATURE:	/Sonya Domingo/
DATE SIGNED:	10/05/2022

Total Attachments: 11
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ASSIGNMENT OF PATENT RIGHTS

This patent assignment (this "**Assignment**") is entered into as of the date set forth below by and between Valencell, Inc., a Delaware corporation, having an address at 4601 Six Forks Road, Suite 103, Raleigh, NC27609 ("**Assignor**"), and Yukka Magic LLC, a Delaware limited liability company, having a registered address at Corporation Trust Center, 1209 Orange St, Wilmington, DE 19801 ("**Assignee**").

For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor, does hereby irrevocably sell, assign, transfer, and convey unto Assignee, or Assignee's designees, all of Assignor's right title and interest in and to all of the following (collectively, the "**Assigned Patent Rights**"):

(a) all provisional patent applications, patent applications, and patents listed in the attached Attachment 1 (the "**Patents**");

(b) all provisional patent applications, patent applications, patents or other similar governmental grants or issuances worldwide (i) from which any of the Patents directly or indirectly claims priority and/or (ii) for which any of the Patents directly or indirectly forms a basis for priority;

(c) any reissues, reexaminations, extensions, continuations, continuations in part, continuing prosecution applications, requests for continuing examinations, and divisions, worldwide, of any provisional patent application, patent application, patent or other governmental grant or issuance set forth in clauses (a) and/or (b);

(d) foreign patents, patent applications, and counterparts relating to any item in the foregoing categories (a) through (c), including, without limitation, certificates of invention, utility models, industrial design protection, design patent protection, and other governmental grants or issuances (clauses (a) through (d), collectively, the "Assigned Patents");

(e) any inventions, invention disclosures, discoveries and other items claimed or described in any Assigned Patents and all other rights arising out of such inventions, invention disclosures, discoveries and other items, worldwide, whether any patents have issued on such inventions, invention disclosures, and/or discoveries and whether or not claims related to any of the foregoing have been rejected, withdrawn, cancelled, abandoned or the like;

(f) items in any of the foregoing in categories (a) through (e), whether or not expressly listed as Patents in the attached Attachment 1 and whether or not claims in any of the foregoing have been rejected, withdrawn, cancelled, or the like;

(g) rights to apply in any or all countries of the world for patents, certificates of invention, utility models, industrial design protections, design patent protections, or other governmental grants or issuances of any type related to any item in the foregoing categories (a) through (h), including, without limitation, under the Paris Convention for the Protection of Industrial Property, the International Patent Cooperation Treaty, or any other convention, treaty, agreement, or understanding;

(h) any causes of action (whether currently pending, filed or otherwise) and all other enforcement rights and rights to remedies under, on account of, or related to any of the Patents and/or any item in any of the foregoing categories (a) through (g), including, without limitation, all causes of action and other enforcement rights for (i) damages, (ii) injunctive relief, and (iii) other remedies of any kind for past, current and future infringement, misappropriation or violation of rights and all rights to sue for any of the foregoing;

(i) all rights to collect past and future royalties and other payments under, on account of, or related to any of the Assigned Patents and/or any item in the foregoing categories (e) through (h) other than royalties and other payments due to Valencell under a written agreement existing before April 30, 2022 between Valencell and a third party; and

(j) any and all other rights and interests worldwide, arising out of, in connection with or in relation to the Assigned Patents and/or any item in the foregoing categories (e) through (i).

Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models or other governmental grants or issuances that may be granted upon any of the Assigned Patent Rights in the name of Assignee, as the assignee to the entire interest therein.

The terms and conditions of this Assignment will inure to the benefit of Assignee, its successors, assigns, and other legal representatives and will be binding upon Assignor, its successors, assigns, and other legal representatives.

In witness whereof, intending to be legally bound, the Parties have executed this Assignment as of the Assignment Date.

Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models or other governmental grants or issuances that may be granted upon any of the Assigned Patent Rights in the name of Assignee, as the assignee to the entire interest therein.

The terms and conditions of this Assignment will inure to the benefit of Assignee, its successors, assigns, and other legal representatives and will be binding upon Assignor, its successors, assigns, and other legal representatives.

In witness whereof, intending to be legally bound, the Parties have executed this Assignment as of the date set forth below.

ASSIGNOR:
Valencell, Inc.

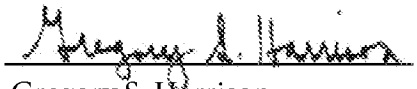
By: 

Name: Dr. Steven F. LeBoeuf

Title: President

Date: July 7th, 2022

ASSIGNEE:
On Behalf of Yukka Magic LLC

By: 

Name: Gregory S. Harrison

Title: Manager

Date: July 8, 2022

Attachment 1

Application #	Publication/Patent Number	Country	Date	Seller Family ID	Family ID	Class	Title
	1,207,811	HK	03/24/17	9653-3	3	Offered	Telemetric Apparatus for Health and Environmental Monitoring
7862660.3-1660	2,094,152	EP (UK, France, Germany)	04/13/16	9653-3EP	3	Offered	Telemetric Apparatus for Health and Environmental Monitoring
14190369-1666	2,862,504	EP (UK, France, Germany)	06/01/16	9653-3EP2	3	Offered	Telemetric Apparatus for Health and Environmental Monitoring
11/811,844	8,652,040	US	02/18/14	9653-3	3	Offered	Telemetric Apparatus for Health and Environmental Monitoring
14/069,494	10,413,197	US	09/17/19	9653-3TSCT2	3	Offered	Apparatus, systems and methods for obtaining cleaner physiological information signals
14/101,468	10,716,481	US	07/21/20	9653-3TSCT3	3	Offered	Apparatus, systems, and methods for monitoring and evaluating cardiopulmonary functioning
14/264,898	10,987,005	US	04/27/21	9653-3TSCT4	3	Offered	Systems and methods for presenting personal health information
15/949,309	11,000,190	US	05/11/21	9653-3TSCT2DV	3	Offered	Apparatus, systems and methods for obtaining cleaner physiological information signals
14/264,850	11,083,378	US	08/10/21	9653-3TSCT7	3	Offered	Wearable apparatus having integrated physiological and/or environmental sensors
16/532,732	11,109,767	US	09/07/21	9653-3TSCT2CT	3	Offered	Apparatus, systems and methods for obtaining cleaner physiological information signals
14/271,041	11,272,848	US	03/15/22	9653.3TSCT5	3	Offered	Wearable apparatus for multiple types of physiological and/or environmental monitoring
15/949,266	11,272,849	US	03/15/22	9653-3TSCT13	3	Offered	Wearable apparatus
14/063,669	11,324,407	US	05/10/22	9653-3TSCT	3	Offered	Methods and apparatus for physiological and environmental monitoring with optical and footsep sensors
15/910,711	11,350,831	US	06/07/22	9653-3TSCT12	3	Offered	Physiological monitoring apparatus
15/949,282	20180228381 A1	US	Published	9653.3TSCT14	3	Offered	EARPIECE MONITOR
15/949,331	20180220906	US	Allowed	9653.3TSCT6DV	3	Offered	PHYSIOLOGICAL MONITORING APPARATUS AND NETWORKS
16/932,377	20200345243 A1	US	Published	9653.3TSCT3CT	3	Offered	APPARATUS, SYSTEMS AND METHODS FOR MONITORING AND EVALUATING CARDIOPULMONARY FUNCTIONING
17/233,821	20210236003 A1	US	Published	9653.3TSCT7CT	3	Offered	WEARABLE APPARATUS HAVING INTEGRATED PHYSIOLOGICAL AND/OR ENVIRONMENTAL SENSORS
15/949298	20180220903	US	Published	9653-3TSCT15	3	Offered	Wearable apparatus
11/848,878	8,157,730	US	04/17/12	9653-4	4	Offered	Physiological and Environmental Monitoring Systems and Methods
12/985,830	8,204,786	US	06/19/12	9653-4DV	4	Offered	Physiological and Environmental Monitoring Systems and Methods
13/447,991	8,702,607	US	04/22/14	9653-4CT4	4	Offered	Targeted Advertising Systems and Methods
15/210,154	10,258,243	US	04/16/19	9653-4TSDV2CT2DV	4	Offered	Apparatus, Systems, and Methods for Measuring Environmental Exposure and Physiological Response thereto
15/967,789	10,595,730	US	03/24/20	9653-4TSDV2CT4DV	4	Offered	Physiological Monitoring Methods
14/299,233	11,295,856	US	04/05/22	9653-4TSDV2CT2	4	Offered	Apparatus, system, and methods for measuring environmental exposure and physiological response thereto
14/595,471	20150141772 A1	US	Published	9653.4TSDV2CT4	4	Offered	Physiological Monitoring Methods
12/256,793	8,251,903	US	08/28/12	9653-6	6	Offered	Noninvasive Physiological Analysis Using Excitation-Sensor Modules and Related Devices and Methods
13/554,466	8,512,242	US	08/20/13	9653-6DV	6	Offered	Noninvasive Physiological Analysis Using Excitation-Sensor Modules and Related Devices and Methods
13/552,117	9,044,180	US	06/02/15	9653-6CT	6	Offered	Noninvasive Physiological Analysis Using Excitation-Sensor Modules and Related Devices and Methods
13/566,269	9,808,204	US	11/07/17	9653-6CT2	6	Offered	Noninvasive Physiological Analysis Using Excitation-Sensor Modules and Related Devices and Methods
14/116,642	9,427,191	US	08/30/16	9653-12TS	12	Offered	Apparatus and Methods for Estimating Time-State Physiological Parameters
15/219,770	9,521,962	US	12/20/16	9653-12TSCT	12	Offered	Apparatus and Methods for Estimating Time-State Physiological Parameters
15/369,629	9,788,785	US	10/17/17	9653-12TSCT2	12	Offered	Apparatus and Methods for Estimating Time-State Physiological Parameters
14105924.4	1,192,437	HK	04/06/17	9653-13HK2	13	Offered	Systems and Methods for Variable Filter Adjustment by Heart Rate Metric Feedback
12820308-1657	2,739,207	EP (UK, France, Germany)	07/19/17	9653-13EP	13	Offered	Systems and Methods for Variable Filter Adjustment by Heart Rate Metric Feedback

Attachment 1

Application #	Publication/Patent Number	Country	Date	Seller Family ID	Family ID	Class	Title
14/124,465	9,801,552	US	10/31/17	9653-13TS	13	Offered	Systems and Methods for Variable Filter Adjustment by Heart Rate Metric Feedback
14/370,658	10,390,762	US	08/27/19	6724-013	6274-007	Offered	Physiological metric estimation rise and fall limiting
15/784,960	10,512,403	US	12/24/19	9653-13TSCT	13	Offered	Systems and Methods for Variable Filter Adjustment by Heart Rate Metric Feedback
17111008.8	1236788	HK	Published	9653.13.HK2	13	Offered	Systems and Methods for Variable Filter Adjustment by Heart Rate Metric Feedback
17169569.5	3222210A1	European Patent Office	Published	9653.13.EP2	13	Offered	Systems and Methods for Variable Filter Adjustment by Heart Rate Metric Feedback
16/683,884	20200077899A1	US	Allowed	9653.13TSCT2	13	Offered	SYSTEMS AND METHODS FOR VARIABLE FILTER ADJUSTMENT BY HEART RATE METRIC FEEDBACK
14/370,689	10,349,844	US	07/16/19	6724-014	6274-008	Offered	Reduction of physiological metric error due to inertial cadence
29/403,770	D666169S1	US	08/28/12	9653-15	15	Offered	Monitoring Earbud
14/761,510	10,076,253	US	09/18/18	9653-17TS2	17	Offered	Physiological Monitoring Devices Having Sensing Elements Decoupled from Body Motion
14/761,462	10,856,749	US	12/08/20	9653-17TS	17	Offered	Physiological monitoring devices having sensing elements decoupled from body motion
16/238,921	11,266,319	US	03/08/22	9653-17TSCT3	17	Offered	Physiological monitoring devices having sensing elements decoupled from body motion
19132952.3	40009544	HK	Published	9653.17.HKS	17	Offered	Physiological Monitoring Devices Having Sensing Elements Decoupled from Body Motion
201910036179.9	110013239A	CN	Published	9653.17.CNS	17	Offered	Physiological Monitoring Devices Having Sensing Elements Decoupled from Body Motion
201910036198.1A	110013240A	CN	Published	9653.17.CN4	17	Offered	Physiological Monitoring Devices Having Sensing Elements Decoupled from Body Motion
16/999,861	20200375482A1	US	Published	9653.17TSCT4	17	Offered	PHYSIOLOGICAL MONITORING DEVICES HAVING SENSING ELEMENTS DECOUPLED FROM BODY MOTION
ZL 201280071447.7	104203088B	CN	09/22/17	6724-017	6274-008	Offered	Reduction of Physiological Metric Error Due to Inertial Cadence
ZL 201480018381.4		CN	02/01/19	9653-17CN2	17	Offered	Physiological Monitoring Devices Having Sensing Elements Decoupled from Body Motion
ZL 201480019033.9		CN	07/12/18	9653-17CN	17	Offered	Physiological Monitoring Devices Having Sensing Elements Decoupled from Body Motion
ZL 201810556676.7		CN	08/10/21	9653-17CN3	17	Offered	Physiological Monitoring Devices Having Sensing Elements Decoupled from Body Motion
15104781.8A	1,204,252	HK	06/15/18	6724-020	6274-008	Offered	Reduction of physiological metric error due to inertial cadence
29/467,146	D736,935	US	08/18/15	9653-21	21	Offered	Biometric Monitor Housing
	2,684,001	EU Community	04/17/15	9653-22	22	Offered	Biometric Monitor
4/655,992	9,993,204	US	06/12/18	6724-022	6724-009	Offered	Cadence detection based on inertial harmonics
29/469,235	D719,860	US	12/23/14	9653-22DS	22	Offered	Biometric Monitor
29/507,012	D733,598	US	07/07/15	9653-22DS2	22	Offered	Biometric Monitor
14737554.7A	2,943,753 B	EP (UK, France, Germany)	04/01/20	6724-023	6724-009	Offered	Cadence detection based on inertial harmonics
ZL 201480004411.6	104969035B	CN	03/25/19	6724-024	6724-009	Offered	Method and System for Cadence Detection Based on Inertial Harmonics
16100912.7A	1,212,878 B	HK	02/21/20	6724-025	6724-009	Offered	Cadence detection method and system based on inertial harmonics
15/400,010	10,015,582	US	07/03/18	9653-27CT	27	Offered	Earbud monitoring devices
15/324,139	10,536,768	US	01/14/20	9653-27	27	Offered	Optical Physiological Sensor Modules with Reduced Signal Noise
15/794,728	10,623,849	US	04/14/20	9653-27CT2	27	Offered	Optical monitoring apparatus and methods
16/688,800	11,252,498	US	02/15/22	9653-27DV	27	Offered	Optical physiological monitoring devices
16/688,817	11,252,499	US	02/15/22	9653-27DV2	27	Offered	Optical physiological monitoring devices
16/011,985	11,330,361	US	05/10/22	9653-27CT3	27	Offered	Hearing aid optical monitoring apparatus
15830336.2	3151737A4	European Patent Office	Published	9653.27.EP	27	Offered	Optical Physiological Sensor Modules with Reduced Signal Noise
17105761.7	1232107A1	HK	Published	9653.27.HK	27	Offered	Optical Physiological Sensor Modules with Reduced Signal Noise
17108322.3		HK	Published	9653.27.HKX	27	Offered	Optical Physiological Sensor Modules with Reduced Signal Noise
17150916.9	3199100A1	European Patent Office	Published	9653.27.EPX	27	Offered	Optical Physiological Sensor Modules with Reduced Signal Noise
ZL 201710569898.8	107260142B	CN	10/20/20	6724-031	6274-008	Offered	Reduction of Physiological Metric Error Due to Inertial Cadence
15/554,193	11,000,231	US	05/11/21	9653-32X2	32	Offered	Optical adapters for wearable monitoring devices
15/554,171	11,033,231	US	06/15/21	9653-32X	32	Offered	Stabilized monitoring devices
15/554,158	11,197,636	US	12/14/21	9653-32	32	Offered	Stabilized sensor modules and monitoring devices incorporating same
15/661,220	11,350,884	US	06/07/22	6724-032	6274-007	Offered	Physiological Metric Estimation Rise and Fall Limiting

Attachment 1

Application #	Publication/Patent Number	Country	Date	Seller Family ID	Family ID	Class	Title
16759275.7	16759275.7	European Patent Office	Published	9653.32X.EP	32	Offered	Stabilized Monitoring Devices
18102476.9	18102476.9	HK	Published	9653.32X.HK	32	Offered	Stabilized Monitoring Devices
17/520,156	20220054086	US	Published	9653.32DV	32	Offered	STABILIZED SENSOR MODULES AND MONITORING DEVICES INCORPORATING SAME
18101743.8	1,250,210	HK	03/26/21	6724-033	6274-008	Offered	Reduction of physiological metric error due to inertial cadence
15/744,642	11,058,304	US	07/13/21	9653-33	33	Offered	Methods of controlling biometric parameters via musical audio
17/347,293	20210298614A1	US	Published	9653.33CT	33	Offered	METHODS OF DETERMINING VENTILATORY THRESHOLD
15/751,733	10,856,812	US	12/08/20	9653-34	34	Offered	Methods and apparatus for detecting motion via optomechanics
15/958,113	11,363,987	US	06/21/22	6724-034	6724-009	Offered	Cadence Detection Based on Inertial Harmonics
18108096.6	1248497A1	HK	Published	9653.34.HK	34	Offered	Methods and Apparatus for Detecting Motion Via Optomechanics
21181292.0A	3918979A3	European Patent Office	Published	9653.34.EP2	34	Offered	Methods and Apparatus for Detecting Motion Via Optomechanics
42022049994.1	40058788 A	HK	Published	9653.34.HK2	34	Offered	Methods and Apparatus for Detecting Motion Via Optomechanics
201680047372.7A	108348154A	China	Published	9653.34.CN	34	Offered	Methods and Apparatus for Detecting Motion Via Optomechanics
16/995,127	2020037554 7A1	US	Published	9653.34CT	34	Offered	METHODS AND APPARATUS FOR DETECTING MOTION VIA OPTOMECHANICS
16835810.9A	3,310,252	EP (UK, France, Germany)	09/22/21	9653-34EP	34	Offered	Methods and apparatus for detecting motion via optomechanics
15/299,684	10,610,158	US	04/07/20	9653-36	36	Offered	Physiological monitoring devices and methods that identify subject activity type
15/922,610	10,945,618	US	03/16/21	9653.36IP	36	Offered	Physiological monitoring devices and methods for noise reduction in physiological signals based on subject activity type
18771241.9	3600013A1	European Patent Office	Published	9653.36IP.EP	36	Offered	PHYSIOLOGICAL MONITORING DEVICES AND METHODS FOR NOISE REDUCTION IN PHYSIOLOGICAL SIGNALS BASED ON SUBJECT ACTIVITY TYPE
62020010716.2	40020699	HK	Published	9653.36IP.HK	36	Offered	PHYSIOLOGICAL MONITORING DEVICES AND METHODS FOR NOISE REDUCTION IN PHYSIOLOGICAL SIGNALS BASED ON SUBJECT ACTIVITY TYPE
17/175,928	20210161415A1	US	Published	9653.36IPCT	36	Offered	PHYSIOLOGICAL MONITORING DEVICES AND METHODS FORE NOISE REDUCTION IN PHYSIOLOGICAL SIGNALS BASED ON SUBJECT ACTIVITY TYPE
16/146,362	10,542,896	US	01/28/20	6724-037	6274-008	Offered	Reduction of Physiological Metric Error Due to Inertial Cadence
15/643,965	10,966,662	US	04/06/21	9653-42	42	Offered	Motion-dependent averaging for physiological metric estimating systems and methods
16/694,402	10,631,740	US	04/28/20	6724-044	6274-008	Offered	Reduction of physiological metric due to intertial cadence
18897763.1	3706618A4	European Patent Office	Published	9653.47.EP	47	Offered	METHODS OF DETERMINING PHYSIOLOGICAL INFORMATION BASED ON BAYESIAN PEAK SELECTION AND MONITORING DEVICES INCORPORATING THE SAME
62021026087.8	40038004	HK	Published	9653.47.HK	47	Offered	METHODS OF DETERMINING PHYSIOLOGICAL INFORMATION BASED ON BAYESIAN PEAK SELECTION AND MONITORING DEVICES INCORPORATING THE SAME
16/958,112	20200342996	US	Published	9653.47	47	Offered	METHODS OF DETERMINING PHYSIOLOGICAL INFORMATION BASED ON BAYESIAN PEAK SELECTION AND MONITORING DEVICES INCORPORATING THE SAME
16/964,941	20210038161	US	Published	9653.49	49	Offered	EAR GEL MODULES AND EARPIECE MONITORING DEVICES INCORPORATING SAME
17/057,931	20210298619	US	Published	9653.50	50	Offered	Biometric Sensor Head Assembly
17/268,026	20210168539	US	Published	9653.51	51	Offered	HEARING AID DEVICE WITH BIOMETRIC SENSOR
17/427,459	20220159361	US	Pending	9653.52	52	Offered	RINGED-SHAPED BIOMETRIC EARPIECE
20767417.7	3911231A1	European Patent Office	Published	9653.54.EP	54	Offered	OPTICAL SENSOR MODULES WITH SELECTIVE OPTICAL PATHWAYS
62022047813.0	40059459	HK	Pending	9653.54.HK	54	Offered	OPTICAL SENSOR MODULES WITH SELECTIVE OPTICAL PATHWAYS
17/434,854	2022014249 4A1	US	Published	9653.54	54	Offered	OPTICAL SENSOR MODULES WITH SELECTIVE OPTICAL PATHWAYS
20848515.1	3941344A1	European Patent Office	Published	9653.55.EP	55	Offered	METHODS AND APPARATUS FOR DYNAMICALLY IDENTIFYING AND SELECTING THE BEST PHOTOPLETHYSMOGRAPHY SENSOR CHANNEL DURING MONITORING
62022051182.3	40063474	HK	Pending	9653.55.HK	55	Offered	METHODS AND APPARATUS FOR DYNAMICALLY IDENTIFYING AND SELECTING THE BEST PHOTOPLETHYSMOGRAPHY SENSOR CHANNEL DURING MONITORING
17/607,516		US	Pending	9653.55	55	Offered	METHODS AND APPARATUS FOR DYNAMICALLY IDENTIFYING AND SELECTING THE BEST PHOTOPLETHYSMOGRAPHY SENSOR CHANNEL DURING MONITORING

Attachment 1

Application #	Publication/Patent Number	Country	Date	Seller Family ID	Family ID	Class	Title
29/708,364		US	Pending	9653.56DS	56	Offered	LIGHT TRANSMISSIVE LENS AND FRAME FOR BIOMETRIC SENSOR MODULE
2014552207A	6,116,017	JP	03/31/17	6724-015	6274-008	Offered	Reduction of physiological metric error due to inertial cadence
15/318,449	11,129,572	US	09/28/21	9653-28	28a	Offered	Physiological monitoring devices with adjustable stability
17103922.8	1230051	HK	Published	9653.28.HK	28a	Offered	Physiological Monitoring Devices with Adjustable Stability
21189243.5	3954281A1	European Patent Office	Published	9653.28.EP2	28a	Offered	Physiological Monitoring Devices with Adjustable Stability
42022048945.4	40058689	HK	Published	9653.28.HK2	28a	Offered	Physiological Monitoring Devices with Adjustable Stability
17/487,849	20220015707A1	US	Published	9653.28CT	28a	Offered	Physiological Monitoring Devices with Adjustable Stability
17103940.6	1,230,053	HK	03/26/21	9653-29HK	29a	Offered	Physiological monitoring devices
14/807,061	9,538,921	US	01/10/17	9653-29	29a	Offered	Physiological Monitoring Devices with Adjustable Signal Analysis and Interrogation Power and Monitoring Methods Using Same
15/369,946	10,893,835	US	01/19/21	9653-29DV	29a	Offered	Physiological monitoring devices with adjustable signal analysis and interrogation power and monitoring methods using same
16/545,637	11,179,108	US	11/23/21	9653-29XCT4	29a	Offered	Physiologcial monitoring devices and methods using optical sensors
16/503,191	11,185,290	US	11/30/21	9653-29XCT	29a	Offered	Physiologcial monitoring devices and methods using optical sensors
16/526,700	11,337,655	US	05/24/22	9653-29XCT3	29a	Offered	Physiological monitoring devices and methods using optical sensors
20185366.0A	3744237A1	European Patent Office	Published	9653.29.EP2	29a	Offered	Physiological Monitoring Devices with Adjustable Signal Analysis and Interrogation Power and Monitoring Methods Using Same
21151461.7	3841966A1	European Patent Office	Published	9653.29.EPX2	29a	Offered	Physiological Monitoring Devices and Methods Using Optical Sensors
42021030461.4	40039854	HK	Published	9653.29.HK2	29a	Offered	Physiological Monitoring Devices with Adjustable Signal Analysis and Interrogation Power and Monitoring Methods Using Same
16/517,073	20190336081A1	US	Allowed	9653.29XCT2	29a	Offered	Physiological Monitoring Devices and Methods Using Optical Sensors
16/561,552	20200214641A1	US	Published	9653.29XCT5	29a	Offered	Physiological Monitoring Devices and Methods Using Optical Sensors
16/824,235	20200214641A1	US	Published	9653.29XCT6	29a	Offered	Physiological Monitoring Devices and Methods Using Optical Sensors
17/085,545	20210045693A1	US	Published	9653.29DV2	29a	Offered	Physiological Monitoring Devices with Adjustable Signal Analysis and Interrogation Power and Monitoring Methods Using Same
17/737,727		US	Pending	9653.29XCT3CT	29a	Offered	Physiological Monitoring Devices and Methods Using Optical Sensors
15827188.2A	3,139,823 B1	EP (UK, France, Germany)	11/04/20	9653-29EP	29a	Offered	Physiological monitoring device
15826541.3A	3,157,41281	EP (UK, France, Germany)	03/03/21	9653-29EPX	29a	Offered	PHYSIOLOGICAL MONITORING DEVICES AND METHODS USING OPTICAL SENSORS
17105762.6	1,233,881	HK	08/13/21	9653-29HKX	29a	Offered	Physiologcial monitoring devices and methods using optical sensors
14/829,032	9,794,653	US	10/17/17	9653-30	30a	Offered	Methods and Apparatus for Improving Signal Quality in Wearable Biometric Monitoring Devices
15/670,554	10,382,839	US	08/13/19	9653-30DV	30a	Offered	Methods for improving signal quality in wearable biometric monitoring devices
16/443,326	10,506,310	US	12/10/19	9653-30DVCT	30a	Offered	Wearable Biometric Monitoring Devices and Methods for Determining Signal Quality in Wearable Biometric Monitoring Devices
16/444,867	10,779,062	US	09/15/20	9653-30DVCT2	30a	Offered	Wearable biometric monitoring devices and methods for determining if wearable biometric monitoring devices are being worn
16/439,985	10,798,471	US	10/06/20	9653-30DV2	30a	Offered	Methods of improving signal quality in wearable biometric monitoring devices
16/453,769	10,834,483	US	11/10/20	9653-30DVCT3	30a	Offered	Wearable biometric monitoring devices and methods for determining if wearable biometric monitoring devices are being worn
17111971.1	1237631	HK	Published	9653.30.HK	30a	Offered	Methods and Apparatus for Improving Signal Quality in Wearable Biometric Monitoring Devices
20199932.3	3,804,612A1	European Patent Office	Published	9653.30.EP2	30a	Offered	Methods and Apparatus for Improving Signal Quality in Wearable Biometric Monitoring Devices
15844956.1	3,171,767	EP (UK, France, Germany)	07/07/21	9653-30EP	30a	Offered	Methods and apparatus for improving signal quality in wearable biometric monitoring devices

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Application #	Publication/Patent Number	Country	Date	Seller Family ID	Family ID	Class	Title
	1,207,811	HK	03/24/17	9653-3	3	Offered	Telemetric Apparatus for Health and Environmental Monitoring
7862660.3-1660	2,094,152	EP (UK, France, Germany)	04/13/16	9653-3EP	3	Offered	Telemetric Apparatus for Health and Environmental Monitoring
14190369-1666	2,862,504	EP (UK, France, Germany)	06/01/16	9653-3EP2	3	Offered	Telemetric Apparatus for Health and Environmental Monitoring
11/811,844	8,652,040	US	02/18/14	9653-3	3	Offered	Telemetric Apparatus for Health and Environmental Monitoring
14/069,494	10,413,197	US	09/17/19	9653-3TSCT2	3	Offered	Apparatus, systems and methods for obtaining cleaner physiological information signals
14/101,468	10,716,481	US	07/21/20	9653-3TSCT3	3	Offered	Apparatus, systems, and methods for monitoring and evaluating cardiopulmonary functioning
14/264,898	10,987,005	US	04/27/21	9653-3TSCT4	3	Offered	Systems and methods for presenting personal health information
15/949,309	11,000,190	US	05/11/21	9653-3TSCT2DV	3	Offered	Apparatus, systems and methods for obtaining cleaner physiological information signals
14/264,850	11,083,378	US	08/10/21	9653-3TSCT7	3	Offered	Wearable apparatus having integrated physiological and/or environmental sensors
16/532,732	11,109,767	US	09/07/21	9653-3TSCT2CT	3	Offered	Apparatus, systems and methods for obtaining cleaner physiological information signals
14/271,041	11,272,848	US	03/15/22	9653.3TSCT5	3	Offered	Wearable apparatus for multiple types of physiological and/or environmental monitoring
15/949,266	11,272,849	US	03/15/22	9653-3TSCT13	3	Offered	Wearable apparatus
14/063,669	11,324,407	US	05/10/22	9653-3TSCT	3	Offered	Methods and apparatus for physiological and environmental monitoring with optical and footsep sensors
15/910,711	11,350,831	US	06/07/22	9653-3TSCT12	3	Offered	Physiological monitoring apparatus
15/949,282	20180228381 A1	US	Published	9653.3TSCT14	3	Offered	EARPIECE MONITOR
15/949,331	20180220906	US	Allowed	9653.3TSCT6DV	3	Offered	PHYSIOLOGICAL MONITORING APPARATUS AND NETWORKS
16/932,377	20200345243 A1	US	Published	9653.3TSCT3CT	3	Offered	APPARATUS, SYSTEMS AND METHODS FOR MONITORING AND EVALUATING CARDIOPULMONARY FUNCTIONING
17/233,821	20210236003 A1	US	Published	9653.3TSCT7CT	3	Offered	WEARABLE APPARATUS HAVING INTEGRATED PHYSIOLOGICAL AND/OR ENVIRONMENTAL SENSORS
15/949298	20180220903	US	Published	9653-3TSCT15	3	Offered	Wearable apparatus
11/848,878	8,157,730	US	04/17/12	9653-4	4	Offered	Physiological and Environmental Monitoring Systems and Methods
12/985,830	8,204,786	US	06/19/12	9653-4DV	4	Offered	Physiological and Environmental Monitoring Systems and Methods
13/447,991	8,702,607	US	04/22/14	9653-4CT4	4	Offered	Targeted Advertising Systems and Methods
15/210,154	10,258,243	US	04/16/19	9653-4TSDV2CT2DV	4	Offered	Apparatus, Systems, and Methods for Measuring Environmental Exposure and Physiological Response thereto
15/967,789	10,595,730	US	03/24/20	9653-4TSDV2CT4DV	4	Offered	Physiological Monitoring Methods
14/299,233	11,295,856	US	04/05/22	9653-4TSDV2CT2	4	Offered	Apparatus, system, and methods for measuring environmental exposure and physiological response thereto
14/595,471	20150141772 A1	US	Published	9653.4TSDV2CT4	4	Offered	Physiological Monitoring Methods
12/256,793	8,251,903	US	08/28/12	9653-6	6	Offered	Noninvasive Physiological Analysis Using Excitation-Sensor Modules and Related Devices and Methods
13/554,466	8,512,242	US	08/20/13	9653-6DV	6	Offered	Noninvasive Physiological Analysis Using Excitation-Sensor Modules and Related Devices and Methods
13/552,117	9,044,180	US	06/02/15	9653-6CT	6	Offered	Noninvasive Physiological Analysis Using Excitation-Sensor Modules and Related Devices and Methods
13/566,269	9,808,204	US	11/07/17	9653-6CT2	6	Offered	Noninvasive Physiological Analysis Using Excitation-Sensor Modules and Related Devices and Methods
14/116,642	9,427,191	US	08/30/16	9653-12TS	12	Offered	Apparatus and Methods for Estimating Time-State Physiological Parameters
15/219,770	9,521,962	US	12/20/16	9653-12TSCT	12	Offered	Apparatus and Methods for Estimating Time-State Physiological Parameters
15/369,629	9,788,785	US	10/17/17	9653-12TSCT2	12	Offered	Apparatus and Methods for Estimating Time-State Physiological Parameters
14105924.4	1,192,437	HK	04/06/17	9653-13HK2	13	Offered	Systems and Methods for Variable Filter Adjustment by Heart Rate Metric Feedback
12820308-1657	2,739,207	EP (UK, France, Germany)	07/19/17	9653-13EP	13	Offered	Systems and Methods for Variable Filter Adjustment by Heart Rate Metric Feedback

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Application #	Publication/Patent Number	Country	Date	Seller Family ID	Family ID	Class	Title
14/124,465	9,801,552	US	10/31/17	9653-13TS	13	Offered	Systems and Methods for Variable Filter Adjustment by Heart Rate Metric Feedback
14/370,658	10,390,762	US	08/27/19	6724-013	6274-007	Offered	Physiological metric estimation rise and fall limiting
15/784,960	10,512,403	US	12/24/19	9653-13TSCT	13	Offered	Systems and Methods for Variable Filter Adjustment by Heart Rate Metric Feedback
17111008.8	1236788	HK	Published	9653.13.HK2	13	Offered	Systems and Methods for Variable Filter Adjustment by Heart Rate Metric Feedback
17169569.5	3222210A1	European Patent Office	Published	9653.13.EP2	13	Offered	Systems and Methods for Variable Filter Adjustment by Heart Rate Metric Feedback
16/683,884	20200077899A1	US	Allowed	9653.13TSCT2	13	Offered	SYSTEMS AND METHODS FOR VARIABLE FILTER ADJUSTMENT BY HEART RATE METRIC FEEDBACK
14/370,689	10,349,844	US	07/16/19	6724-014	6274-008	Offered	Reduction of physiological metric error due to inertial cadence
29/403,770	D66616951	US	08/28/12	9653-15	15	Offered	Monitoring Earbud
14/761,510	10,076,253	US	09/18/18	9653-17TS2	17	Offered	Physiological Monitoring Devices Having Sensing Elements Decoupled from Body Motion
14/761,462	10,856,749	US	12/08/20	9653-17TS	17	Offered	Physiological monitoring devices having sensing elements decoupled from body motion
16/238,921	11,266,319	US	03/08/22	9653-17TSCT3	17	Offered	Physiological monitoring devices having sensing elements decoupled from body motion
19132952.3	40009544	HK	Published	9653.17.HKS	17	Offered	Physiological Monitoring Devices Having Sensing Elements Decoupled from Body Motion
201910036179.9	110013239A	CN	Published	9653.17.CN5	17	Offered	Physiological Monitoring Devices Having Sensing Elements Decoupled from Body Motion
201910036198.1A	110013240A	CN	Published	9653.17.CN4	17	Offered	Physiological Monitoring Devices Having Sensing Elements Decoupled from Body Motion
16/999,861	2020037548 2A1	US	Published	9653.17TSCT4	17	Offered	PHYSIOLOGICAL MONITORING DEVICES HAVING SENSING ELEMENTS DECOUPLED FROM BODY MOTION
ZL 201280071447.7	1042030888	CN	09/22/17	6724-017	6274-008	Offered	Reduction of Physiological Metric Error Due to Inertial Cadence
ZL 201480018381.4		CN	02/01/19	9653-17CN2	17	Offered	Physiological Monitoring Devices Having Sensing Elements Decoupled from Body Motion
ZL 201480019033.9		CN	07/12/18	9653-17CN	17	Offered	Physiological Monitoring Devices Having Sensing Elements Decoupled from Body Motion
ZL 201810556676.7		CN	08/10/21	9653-17CN3	17	Offered	Physiological Monitoring Devices Having Sensing Elements Decoupled from Body Motion
15104781.8A	1,204,252	HK	06/15/18	6724-020	6274-008	Offered	Reduction of physiological metric error due to inertial cadence
29/467,146	D736,935	US	08/18/15	9653-21	21	Offered	Biometric Monitor Housing
	2,684,001	EU Community	04/17/15	9653-22	22	Offered	Biometric Monitor
4/655,992	9,993,204	US	06/12/18	6724-022	6724-009	Offered	Cadence detection based on intertial harmonics
29/469,235	D719,860	US	12/23/14	9653-22D5	22	Offered	Biometric Monitor
29/507,012	D733,598	US	07/07/15	9653-22D52	22	Offered	Biometric Monitor
14737554.7A	2,943,753 B	EP (UK, France, Germany)	04/01/20	6724-023	6724-009	Offered	Cadence detection based on intertial harmonics
ZL 201480004411.6	1049690358	CN	03/25/19	6724-024	6724-009	Offered	Method and System for Cadence Detection Based on Inertial Harmonics
16100912.7A	1,212,878 B	HK	02/21/20	6724-025	6724-009	Offered	Cadence detection method and system based on intertial harmonics
15/400,010	10,015,582	US	07/03/18	9653-27CT	27	Offered	Earbud monitoring devices
15/324,139	10,536,768	US	01/14/20	9653-27	27	Offered	Optical Physiological Sensor Modules with Reduced Signal Noise
15/794,728	10,623,849	US	04/14/20	9653-27CT2	27	Offered	Optical monitoring apparatus and methods
16/688,800	11,252,498	US	02/15/22	9653-27DV	27	Offered	Optical physiological monitoring devices
16/688,817	11,252,499	US	02/15/22	9653-27DV2	27	Offered	Optical physiological monitoring devices
16/011,985	11,330,361	US	05/10/22	9653-27CT3	27	Offered	Hearing aid optical monitoring apparatus
15830336.2	3151737A4	European Patent Office	Published	9653.27.EP	27	Offered	Optical Physiological Sensor Modules with Reduced Signal Noise
17105761.7	1232107A1	HK	Published	9653.27.HK	27	Offered	Optical Physiological Sensor Modules with Reduced Signal Noise
17108322.3		HK	Published	9653.27.HKX	27	Offered	Optical Physiological Sensor Modules with Reduced Signal Noise
17150916.9	3199100A1	European Patent Office	Published	9653.27.EPX	27	Offered	Optical Physiological Sensor Modules with Reduced Signal Noise
ZL 201710569898.8	1072601428	CN	10/20/20	6724-031	6274-008	Offered	Reduction of Physiological Metric Error Due to Inertial Cadence
15/554,193	11,000,231	US	05/11/21	9653-32X2	32	Offered	Optical adapters for wearable monitoring devices
15/554,171	11,033,231	US	06/15/21	9653-32X	32	Offered	Stabilized monitoring devices
15/554,158	11,197,636	US	12/14/21	9653-32	32	Offered	Stabilized sensor modules and monitoring devices incorporating same
15/661,220	11,350,884	US	06/07/22	6724-032	6274-007	Offered	Physiological Metric Estimation Rise and Fall Limiting

Application #	Publication/Patent Number	Country	Date	Seller Family ID	Family ID	Class	Title
16759275.7	16759275.7	European Patent Office	Published	9653.32X.EP	32	Offered	Stabilized Monitoring Devices
18102476.9	18102476.9	HK	Published	9653.32X.HK	32	Offered	Stabilized Monitoring Devices
17/520,156	20220054086	US	Published	9653.32DV	32	Offered	STABILIZED SENSOR MODULES AND MONITORING DEVICES INCORPORATING SAME
18101743.8	1,250,210	HK	03/26/21	6724-033	6274-008	Offered	Reduction of physiological metric error due to inertial cadence
15/744,642	11,058,304	US	07/13/21	9653-33	33	Offered	Methods of controlling biometric parameters via musical audio
17/347,293	2021029861 4A1	US	Published	9653.33CT	33	Offered	METHODS OF DETERMINING VENTILATORY THRESHOLD
15/751,733	10,856,812	US	12/08/20	9653-34	34	Offered	Methods and apparatus for detecting motion via optomechanics
15/958,113	11,363,987	US	06/21/22	6724-034	6724-009	Offered	Cadence Detection Based on Inertial Harmonics
18108096.6	1248497A1	HK	Published	9653.34.HK	34	Offered	Methods and Apparatus for Detecting Motion Via Optomechanics
21181292.0A	3918979A3	European Patent Office	Published	9653.34.EP2	34	Offered	Methods and Apparatus for Detecting Motion Via Optomechanics
42022049994.1	40058788 A	HK	Published	9653.34.HK2	34	Offered	Methods and Apparatus for Detecting Motion Via Optomechanics
201680047372.7A	108348154A	China	Published	9653.34.CN	34	Offered	Methods and Apparatus for Detecting Motion Via Optomechanics
16/995,127	2020037554 7A1	US	Published	9653.34CT	34	Offered	METHODS AND APPARATUS FOR DETECTING MOTION VIA OPTOMECHANICS
16835810.9A	3,310,252	EP (UK, France, Germany)	09/22/21	9653-34EP	34	Offered	Methods and apparatus for detecting motion via optomechanics
15/299,684	10,610,158	US	04/07/20	9653-36	36	Offered	Physiological monitoring devices and methods that identify subject activity type
15/922,610	10,945,618	US	03/16/21	9653.36IP	36	Offered	Physiological monitoring devices and methods for noise reduction in physiological signals based on subject activity type
18771241.9	3600013A1	European Patent Office	Published	9653.36IP.EP	36	Offered	PHYSIOLOGICAL MONITORING DEVICES AND METHODS FOR NOISE REDUCTION IN PHYSIOLOGICAL SIGNALS BASED ON SUBJECT ACTIVITY TYPE
62020010716.2	40020699	HK	Published	9653.36IP.HK	36	Offered	PHYSIOLOGICAL MONITORING DEVICES AND METHODS FOR NOISE REDUCTION IN PHYSIOLOGICAL SIGNALS BASED ON SUBJECT ACTIVITY TYPE
17/175,928	20210161415A1	US	Published	9653.36IPCT	36	Offered	PHYSIOLOGICAL MONITORING DEVICES AND METHODS FORE NOISE REDUCTION IN PHYSIOLOGICAL SIGNALS BASED ON SUBJECT ACTIVITY TYPE
16/146,362	10,542,896	US	01/28/20	6724-037	6274-008	Offered	Reduction of Physiological Metric Error Due to Inertial Cadence
15/643,965	10,966,662	US	04/06/21	9653-42	42	Offered	Motion-dependent averaging for physiological metric estimating systems and methods
16/694,402	10,631,740	US	04/28/20	6724-044	6274-008	Offered	Reduction of physiological metric due to intertial cadence
18897763.1	3706618A4	European Patent Office	Published	9653.47.EP	47	Offered	METHODS OF DETERMINING PHYSIOLOGICAL INFORMATION BASED ON BAYESIAN PEAK SELECTION AND MONITORING DEVICES INCORPORATING THE SAME
62021026087.8	40038004	HK	Published	9653.47.HK	47	Offered	METHODS OF DETERMINING PHYSIOLOGICAL INFORMATION BASED ON BAYESIAN PEAK SELECTION AND MONITORING DEVICES INCORPORATING THE SAME
16/958,112	20200342996	US	Published	9653.47	47	Offered	METHODS OF DETERMINING PHYSIOLOGICAL INFORMATION BASED ON BAYESIAN PEAK SELECTION AND MONITORING DEVICES INCORPORATING THE SAME
16/964,941	20210038161	US	Published	9653.49	49	Offered	EAR GEL MODULES AND EARPIECE MONITORING DEVICES INCORPORATING SAME
17/057,931	20210298619	US	Published	9653.50	50	Offered	Biometric Sensor Head Assembly
17/268,026	20210168539	US	Published	9653.51	51	Offered	HEARING AID DEVICE WITH BIOMETRIC SENSOR
17/427,459	20220159361	US	Pending	9653.52	52	Offered	RINGED-SHAPED BIOMETRIC EARPIECE
20767417.7	3911231A1	European Patent Office	Published	9653.54.EP	54	Offered	OPTICAL SENSOR MODULES WITH SELECTIVE OPTICAL PATHWAYS
62022047813.0	40059459	HK	Pending	9653.54.HK	54	Offered	OPTICAL SENSOR MODULES WITH SELECTIVE OPTICAL PATHWAYS
17/434,854	2022014249 4A1	US	Published	9653.54	54	Offered	OPTICAL SENSOR MODULES WITH SELECTIVE OPTICAL PATHWAYS
20848515.1	3941344A1	European Patent Office	Published	9653.55.EP	55	Offered	METHODS AND APPARATUS FOR DYNAMICALLY IDENTIFYING AND SELECTING THE BEST PHOTOPLETHYSMOGRAPHY SENSOR CHANNEL DURING MONITORING
62022051182.3	40063474	HK	Pending	9653.55.HK	55	Offered	METHODS AND APPARATUS FOR DYNAMICALLY IDENTIFYING AND SELECTING THE BEST PHOTOPLETHYSMOGRAPHY SENSOR CHANNEL DURING MONITORING
17/607,516		US	Pending	9653.55	55	Offered	METHODS AND APPARATUS FOR DYNAMICALLY IDENTIFYING AND SELECTING THE BEST PHOTOPLETHYSMOGRAPHY SENSOR CHANNEL DURING MONITORING

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Application #	Publication/Patent Number	Country	Date	Seller Family ID	Family ID	Class	Title
29/708,364		US	Pending	9653.56DS	56	Offered	LIGHT TRANSMISSIVE LENS AND FRAME FOR BIOMETRIC SENSOR MODULE
2014552207A	6,116,017	JP	03/31/17	6724-015	6274-008	Offered	Reduction of physiological metric error due to inertial cadence
15/318,449	11,129,572	US	09/28/21	9653-28	28a	Offered	Physiological monitoring devices with adjustable stability
17103922.8	1230051	HK	Published	9653.28.HK	28a	Offered	Physiological Monitoring Devices with Adjustable Stability
21189243.5	3954281A1	European Patent Office	Published	9653.28.EP2	28a	Offered	Physiological Monitoring Devices with Adjustable Stability
42022048945.4	40058689	HK	Published	9653.28.HK2	28a	Offered	Physiological Monitoring Devices with Adjustable Stability
17/487,849	20220015707A1	US	Published	9653.28CT	28a	Offered	Physiological Monitoring Devices with Adjustable Stability
17103940.6	1,230,053	HK	03/26/21	9653-29HK	29a	Offered	Physiological monitoring devices
14/807,061	9,538,921	US	01/10/17	9653-29	29a	Offered	Physiological Monitoring Devices with Adjustable Signal Analysis and Interrogation Power and Monitoring Methods Using Same
15/369,946	10,893,835	US	01/19/21	9653-29DV	29a	Offered	Physiological monitoring devices with adjustable signal analysis and interrogation power and monitoring methods using same
16/545,637	11,179,108	US	11/23/21	9653-29XCT4	29a	Offered	Physiologcial monitoring devices and methods using optical sensors
16/503,191	11,185,290	US	11/30/21	9653-29XCT	29a	Offered	Physiologcial monitoring devices and methods using optical sensors
16/526,700	11,337,655	US	05/24/22	9653-29XCT3	29a	Offered	Physiological monitoring devices and methods using optical sensors
20185366.0A	3744237A1	European Patent Office	Published	9653.29.EP2	29a	Offered	Physiological Monitoring Devices with Adjustable Signal Analysis and Interrogation Power and Monitoring Methods Using Same
21151461.7	3841966A1	European Patent Office	Published	9653.29.EPX2	29a	Offered	Physiological Monitoring Devices and Methods Using Optical Sensors
42021030461.4	40039854	HK	Published	9653.29.HK2	29a	Offered	Physiological Monitoring Devices with Adjustable Signal Analysis and Interrogation Power and Monitoring Methods Using Same
16/517,073	20190336081A1	US	Allowed	9653.29XCT2	29a	Offered	Physiological Monitoring Devices and Methods Using Optical Sensors
16/561,552	20200214641A1	US	Published	9653.29XCT5	29a	Offered	Physiological Monitoring Devices and Methods Using Optical Sensors
16/824,235	20200214641A1	US	Published	9653.29XCT6	29a	Offered	Physiological Monitoring Devices and Methods Using Optical Sensors
17/085,545	20210045693A1	US	Published	9653.29DV2	29a	Offered	Physiological Monitoring Devices with Adjustable Signal Analysis and Interrogation Power and Monitoring Methods Using Same
17/737,727		US	Pending	9653.29XCT3CT	29a	Offered	Physiological Monitoring Devices and Methods Using Optical Sensors
15827188.2A	3,139,823 B1	EP (UK, France, Germany)	11/04/20	9653-29EP	29a	Offered	Physiological monitoring device
15826541.3A	3,157,412B1	EP (UK, France, Germany)	03/03/21	9653-29EPX	29a	Offered	PHYSIOLOGICAL MONITORING DEVICES AND METHODS USING OPTICAL SENSORS
17105762.6	1,233,881	HK	08/13/21	9653-29HKX	29a	Offered	Physiologcial monitoring devices and methods using optical sensors
14/829,032	9,794,653	US	10/17/17	9653-30	30a	Offered	Methods and Apparatus for Improving Signal Quality in Wearable Biometric Monitoring Devices
15/670,554	10,382,839	US	08/13/19	9653-30DV	30a	Offered	Methods for improving signal quality in wearable biometric monitoring devices
16/443,326	10,506,310	US	12/10/19	9653-30DVCT	30a	Offered	Wearable Biometric Monitoring Devices and Methods for Determining Signal Quality in Wearable Biometric Monitoring Devices
16/444,867	10,779,062	US	09/15/20	9653-30DVCT2	30a	Offered	Wearable biometric monitoring devices and methods for determining if wearable biometric monitoring devices are being worn
16/439,985	10,798,471	US	10/06/20	9653-30DV2	30a	Offered	Methods of improving signal quality in wearable biometric monitoring devices
16/453,769	10,834,483	US	11/10/20	9653-30DVCT3	30a	Offered	Wearable biometric monitoring devices and methods for determining if wearable biometric monitoring devices are being worn
17111971.1	1237631	HK	Published	9653.30.HK	30a	Offered	Methods and Apparatus for Improving Signal Quality in Wearable Biometric Monitoring Devices
20199932.3	3,804,612A1	European Patent Office	Published	9653.30.EP2	30a	Offered	Methods and Apparatus for Improving Signal Quality in Wearable Biometric Monitoring Devices
15844956.1	3,171,767	EP (UK, France, Germany)	07/07/21	9653-30EP	30a	Offered	Methods and apparatus for improving signal quality in wearable biometric monitoring devices