DETAILED ACTION

1. The present application is being examined under the pre-AIA first to invent provisions.

Election/Restrictions

2. This application is in condition for allowance except for the presence of claims 24-28 are directed to an invention non-elected without traverse. Accordingly, claims 24-28 have been cancelled.

Allowable Subject Matter

3. Claims 29-36, 39-40, 42 and 44-54 are allowed.

EXAMINER'S AMENDMENT

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

5. The application has been amended as follows: Claims 24-28 are cancelled.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alyssa M. Alter whose telephone number is (571)272-4939. The examiner can normally be reached on M-F 7am to 3:30pm.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Niketa Patel can be reached on (571) 272-4156. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Alyssa M Alter/
Primary Examiner
Art Unit 3762

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14136658	LIN ET AL.
	Examiner	Art Unit
	ALYSSA M ALTER	3762

CPC- SEARCHED		
Symbol	Date	Examiner
A 61 B 5/02438	6/15/2015	ama
A 61 B 5/0245	6/15/2015	ama
A 61 B 5/404	6/15/2015	ama

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
607	36	6/15/2015	ama
600	509	6/15/2015	ama

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

SEARCH NOTES		
Search Notes	Date	Examiner
Please see EAST search history	6/15/2015	ama
Conducted an inventor search	6/15/2015	ama
Referenced the search performed in the parent application 12/358,905	6/15/2015	ama
Conducted an updated search	2/25/2016	ama

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

AliveCor Exhibit 1002
AliveCor, Inc. v. Apple Inc.
IPR2024-00169, U.S. Patent No. 10,076,257

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14136658	LIN ET AL.
	Examiner	**Art Unit**
	ALYSSA M ALTER	3762

CPC						
Symbol					**Type**	**Version**
A61B		5	/	04012	F	2013-01-01
A61B		5	/	02438	I	2013-01-01
A61B		5	/	0245	I	2013-01-01
A61B		5	/	0404	I	2013-01-01
A61B		2560	/	0468	A	2013-01-01
A61B		5	/	04085	I	2013-01-01
A61B		5	/	044	I	2013-01-01
A61B		5	/	6898	I	2013-01-01
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CPC Combination Sets							
Symbol					**Type**	**Set**	**Ranking**	**Version**
			/					
			/					

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	23	
/ALYSSA M ALTER/ Primary Examiner.Art Unit 3762	4/30/2018	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14136658	LIN ET AL.
	Examiner	**Art Unit**
	ALYSSA M ALTER	3762

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION										
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED					
		A	6	1	B	5 / 117 (2016.01.01)						
CROSS REFERENCE(S)												
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)											

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	23	
/ALYSSA M ALTER/ Primary Examiner.Art Unit 3762	4/30/2018	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

AliveCor Exhibit 1002
AliveCor, Inc. v. Apple Inc.
IPR2024-00169, U.S. Patent No. 10,076,257

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14136658	LIN ET AL.
	Examiner	**Art Unit**
	ALYSSA M ALTER	3762

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☒ T.D. ☐ R.1.47

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	29	21	49												
2	30	22	50												
3	31	23	51												
4	32	13	52												
5	33	14	53												
6	34	15	54												
7	35														
8	36														
10	39														
19	40														
20	42														
11	44														
12	45														
16	46														
17	47														
18	48														

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	23	
/ALYSSA M ALTER/ Primary Examiner.Art Unit 3762	4/30/2018	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors	:	Gloria Lin et al.
Application No.	:	14/136,658 Confirmation No.: 2657
Filed	:	December 20, 2013
For	:	SEAMLESSLY EMBEDDED HEART RATE MONITOR
Art Unit	:	3762
Examiner	:	Alyssa Margo Alter Morschauser

New York, New York 10013
January 15, 2018

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

REPLY TO NON-FINAL OFFICE ACTION

Sir:

This is in response to the Non-Final Office Action mailed September 14, 2017 (hereinafter "the Office Action"). Applicant hereby responds as follows:

A Listing of Claims begins on page 2 of this paper; and

Remarks begin on page 9 of this paper.

Listing of Claims:

1. - 23. (Cancelled)

24. (Withdrawn) An electronic device comprising:

a bezel, wherein an outer surface of at least a portion of the bezel comprises a first visual characteristic; and

a heart sensor coupled to the at least a portion of the bezel and operative to detect a user's cardiac signal, wherein an outer surface of the heart sensor comprises a second visual characteristic that matches the first visual characteristic.

25. (Withdrawn) The electronic device of claim 24, wherein each of the outer surface of the at least a portion of the bezel and the outer surface of the heart sensor comprises a portion of an outer surface of the electronic device.

26. (Withdrawn) The electronic device of claim 24, wherein:

the outer surface of the at least a portion of the bezel comprises a first finish; and

the outer surface of the heart sensor comprises a second finish that matches the first finish.

27. (Withdrawn) The electronic device of claim 24, wherein the outer surface of the heart sensor comprises a conductive coating that provides the second visual characteristic.

28. (Withdrawn) The electronic device of claim 24, wherein each of the first visual characteristic and the second visual characteristic comprises at least one of:

a particular color;

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a particular tone; and

a particular reflectivity.

29. (Previously Presented) An electronic device for detecting a user's cardiac signal, comprising:

an enclosure;

a heart sensor configured to detect the user's cardiac signal, the heart sensor comprising:

a first lead comprising a first pad that is embedded in a first portion of the enclosure, wherein an exterior surface of the enclosure comprises an exterior surface of the first portion, wherein the first pad is positioned underneath the exterior surface of the first portion, and wherein the first pad is configured to detect a first electrical signal of the user's cardiac signal via the user's skin's contact with the exterior surface of the first portion of the enclosure; and

a second lead comprising a second pad that is embedded in a second portion of the enclosure, wherein the second pad is configured to detect a second electrical signal of the user's cardiac signal via the user's skin's contact with at least one of the second pad and the second portion of the enclosure; and

a processor coupled to the heart sensor and configured to receive and process the detected cardiac signal, wherein the first lead further comprises a first connector coupled to the first pad and configured to provide the first electrical signal detected by the first pad to the processor, and wherein the second lead further comprises a second connector coupled to the second pad and configured to provide the second electrical signal detected by the second pad to the processor.

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30. (Previously Presented) The electronic device of claim 29, wherein the first portion and the second portion are located on opposite sides of the electronic device.

31. (Previously Presented) The electronic device of claim 29, wherein the first portion is electrically isolated from the second portion.

32. (Previously Presented) The electronic device of claim 29, wherein:

the first portion is separated from the second portion by a third portion of the enclosure;

at least the third portion is constructed from a material having a first conductivity; and

the first conductivity is insufficient to transmit the first electrical signal from the first pad to the second pad via the third portion.

33. (Previously Presented) The electronic device of claim 32, wherein:

the material having the first conductivity comprises one of aluminum and steel; and

the second pad is constructed from a silver based compound.

34. (Previously Presented) The electronic device of claim 32, wherein:

the exterior surface of the enclosure further comprises an exterior surface of the second portion;

the second pad is configured to detect the second electrical signal of the user's cardiac signal via the user's contact

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with the exterior surface of the second portion;

the second pad is positioned from the exterior surface of the second portion by a thickness of the second portion;

at least the thickness of the second portion is constructed from material having a second conductivity; and

the second conductivity is defined such that the second electrical signal is not able to be transmitted through material having the second conductivity over a distance larger than the thickness of the second portion.

35. (Previously Presented) The electronic device of claim 34, wherein the first pad and the second pad are positioned apart from one another at a distance larger than the thickness of the second portion by material having the second conductivity.

36. (Previously Presented) The electronic device of claim 29, wherein:

the enclosure further comprises at least one pocket underneath the exterior surface of the enclosure; and

at least one of the first pad and the second pad is placed within the at least one pocket.

37. (Cancelled)

38. (Cancelled)

39. (Previously Presented) The electronic device of claim 29, further comprising:

a display, wherein the enclosure supports the display, and wherein at least a portion of the exterior surface of the enclosure forms at least a portion of an exterior surface of the

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electronic device behind the display; and

a third lead embedded with the display, wherein the third lead is configured to detect a third electrical signal of the user's cardiac signal via the user's contact with at least one of the third lead and the display.

40. (Previously Presented) An electronic device for detecting a user's cardiac signal, comprising:

an enclosure;

a display screen exposed to the user through an opening in the enclosure;

a heart sensor configured to detect the user's cardiac signal, the heart sensor comprising:

a first lead embedded in a first portion of the enclosure of the electronic device, wherein the first lead is configured to detect a first electrical signal of the user's cardiac signal via the user's contact with at least one of the first lead and the first portion of the enclosure of the electronic device; and

a second lead embedded in the display screen of the electronic device, wherein the second lead is configured to detect a second electrical signal of the user's cardiac signal via the user's contact with at least one of the second lead and the display screen of the electronic device; and

a processor coupled to the heart sensor and configured to process the first and second electrical signals of the user's cardiac signal.

41. (Cancelled)

42. (Previously Presented) The electronic device of claim 40, wherein:

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the first portion of the electronic device comprises a bezel of the enclosure;

the electronic device further comprises a non-conductive component positioned between the bezel and the display screen for electrically isolating the first lead from the second lead.

43. (Cancelled)

44. (Previously Presented) The electronic device of claim 29, wherein the second lead is configured to detect the second electrical signal of the user's cardiac signal via the user's contact with the second portion of the enclosure.

45. (Previously Presented) The electronic device of claim 29, wherein the second lead is configured to detect the second electrical signal of the user's cardiac signal via the user's contact with the second lead.

46. (Previously Presented) The electronic device of claim 40, wherein the first lead is configured to detect the first electrical signal of the user's cardiac signal via the user's contact with the first lead.

47. (Previously Presented) The electronic device of claim 46, wherein the second lead is configured to detect the second electrical signal of the user's cardiac signal via the user's contact with the second lead.

48. (Previously Presented) The electronic device of claim 46, wherein the second lead is configured to detect the second

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electrical signal of the user's cardiac signal via the user's contact with the display screen.

49. (Previously Presented) The electronic device of claim 40, wherein the first lead is configured to detect the first electrical signal of the user's cardiac signal via the user's contact with the first portion of the enclosure.

50. (Previously Presented) The electronic device of claim 49, wherein the second lead is configured to detect the second electrical signal of the user's cardiac signal via the user's contact with the second lead.

51. (Previously Presented) The electronic device of claim 49, wherein the second lead is configured to detect the second electrical signal of the user's cardiac signal via the user's contact with the display screen.

52. (Previously Presented) The electronic device of claim 29, wherein the first portion of the enclosure is a bezel.

53. (Previously Presented) The electronic device of claim 29, wherein the second portion of the enclosure is a bezel.

54. (Previously Presented) The electronic device of claim 29, wherein an interior surface of the enclosure comprises an interior surface of the first portion, wherein the first pad is positioned on the interior surface of the first portion.

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REMARKS

Introduction

Claims 1-23, 37, 38, 41, and 43 have been cancelled without prejudice. Applicant hereby reserves the right to pursue the subject matter of any cancelled claims in one or more continuation applications. Claims 24-28 have been withdrawn without prejudice. Claims 29-36, 39, 40, 42, and 44-54 are also currently pending in the above-identified patent application. No new subject matter has been introduced and all amendments are fully supported by the application as originally filed.

Claims 29-36 and 40[1] have been rejected under 35 U.S.C. § 102 as allegedly being anticipated by Weiss U.S. Patent No. 5,623,926 (hereinafter "Weiss").

A one-month extension of time in which to respond to the Non-Final Office Action mailed September 14, 2017 is respectfully requested. The required fee is being paid by credit card, but the Director is authorized to charge any underpayment or to credit any overpayment to Deposit Account No. 50-6007.

Reconsideration and allowance of this application in light of the following remarks is hereby respectfully requested.

The Rejections Under 35 U.S.C. § 102

Claims 29-36

Claims 29-36 have been rejected under 35 U.S.C. § 102 as allegedly being anticipated by Weiss. These rejections are respectfully traversed.

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[1] Applicant respectfully notes that none of applicant's claims 39, 42, and 44-54 are referenced in the Office Action. Therefore, applicant assumes that each one of applicant's claims 39, 42, and 44-54 are dependent upon a rejected base claim but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Confirmation by the Examiner of this assumption is respectfully requested.

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Applicant's independent claim 29 defines an electronic device for detecting a user's cardiac signal, including an enclosure, a heart sensor configured to detect the user's cardiac signal, and a processor coupled to the heart sensor. The heart sensor includes a first lead including a first pad that is embedded in a first portion of the enclosure, wherein an exterior surface of the enclosure includes an exterior surface of the first portion, wherein the first pad is positioned underneath the exterior surface of the first portion, and wherein the first pad is configured to detect a first electrical signal of the user's cardiac signal via the user's skin's contact with the exterior surface of the first portion of the enclosure. The heart sensor also includes a second lead including a second pad that is embedded in a second portion of the enclosure, wherein the second pad is configured to detect a second electrical signal of the user's cardiac signal via the user's skin's contact with at least one of the second pad and the second portion of the enclosure. The processor is configured to receive and process the detected cardiac signal, wherein the first lead further includes a first connector coupled to the first pad and configured to provide the first electrical signal detected by the first pad to the processor, and wherein the second lead further includes a second connector coupled to the second pad and configured to provide the second electrical signal detected by the second pad to the processor.

For example, "[h]eart sensor 112 can include one or more leads connected to the exterior of the electronic device such that the user may contact one or more of the leads to provide an electrical signal associated with the user's heart to heart sensor 112," and "[t]he cardiac signals detected by the heart sensor leads can be coupled to a processor incorporated in heart sensor 112, or instead provided to processor 102," where "[t]he processor may then analyze the received signals and generate, from the received

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signals, one or more characteristic quantities of the user's heartbeat or heart rate for authentication" (applicant's specification, paragraph [0033]). The "size and location of the leads can be selected to ensure that sufficient contact is made between the user (e.g., the user's hand or finger) and the leads for cardiac signals to be detected," where "each lead can include a pad or extended area placed on the outer or inner surface of an electronic device bezel or housing" or "an entire portion of the electronic device enclosure (e.g., a portion of a bezel or housing) can serve as a lead for the heart sensor," and the "pad or extended area can then be coupled to a wire or other connector for providing cardiac signals to a processor for processing" (applicant's specification, paragraph [0034]), such as leads 322 and 324 of FIG. 3. As a specific example, with respect to applicant's FIG. 4B, an enclosure of electronic device 450 may include a bezel 460, where, "[i]f the electrical conductivity and size of bezel 460, and the strength or characteristics of the cardiac signal provided by the user and detected by the heart sensor are adapted such that the signal can be transmitted along short distances in bezel 460, lead 472 of the heart sensor can be positioned against the back surface of bezel 460," or "lead 472 can be placed within the thickness of bezel 460 (e.g., in a pocket within the bezel wall), but underneath the outer surface of the bezel," where a "short thickness of bezel 460 can allow electrical signals to propagate from the user to the outer surface of bezel 460, through bezel 460, and into lead 472, which may in turn transmit the signals to a processor using connector 474" (applicant's specification, paragraph [0047]).

Weiss is directed towards an ECG monitor 16 that includes a bottom case 14 of a housing, where an LCD display is provided at an opposite case (i.e., a top case) of the housing. Weiss' ECG monitor 16 also includes a swing arm assembly 10 rotatably mounted on

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the bottom case 14, where sensing electrodes 12 are mounted on the swing arm assembly 10 to allow for variable positioning of the sensing electrodes 12 relative to the display when the swing arm assembly 10 rotates with respect to the bottom case 14.

Nowhere does Weiss show or suggest an electronic device with an enclosure and a heart sensor with "a first pad [that is] embedded in a first portion of the enclosure" and a "second pad [that is] embedded in a second portion of the enclosure," where "an exterior surface of the enclosure comprises an exterior surface of the first portion, wherein the first pad is positioned underneath the exterior surface of the first portion, and wherein the first pad is configured to detect a first electrical signal of the user's cardiac signal via the user's skin's contact with the exterior surface of the first portion of the enclosure," as required by applicant's independent claim 29. That is, nowhere does Weiss show or suggest that any electrode 12 is embedded in any portion of case 14 of the housing of ECG monitor 16 or in any portion of swing arm assembly 10 of ECG monitor 16, let alone show or suggest that any electrode 12 is "positioned underneath [an] exterior surface of" a portion of case 14 or swing arm assembly 10 such that the electrode 12 is "configured to detect a first electrical signal of [a] user's cardiac signal via the user's skin's contact with [such an] exterior surface" of case 14 or swing arm assembly 10. Instead, each one of Weiss' electrodes 12 is "mounted on" swing arm assembly 10 (Weiss, column 1, line 54), where an outermost piece 46 of each one of Weiss' electrodes 12 "contacts the skin" of the user (Weiss, column 3, line 7).

For at least these reasons, applicant respectfully submits that applicant's independent claim 29 and all claims dependent therefrom, including claims 30-36, 39, 44, 45, and 52-54, are allowable over Weiss. Therefore, applicant respectfully requests

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that the rejections of claims 29-36 under 35 U.S.C. § 102 be withdrawn.

Claim 40

Claim 40 has been rejected under 35 U.S.C. § 102 as allegedly being anticipated by Weiss. This rejection is respectfully traversed.

Applicant's independent claim 40 defines an electronic device for detecting a user's cardiac signal, including an enclosure, a display screen exposed to the user through an opening in the enclosure, a heart sensor configured to detect the user's cardiac signal, and a processor coupled to the heart sensor. The heart sensor includes a first lead embedded in a first portion of the enclosure of the electronic device, wherein the first portion of the electronic device comprises an enclosure of the electronic device, wherein the first lead is configured to detect a first electrical signal of the user's cardiac signal via the user's contact with at least one of the first lead and the first portion of the enclosure of the electronic device. The heart sensor also includes a second lead embedded in the display screen of the electronic device, wherein the second lead is configured to detect a second electrical signal of the user's cardiac signal via the user's contact with at least one of the second lead and the display screen of the electronic device. The processor is configured to process the first and second electrical signals of the user's cardiac signal.

For example, as shown in applicant's FIG. 3, "electronic device 300 can include additional lead 326 embedded in or behind display 302," where "[l]ead 326 can be operative to detect a user's heart activity as the user moves a finger across display 302," and, "[u]sing lead 326, the electronic device can detect an electrical signal from a different portion of the user's body (e.g., leads 322

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and 324 detect signals through a first hand, and lead 326 detects signals through the second hand), which can provide the processor with additional information for determining characteristics of the user's cardiac activity" (applicant's specification, paragraph [0043]).

Weiss is directed towards an ECG monitor 16 that includes a bottom case 14 of a housing, where an LCD display is provided at an opposite case (i.e., a top case) of the housing. Weiss' ECG monitor 16 also includes a swing arm assembly 10 rotatably mounted on the bottom case 14, where sensing electrodes 12 are mounted on the swing arm assembly 10 to allow for variable positioning of the sensing electrodes 12 relative to the display when the swing arm assembly 10 rotates with respect to the bottom case 14.

Nowhere does Weiss show or suggest an electronic device with a heart sensor that includes "a first lead embedded in a first portion of [an] enclosure of the electronic device," as well as "a second lead embedded in [a] display screen [exposed to the user through an opening in the enclosure] of the electronic device, wherein the second lead is configured to detect a second electrical signal of the user's cardiac signal via the user's contact with at least one of the second lead and the display screen of the electronic device," as required by applicant's independent claim 40. That is, nowhere does Weiss show or suggest that a first one of electrodes 12 is embedded in case 14 or swing arm assembly 10 and that a second one of electrodes 12 is embedded in a display screen exposed to a user through an opening in case 14 or swing arm assembly 10. In fact, nowhere does Weiss show or suggest that any electrode 12 is "embedded in the display screen" of ECG monitor 16, let alone show or suggest that such an electrode 12 is configured to "detect a second electrical signal of the user's cardiac signal" via the user's contact with at least one of such an electrode 12 and the display

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screen. In fact, Weiss teaches away from such an electronic device of applicant's independent claim 40, as Weiss provides each sensing electrode 12 on swing assembly 10 that "allows for variable positioning of the sensing electrodes relative to the display" of ECG monitor 16 (Weiss, column 1, lines 25-27).

For at least these reasons, applicant respectfully submits that applicant's independent claim 40 and all claims dependent therefrom, including claims 42 and 46-51, are allowable. Therefore, applicant respectfully requests that the rejection of claim 40 under 35 U.S.C. § 102 be withdrawn.

Conclusion

In view of the foregoing, applicant respectfully submits that claims 29-36, 39, 40, 42, and 44-54 are allowable. This application is therefore in condition for allowance. Reconsideration and prompt allowance of this application are respectfully requested.

Respectfully submitted,

Date: January 15, 2018

/Jeffrey C. Aldridge/
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Electronic Patent Application Fee Transmittal

Application Number:	14136658
Filing Date:	20-Dec-2013
Title of Invention:	SEAMLESSLY EMBEDDED HEART RATE MONITOR
First Named Inventor/Applicant Name:	Gloria Lin
Filer:	Jeffrey Charles Aldridge/Daniel Harris
Attorney Docket Number:	P7276USC1

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension - 1 month with $0 paid	1251	1	200	200
Miscellaneous:				
			Total in USD ($)	**200**

Electronic Acknowledgement Receipt

EFS ID:	31501964
Application Number:	14136658
International Application Number:	
Confirmation Number:	2657
Title of Invention:	SEAMLESSLY EMBEDDED HEART RATE MONITOR
First Named Inventor/Applicant Name:	Gloria Lin
Customer Number:	111349
Filer:	Jeffrey Charles Aldridge/Daniel Harris
Filer Authorized By:	Jeffrey Charles Aldridge
Attorney Docket Number:	P7276USC1
Receipt Date:	15-JAN-2018
Filing Date:	20-DEC-2013
Time Stamp:	15:42:52
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$200
RAM confirmation Number	011618INTEFSW15431800
Deposit Account	506007
Authorized User	Rachael Jung

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

37 CFR 1.16 (National application filing, search, and examination fees)

37 CFR 1.17 (Patent application and reexamination processing fees)

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37 CFR 1.19 (Document supply fees)

37 CFR 1.20 (Post Issuance fees)

37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		2018-01-15_P7276USC1-Resp-OA.pdf	73766 e6fa748b8e0dc6577fdf9ce55f319de01218e531	yes	15
	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Amendment/Req. Reconsideration-After Non-Final Reject		1	1	
	Claims		2	8	
	Applicant Arguments/Remarks Made in an Amendment		9	15	
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30801 976822cb8257181efd63374a6cf0ed5ae915ccec	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	104567		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/136,658	12/20/2013	Gloria Lin	P7276USC1	2657

111349 7590 09/14/2017

Van Court & Aldridge LLP
Apple Inc.
154 Grand St.
New York, NY 10013

EXAMINER
ALTER MORSCHAUSER, ALYSSA MARGO

ART UNIT	PAPER NUMBER
3762	

NOTIFICATION DATE	DELIVERY MODE
09/14/2017	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docket@vcaiplaw.com
jaldridge@vcaiplaw.com
avancourt@vcaiplaw.com

Office Action Summary	Application No. 14/136,658	Applicant(s) LIN ET AL.	
	Examiner Alyssa M. Alter	Art Unit 3762	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *4 September 2016*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☐ Claim(s) _____ is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☐ Claim(s) _____ is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.

4) ☐ Other: _____.

AliveCor Exhibit 1002
AliveCor, Inc. v. Apple Inc.
IPR2024-00169, U.S. Patent No. 10,076,257

DETAILED ACTION

The present application is being examined under the pre-AIA first to invent provisions.

Claim Rejections - 35 USC § 102

1. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

2. The following is a quotation of the appropriate paragraphs of pre-AIA 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 29 and 40 are rejected under pre-AIA 35 U.S.C. 102(b) as being anticipated by Weiss (US 5,623,926).

4. As to claims 29 and 40, Weiss discloses a handheld electrocardiogram monitor enclosure with a swing arm assembly which allows for variable positioning of the sensing electrodes relative to the display, resulting in a configuration more beneficial to the desired function of the device. Furthermore, the shape of the swing arm assembly accommodates the human anatomy by allowing the sensing electrodes to contact the skin surface around curved surfaces. More specifically, the swing arm rotates with respect to the main case so that the user of the device can manipulate the viewing

angle for ease in reading the LCD display. The swing arm is held fixed in its rotational position to some degree by means of a friction clutch (col. 1, lines 24-40).

5. Additionally, Weiss discloses "the electrodes are connected to internal circuitry within the ECG monitor by means of three conductors 50, i.e., one for each electrode, which are preferably miniature coaxial cable. Slots 52 are provided in the side walls of the swing arm chassis for the coaxial cables and for input resistors 54 connected on the electrode end of each coaxial cable. The cables are routed from the resistors through the slots provided in the swing arm and then through the centers of the standoff/pivot screw assemblies, which are made hollow for this purpose. The coaxial cables are terminated in connectors 56 on a circuit board (not shown) within the ECG monitor. The coaxial cables are hidden with cover plates 58 which are preferably solvent bonded to the outside on both sides of the chassis" (col. 3, lines 14-28).

6. As to claims 30-32 and 34-36, see figures of Weiss.

7. As to claim 33, Weiss discloses aluminum material (e.g., col. 2, lines 16-19).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alyssa M. Alter whose telephone number is (571)272-4939. The examiner can normally be reached on M-F 7am to 3:30pm.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Niketa Patel can be reached on (571) 272-4156. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Alyssa M Alter/
Primary Examiner
Art Unit 3762

8.

Notice of References Cited	Application/Control No. 14/136,658	Applicant(s)/Patent Under Reexamination LIN ET AL.	
	Examiner Alyssa M. Alter	Art Unit 3762	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
	A	US-				
	B	US-				
	C	US-				
	D	US-				
	E	US-				
	F	US-				
	G	US-				
	H	US-				
	I	US-				
	J	US-				
	K	US-				
	L	US-				
	M	US-				

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

AliveCor Exhibit 1002
AliveCor, Inc. v. Apple Inc.
IPR2024-00169, U.S. Patent No. 10,076,257
65 of 363

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14136658	LIN ET AL.
	Examiner	Art Unit
	ALYSSA M ALTER	3762

CPC- SEARCHED		
Symbol	Date	Examiner
A 61 B 5/02438	6/15/2015	ama
A 61 B 5/0245	6/15/2015	ama
A 61 B 5/404	6/15/2015	ama

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
607	36	6/15/2015	ama
600	509	6/15/2015	ama

SEARCH NOTES		
Search Notes	Date	Examiner
Please see EAST search history	6/15/2015	ama
Conducted an inventor search	6/15/2015	ama
Referenced the search performed in the parent application 12/358,905	6/15/2015	ama
Conducted an updated search	2/25/2016	ama

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

Office of Petitions: Routing Sheet



Application No. 14136658

This application is being forwarded to your office for further processing. A decision has been rendered on a petition filed in this application, as indicated below. For details of this decision, please see the document PET.OP.DEC filed on the same date as this document.

- [X] **GRANTED**
- [ ] **DISMISSED**
- [ ] **DENIED**

Office of Petitions: Decision Count Sheet

Mailing Month: 5

Application No.: 14136658

For US serial numbers: enter number only, no slashes or commas. Ex: 10123456
For PCT: enter "51+single digit of year of filing+last 5 numbers", Ex. for PCT/US05/12345, enter 51512345

Deciding Official: DIANE GOODWYN

Count (1) - Palm Credit 14136658

Decision: GRANT

FINANCE WORK NEEDED
☐ Select Check Box for YES

Decision Type: 502 - 37 CFR 1.137(b) - REVIVAL BASED ON UNINTENTI

Notes:

Count (2)

Decision: n/a

FINANCE WORK NEEDED
☐ Select Check Box for YES

Decision Type: NONE

Notes:

Count (3)

Decision: n/a

FINANCE WORK NEEDED
☐ Select Check Box for YES

Decision Type: NONE

Notes:

Initials of Approving Official (if required)

If more than 3 decisions, attach 2nd count sheet & mark this box ☐

Printed on: 5/7/2017

Office of Petitions Internal Document - Ver. 5.0

UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/136,658	12/20/2013	Gloria Lin	P7276USC1	2657

111349 7590 05/10/2017

Van Court & Aldridge LLP
Apple Inc.
154 Grand St.
New York, NY 10013

EXAMINER
ALTER MORSCHAUSER, ALYSSA MARGO

ART UNIT	PAPER NUMBER
3762	

NOTIFICATION DATE	DELIVERY MODE
05/10/2017	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docket@vcaiplaw.com
jaldridge@vcaiplaw.com
avancourt@vcaiplaw.com

UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

: DECISION ON PETITION

In re Application of :
LIN, et al :
Application No. 14/136,658
Filed: December 20, 2013
Attorney Docket No. P7276USC1

This is a decision in response to the petition to revive an abandoned application unintentionally under the provisions of 37 CFR 1.137(a), filed September 4, 2016, for the above-identified application.

The petition is **GRANTED**.

The application became abandoned for failure to timely file a reply within the meaning of 37 CFR 1.113 to the final Office action of March 2, 2016. The proposed reply required for consideration of a petition to revive must be a Notice of Appeal (and appeal fee required by 37 CFR 41.20(b)(2), an amendment that *prima facie* places the application in condition for allowance, a Request for Continued Examination and submission (37 CFR 1.114), or the filing of a continuing application under 37 CFR 1.53(b). See MPEP 711.03(c)(III)(A)(2). An extension of time under the provisions of 37 CFR 1.136(a) for one (1) month was obtained. Accordingly, the application became abandoned on July 6, 2016. A Notice of Abandonment was mailed April 7, 2017.

The petition satisfies the requirements of 37 CFR 1.137(a) in that petitioner has supplied (1) the reply in the form of a Request for Continued Examination (RCE) and fee of $1200, and the submission required by 37 CFR 1.114; (2) the petition fee of $1700; and (3) a proper statement of unintentional delay.

Telephone inquiries concerning this decision should be directed to the undersigned at (571) 272- 6735. All other inquiries should be directed to the Technology Center at (571) 272-3700.

This application is being referred to Technology Center AU 3762 for processing of the RCE and for appropriate action by the Examiner in the normal course of business on the amendment submitted in accordance with 37 CFR 1.114.

/Diane C. Goodwyn/
Diane C. Goodwyn
Petitions Paralegal Specialist
Office of Petitions

UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/136,658	12/20/2013	Gloria Lin	P7276USC1	2657

111349 7590 04/07/2017

Van Court & Aldridge LLP
Apple Inc.
154 Grand St.
New York, NY 10013

EXAMINER
ALTER MORSCHAUSER, ALYSSA MARGO

ART UNIT	PAPER NUMBER
3762	

NOTIFICATION DATE	DELIVERY MODE
04/07/2017	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docket@vcaiplaw.com
jaldridge@vcaiplaw.com
avancourt@vcaiplaw.com

Notice of Abandonment	Application No.	Applicant(s)
	14/136,658	LIN ET AL.
	Examiner	Art Unit
	Alyssa M. Alter	3762

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

This application is abandoned in view of:

1. ☒ Applicant's failure to timely file a proper reply to the Office letter mailed on *02 March 2016*.
   (a) ☐ A reply was received on _____ (with a Certificate of Mailing or Transmission dated _____), which is after the expiration of the period for reply (including a total extension of time of _____ month(s)) which expired on _____.
   (b) ☒ A proposed reply was received on *30 June 2016*, but it does not constitute a proper reply under 37 CFR 1.113 to the final rejection.
   (A proper reply under 37 CFR 1.113 to a final rejection consists only of: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) if this is utility or plant application, a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. Note that RCEs are not permitted in design applications.)
   (c) ☐ A reply was received on _____ but it does not constitute a proper reply, or a bona fide attempt at a proper reply, to the non-final rejection. See 37 CFR 1.85(a) and 1.111. (See explanation in box 7 below).
   (d) ☐ No reply has been received.

2. ☐ Applicant's failure to timely pay the required issue fee and publication fee, if applicable, within the statutory period of three months from the mailing date of the Notice of Allowance (PTOL-85).
   (a) ☐ The issue fee and publication fee, if applicable, was received on _____ (with a Certificate of Mailing or Transmission dated _____), which is after the expiration of the statutory period for payment of the issue fee (and publication fee) set in the Notice of Allowance (PTOL-85).
   (b) ☐ The submitted fee of $_____ is insufficient. A balance of $_____ is due.
   The issue fee required by 37 CFR 1.18 is $_____. The publication fee, if required by 37 CFR 1.18(d), is $_____.
   (c) ☐ The issue fee and publication fee, if applicable, has not been received.

3. ☐ Applicant's failure to timely file corrected drawings as required by, and within the three-month period set in, the Notice of Allowability (PTO-37).
   (a) ☐ Proposed corrected drawings were received on _____ (with a Certificate of Mailing or Transmission dated _____), which is after the expiration of the period for reply.
   (b) ☐ No corrected drawings have been received.

4. ☐ The letter of express abandonment which is signed by the attorney or agent of record or other party authorized under 37 CFR 1.33(b). See 37 CFR 1.138(b).

5. ☐ The letter of express abandonment which is signed by an attorney or agent (acting in a representative capacity under 37 CFR 1.34) upon the filing of a continuing application.

6. ☐ The decision by the Board of Patent Appeals and Interference rendered on _____ and because the period for seeking court review of the decision has expired and there are no allowed claims.

7. ☒ The reason(s) below:

A timely proper reply to the Final Rejection dated March 2, 2016 was not received prior to the 6 month date of September 2, 2016. As a result, the application was considered to be abandoned. It is noted that a Petition for Revival was filed on September 4, 2016.

/Alyssa M Alter/
Primary Examiner
Art Unit: 3762

Petitions to revive under 37 CFR 1.137, or requests to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to minimize any negative effects on patent term.

AliveCor Exhibit 1002
AliveCor, Inc. v. Apple Inc.
IPR2024-00169, U.S. Patent No. 10,076,257

PTO/SB/30EFS (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	14/136,658	Filing Date	2013-12-20	Docket Number (if applicable)	P7276USC1	Art Unit	3762
First Named Inventor	Gloria Lin			Examiner Name	Alyssa Margo Alter Morschauser		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

- ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on .....
- ☐ Other .....

☒ Enclosed

- ☒ Amendment/Reply
- ☐ Information Disclosure Statement (IDS)
- ☐ Affidavit(s)/ Declaration(s)
- ☐ Other .....

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____ (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other .....

FEES

☒ **The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.**
The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 506007

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

☐ Applicant Signature

PTO/SB/30EFS (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Signature of Registered U.S. Patent Practitioner			
Signature	/Jeffrey C. Aldridge/	Date (YYYY-MM-DD)	2016-09-02
Name	Jeffrey C. Aldridge	Registration Number	51390

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants	:	Gloria Lin et al.
Application No.	:	14/136,658 Confirmation No.: 2657
Filed	:	December 20, 2013
For	:	SEAMLESSLY EMBEDDED HEART RATE MONITOR
Art Unit	:	3762
Examiner	:	Alyssa Margo Alter Morschauser

New York, New York 10013
September 2, 2016

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

REPLY TO FINAL OFFICE ACTION

Sir:

This is in response to the Final Office Action mailed March 2, 2016 (hereinafter "the Office Action"). Applicants hereby respond as follows:

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper; and

Remarks begin on page 10 of this paper.