

EXHIBIT D

APPLE'S PRELIMINARY INFRINGEMENT CONTENTIONS

Apple Inc. v. AliveCor, Inc., Case No. 4:22-cv-07608 (N.D. Cal.)

U.S. Patent No. 10,568,533 on the AliveCor KardiaMobile Card in Conjunction with the Kardia App¹

Defendant AliveCor, Inc. (“AliveCor”) infringes claims 20–22, 24, and 37 of the ’533 Patent (the “Asserted Claims”) under 35 U.S.C. § 271(a), (b), and (c). As set forth below, AliveCor’s infringement is both direct and indirect.

AliveCor has directly infringed the ’533 Patent at least by making, using, offering to sell, selling, and/or importing into the United States the KardiaMobile Card device (“KardiaMobile Card”) and the Kardia App (collectively, the “AliveCor Products”) on or after the issuance date of the patent.

AliveCor induces infringement under 35 U.S.C. § 271(b) by providing the AliveCor Products, which are sold and specifically configured to infringe the Asserted Claims to AliveCor customers and partners in the United States. AliveCor actively instructs and encourages its customers and partners on how to use the AliveCor Products, including through product manuals, advertising, and instructional videos. When used as instructed, AliveCor’s customers and partners use these products to practice the systems of the ’533 Patent and directly infringe the Asserted Claims. AliveCor induces such infringement by providing the AliveCor Products and instructions, knowing of, or being willfully blind to the existence of the ’533 Patent. On information and belief, AliveCor specifically intends that its actions will result in infringement of the asserted claims of the ’533 Patent or subjectively believes that its actions will result in infringement of the Asserted Claims, but took deliberate actions to avoid learning of the facts.

As shown below, AliveCor also contributes to infringement under 35 U.S.C. § 271(c) by providing the AliveCor Products, which embody a material part of the claimed invention of the ’533 Patent, are known by AliveCor to be specially made or adapted for use in an infringing manner, and are not staple articles with substantial non-infringing uses. The AliveCor Products are specially designed to infringe the ’533 Patent and the accused components have no substantial non-infringing uses. AliveCor has had knowledge of both the existence of the ’533 Patent and that its actions described above would contribute to the direct infringement of the patent at least since the filing of the Complaint in this matter.

¹ Public information is limited regarding the KardiaMobile Card and the Kardia App, and accordingly, Apple reserves the right to amend its infringement contentions based on productions and source code made available during discovery.

ATTORNEY-CLIENT PRIVILEGED/ATTORNEY WORK PRODUCT

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In addition, AliveCor’s customers provide one or more elements of the Asserted Claims. AliveCor’s customers’ infringement of this claim element is attributable to AliveCor because AliveCor benefits from the use of each claimed component of the invention. For example, AliveCor receives a subscription fee for use of the KardiaCare membership with the KardiaMobile Card and the Kardia App.

1. Independent Claim 20

Claim 20	AliveCor Products
[20.pre] A non-transitory computer-readable storage medium storing one or more programs configured to be executed by one or more processors of a first electronic device with a display and one or more input devices including a biometric sensor, the one or more programs including instructions for:	To the extent the preamble is found to be limiting, the KardiaMobile Card in conjunction with the Kardia App (collectively, the “AliveCor Products”) comprise “a non-transitory computer-readable storage medium storing one or more programs configured to be executed by one or more processors of a first electronic device with a display and one or more input devices including a biometric sensor.” The KardiaMobile Card is required to be used with the Kardia App, which runs on “a first electronic device with a display” and “one or more processors.” For example, the Kardia App must run on a device running at least Android OS 6.0 (<i>e.g.</i>, the Google Pixel 5), which is “a first electronic device with a display” and “one or more processors.” <i>See, e.g.:</i> KardiaMobile Card is compatible with most popular phones and tablets. To use your Kardia device, you must download the Kardia app on a compatible device running at least Apple iOS 10.3.3, or at least Android OS 6.0. For a full list of compatible devices please visit the support pages on the AliveCor website. KardiaMobile Card Amazon Page (APL-ALV00010710); <i>see also</i> KardiaMobile Card Store Front (APL-ALV00010893); AliveCor Compatibility (APL-ALV00010856).²

² All websites, unless otherwise noted, were last accessed on March 3, 2023.

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Claim 20	AliveCor Products
	 Google Pixel 5 Featuring a Snapdragon 765G Mobile Platform Powered by the Snapdragon 765G 5G Mobile Platform, the new Google Pixel 5 delivers blazing speed, connectivity, and performance. Buy Now Google Pixel 5 Store Front (APL-ALV00010865). The KardiaMobile Card comprises an “input device including a biometric sensor” at least because, for example, it includes sensors for recording a medical-grade electrocardiogram (EKG).  KardiaMobile Card Store Front (APL-ALV00010893).

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Claim 20	AliveCor Products
	A photograph showing a smartphone displaying a heart rate and ECG recording app. The screen shows a heart icon, a heart rate of 71 BPM, a recording time of 23 seconds, and a single-lead ECG waveform. Below the phone, a person's hands are holding an AliveCor KardiaMobile device, which is a small, white, rectangular device with a blue V-shaped sensor area and a power button. <i>Id.</i>

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Claim 20	AliveCor Products
	Arrhythmias don't wait for the doctor's office, so we created a portable, durable personal EKG that goes anywhere you go. KardiaMobile Card is as thin and light as a credit card, fits perfectly in your wallet, and records an accurate, medical-grade EKG in seconds. • Thin and light as a credit card • Bluetooth enabled, no WiFi required • FDA-Cleared to detect AFib • Detect up to six of the most common arrhythmias* <i>Id.</i> What is KardiaMobile Card? KardiaMobile Card is the first and only credit-card-sized personal EKG to be cleared by the FDA. It's thin and light enough to fit perfectly in your wallet, so you can take it with you anywhere. KardiaMobile Card uses Bluetooth to connect to your phone and record a medical-grade, single-lead EKG in seconds, no WiFi required. KardiaMobile Card can detect AFib, Bradycardia, and Tachycardia, with more determinations available with a KardiaCare membership (such as Sinus Rhythm with PVCs, Sinus Rhythm with Wide QRS, and Sinus Rhythm with SVE). <i>Id.</i>

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Claim 20	AliveCor Products	
	Accurate EKG results in seconds KardiaMobile Card is an FDA-cleared personal EKG that can detect up to six of the most common arrhythmias. Using clinically validated EKG technology and our advanced algorithm, you'll get an accurate analysis of your heart rhythm with every recording in just 30 seconds.	Bluetooth enabled, no WiFi required KardiaMobile Card uses Bluetooth technology to connect to your phone and record medical-grade EKGs. That means there's no WiFi required, so you can record your EKG anywhere.
	<i>Id.</i>	

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Claim 20	AliveCor Products
	1. KardiaMobile Card is a personal EKG device that records your EKG and wirelessly transmits the data to the Kardia app installed on your smartphone or tablet. a. Contains two electrodes on the top surface, for use with the left and right hands. b. Powered by a non-replaceable battery. c. Bluetooth wirelessly transmits EKG data to your smartphone or tablet. 2. KardiaMobile Card is capable of recording a Single-Lead EKG that provides a single view of the heart's electrical activity. 3. An instant algorithmic analysis ("Instant Analysis") of your heart rhythm is provided upon completion of your EKG recording. See the EKG Instant Analysis section for more details. 4. KardiaMobile Card requires a compatible smartphone or tablet and the Kardia app. a. The list of compatible devices can be viewed at www.alivecor.com/compatibility. b. The Kardia app can be downloaded in the App Store or the Google Play Store. 5. The KardiaMobile Card System does not require a Wi-Fi or mobile data connection to record an EKG and save it to the device's local memory; it does require a connection to sync automatically with the AliveCor server, email, or print directly from the Kardia app. If you do not have a Wi-Fi or mobile data connection at the time of the EKG recording, you may email or print the data later when you have such a connection, and the sync will happen automatically at that time. KardiaMobile Card IFU (APL-ALV00010513) at 0515.

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Claim 20	AliveCor Products
	FRONT VIEW  <i>Id.</i> at 0516.

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Claim 20	AliveCor Products
	Recording an EKG 1. Open the app and tap "Record your EKG". 2. If this is your first time using the KardiaMobile Card, follow the on-screen instructions to set up and choose your device. 3. Pick up the KardiaMobile Card using your index finger and thumb; and press the power button using your thumb. 

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Claim 20	AliveCor Products
	4. Lay the device on a flat surface. Make sure the device is in the correct orientation with the AliveCor logo and brand name "KardiaMobile" in the top left. 5. When ready, place a finger or the thumb from each hand on the top two electrodes. There's no need to squeeze or press down firmly.  6. The app will indicate when you have good contact as you begin your recording. 7. Hold still as you watch the timer count down from 30 seconds, until your EKG recording is complete. 8. The device will turn off automatically after use. <i>Id.</i> at 0520–0521.

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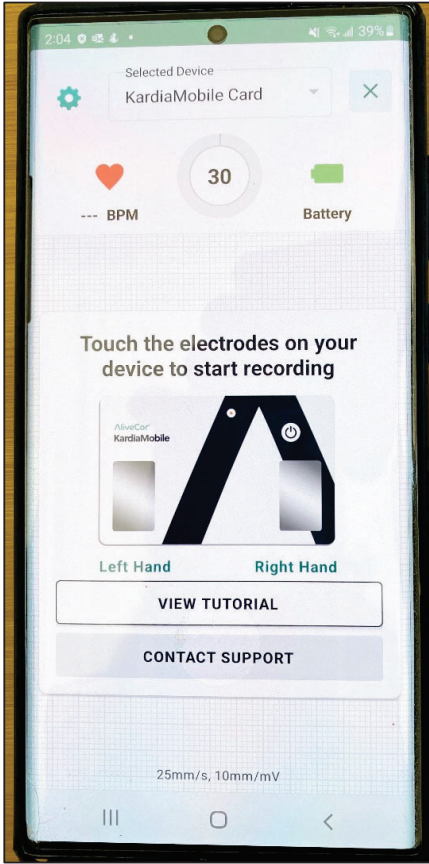
Claim 20	AliveCor Products
	 Screenshot from the Kardia App.

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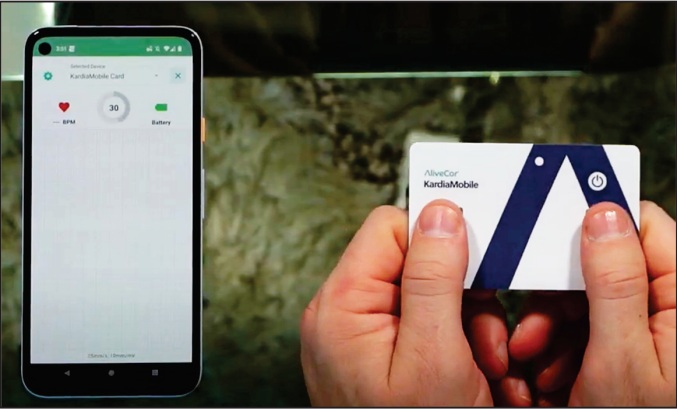
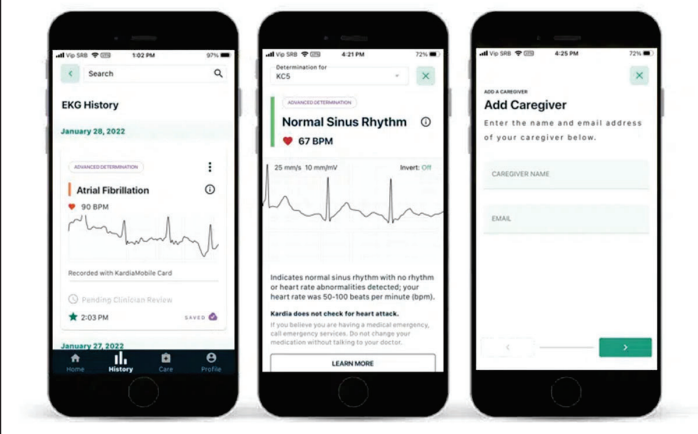
Claim 20	AliveCor Products
	 AliveCor KardiaMobile Card Review (APL-ALV00010795).  Gadgets and Wearables Article (APL-ALV00010868).

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Claim 20	AliveCor Products
[1.a] the one or more programs including instructions for: displaying, on the display, a first user interface indicating that the first electronic device is ready to detect biometric information;	The AliveCor Products comprise “one or more programs including instructions for: displaying, on the display, a first user interface indicating that the first electronic device is ready to detect biometric information.” When the KardiaMobile Card is connected to the “first electronic device,” the Kardia App on the “first electronic device” displays, on the “display” of the “first electronic device,” “a first user interface indicating that the first electronic device is ready to detect biometric information,” such as EKG information. <i>See, e.g.:</i>

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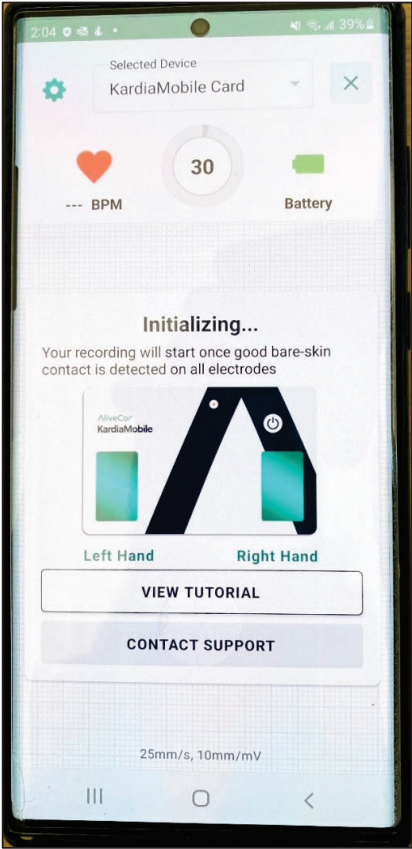
Claim 20	AliveCor Products
	 Screenshot of the Kardia App.
[20.b] detecting a first input with the biometric sensor that	The AliveCor Products comprise “one or more programs including instructions for ... detecting a first input with the biometric sensor that satisfies first criteria.”

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Claim 20	AliveCor Products
satisfies first criteria;	For example, the Kardia App on the “first electronic device” “detect[s] a first input with the biometric sensor” in the KardiaMobile Card “that satisfies a first criteria.” Non-limiting examples of “first criteria” include the KardiaMobile Card being powered on, a stable connection between a user’s skin and the electrodes, a wireless connection between the KardiaMobile Card and the Kardia App, and the lack of electrical interference. For example, when the user’s skin makes sufficient contact with the “biometric sensor” in the KardiaMobile Card, the “first criteria” of a stable connection between a user’s skin and the electrodes is met. <i>See, e.g.:</i> Recording an EKG 1. Open the app and tap “Record your EKG”. 2. If this is your first time using the KardiaMobile Card, follow the on-screen instructions to set up and choose your device. 3. Pick up the KardiaMobile Card using your index finger and thumb; and press the power button using your thumb. 

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Claim 20	AliveCor Products
	4. Lay the device on a flat surface. Make sure the device is in the correct orientation with the AliveCor logo and brand name "KardiaMobile" in the top left. 5. When ready, place a finger or the thumb from each hand on the top two electrodes. There's no need to squeeze or press down firmly.  6. The app will indicate when you have good contact as you begin your recording. 7. Hold still as you watch the timer count down from 30 seconds, until your EKG recording is complete. 8. The device will turn off automatically after use. KardiaMobile Card IFU (APL-ALV00010513) at 0520–0521.

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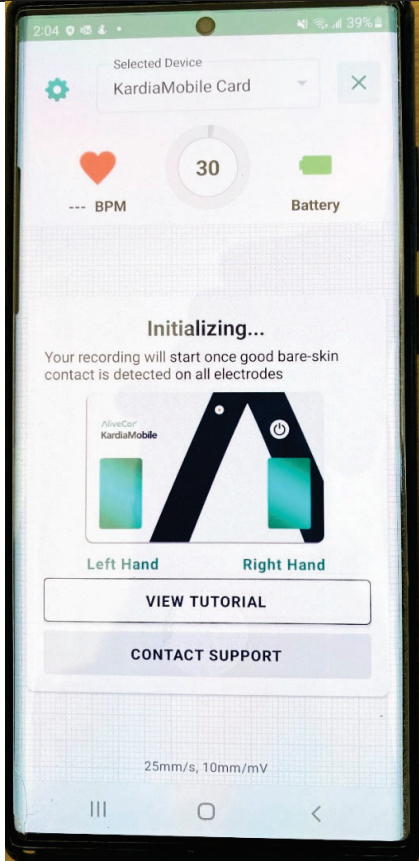
Claim 20	AliveCor Products
	 Screenshot of the Kardia App.

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Claim 20	AliveCor Products
[20.c] in response to detecting the first input with the biometric sensor: starting to record biometric information detected by the biometric sensor; and	The AliveCor Products comprise “one or more programs including instructions for ... in response to detecting the first input with the biometric sensor: starting to record biometric information detected by the biometric sensor.” For example, “in response to detecting the first input with the biometric sensor” in the KardiaMobile Card, the Kardia App on the “first electronic device” “start[s] to record biometric information detected by the biometric sensor” in the KardiaMobile Card. <i>See, e.g.:</i>

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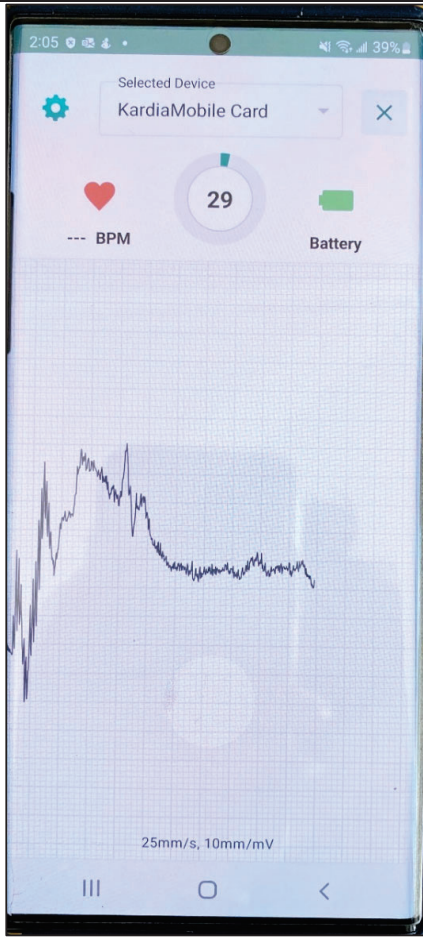
Claim 20	AliveCor Products
	A screenshot of a smartphone displaying the Kardia app interface. At the top, the status bar shows the time 2:05, signal strength, Wi-Fi, and 39% battery. The app header includes a 'Selected Device' dropdown menu set to 'KardiaMobile Card' with a settings gear icon and a close button. Below this, there are three main indicators: a red heart icon, a large circular heart rate display showing '29' with a green segment, and a green battery icon. Under the heart rate is the text '--- BPM' and under the battery is 'Battery'. The main area of the screen shows a black ECG waveform on a light blue grid. At the bottom of the grid, the text '25mm/s, 10mm/mV' is visible. The phone's home indicator bar is at the very bottom. Screenshot of the Kardia App.

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Claim 20	AliveCor Products
	Recording an EKG 1. Open the app and tap "Record your EKG". 2. If this is your first time using the KardiaMobile Card, follow the on-screen instructions to set up and choose your device. 3. Pick up the KardiaMobile Card using your index finger and thumb; and press the power button using your thumb.  KardiaMobile Card IFU (APL-ALV00010513) at 0519.

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Claim 20	AliveCor Products
	4. Lay the device on a flat surface. Make sure the device is in the correct orientation with the AliveCor logo and brand name "KardiaMobile" in the top left. 5. When ready, place a finger or the thumb from each hand on the top two electrodes. There's no need to squeeze or press down firmly.  6. The app will indicate when you have good contact as you begin your recording. 7. Hold still as you watch the timer count down from 30 seconds, until your EKG recording is complete. 8. The device will turn off automatically after use. <i>Id.</i> at 0520.

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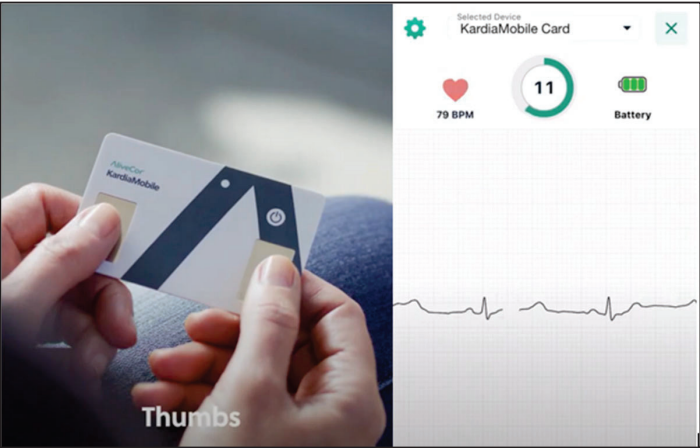
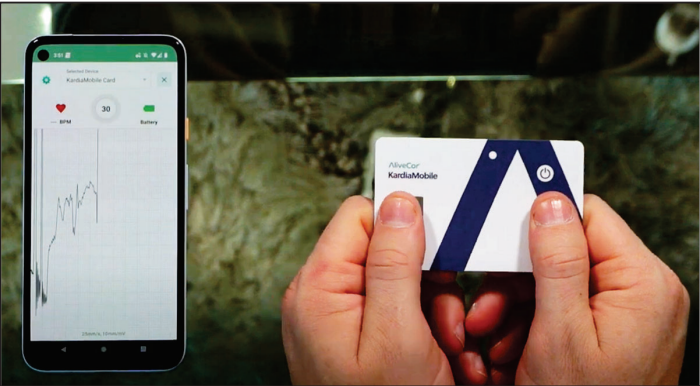
Claim 20	AliveCor Products
	 How to Record an EKG with KardiaMobile Card (APL-ALV00010798).  AliveCor KardiaMobile Card Review (APL-ALV00010795).

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Claim 20	AliveCor Products
[20.d] displaying, on the display, a second user interface that is different from the first user interface, wherein the second user interface includes an indication of progress in recording the biometric information;	The AliveCor Products comprise “one or more programs including instructions for ... in response to detecting the first input with the biometric sensor: ... displaying, on the display, a second user interface that is different from the first user interface, wherein the second user interface includes an indication of progress in recording the biometric information.” For example, “in response to detecting the first input with the biometric sensor” in the KardiaMobile Card, the Kardia App on the “first electronic device” “display[s], on the display” of the “first electronic device,” “a second user interface that is different from the first user interface.” Moreover, for example, the “first user interface” in the Kardia App on the “first electronic device” instructs the user to turn on your KardiaMobile Card device. Further, for example, the “second user interface” in the Kardia App on the “first electronic device” indicates that the KardiaMobile Card has been turned on and instructs the user to touch the electrodes on the KardiaMobile card to start recording an EKG. <i>See, e.g.:</i>

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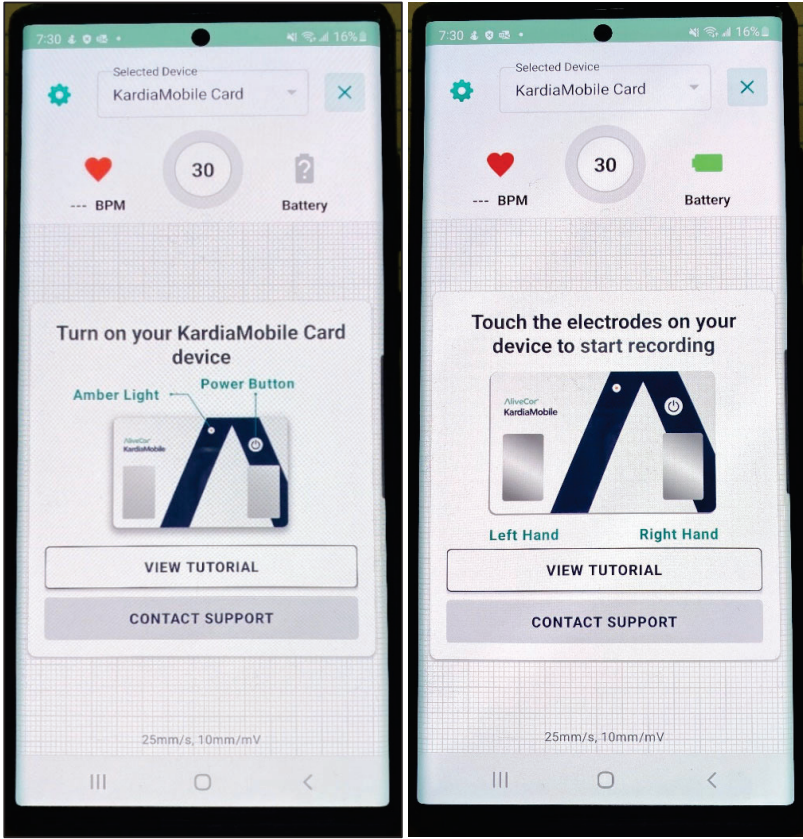
Claim 20	AliveCor Products
	 Screenshots of the Kardia App.

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Claim 20	AliveCor Products
[20.e] after recording at least a portion of the biometric information, detecting, via the one or more input devices, that the first criteria are no longer met;	The AliveCor Products comprise “one or more programs including instructions for ... after recording at least a portion of the biometric information, detecting, via the one or more input devices, that the first criteria are no longer met.” For example, “after recording at least a portion of the biometric information” from the KardiaMobile Card, the Kardia App on the “first electronic device” “detect[s], via the” KardiaMobile Card “that the first criteria are no longer met.” Non-limiting examples of “first criteria” include at least the KardiaMobile Card being powered on, a stable connection between a user’s skin and the electrodes, a wireless connection between the KardiaMobile Card and the Kardia App, and the lack of electrical interference. <i>See, e.g.:</i>

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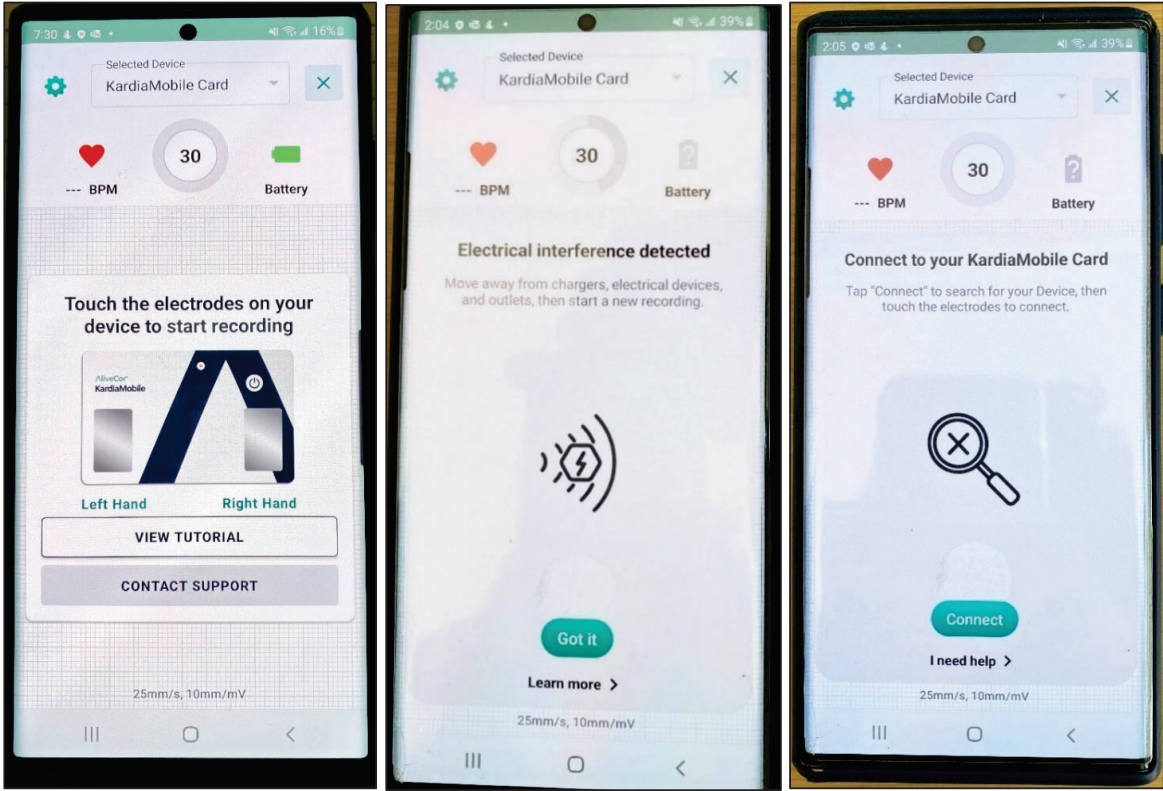
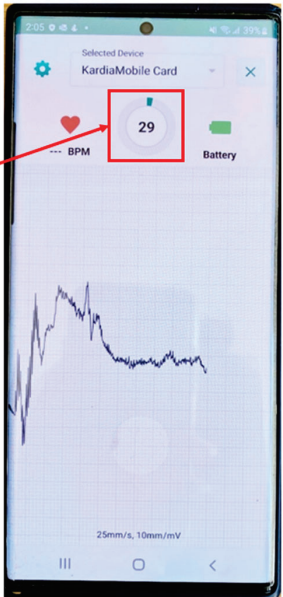
Claim 20	AliveCor Products
	 Screenshots of the Kardia App.

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Claim 20	AliveCor Products
[20.f] in response to detecting that the first criteria are no longer met for a first period of time, resetting the indication of progress in recording the biometric information and maintaining display of the second user interface; and	The AliveCor Products comprise “one or more programs including instructions for ... in response to detecting that the first criteria are no longer met for a first period of time, resetting the indication of progress in recording the biometric information and maintaining display of the second user interface.” For example, if the AliveCor Products detect a loss of a connection within ten seconds, they determine that the “first criteria are no longer met, resetting the indication of progress in recording the biometric information” from the KardiaMobile Card by resetting the timer to the duration configured in the Kardia App (e.g., 30 seconds) and the EKG recording graph “and maintaining the second user interface.” Non-limiting exemplary images of the Kardia App display when an EKG recording is in progress are shown below. <i>See, e.g.:</i>

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Claim 20	AliveCor Products
	 Indication Of Progress Screenshot of the Kardia App (annotations added).³

³ All annotations added unless otherwise indicated.

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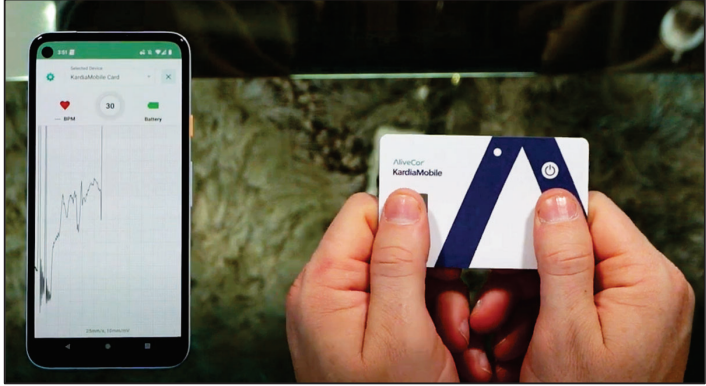
Claim 20	AliveCor Products
	 AliveCor KardiaMobile Card Review (APL-ALV00010795). Non-limiting exemplary images of the Kardia App display are shown below showing the second user interface is maintained when an EKG recording is interrupted for less than ten seconds. <i>See, e.g.:</i>

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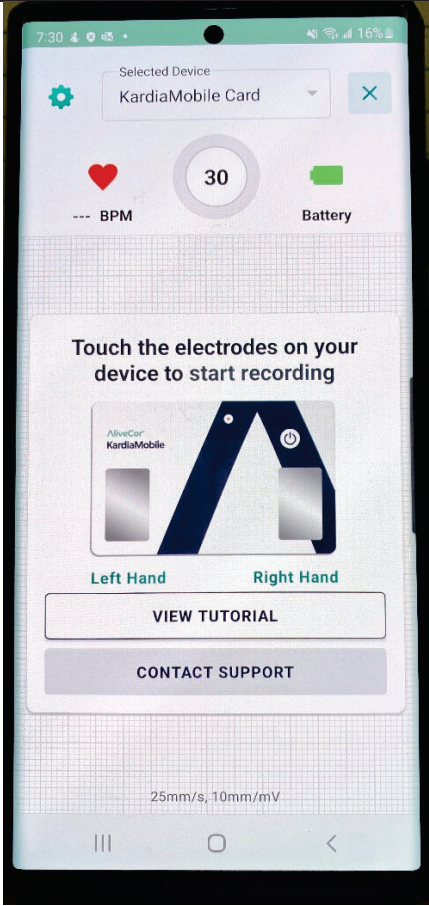
Claim 20	AliveCor Products
	 Screenshot from the Kardia App.

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Claim 20	AliveCor Products
[20.g] in response to detecting that the first criteria are no longer met for a second period of time that is longer than the first period of time, replacing display of the second user interface with the first user interface.	The AliveCor Products comprise “one or more programs including instructions for ... in response to detecting that the first criteria are no longer met for a second period of time that is longer than the first period of time, replacing display of the second user interface with the first user interface.” For example, the KardiaMobile Card automatically shuts off after ten seconds if no contact from the user’s skin is sensed by the KardiaMobile Card. When the KardiaMobile Card automatically shuts off, the Kardia App on the first electronic device displays the first user interface. <i>See, e.g.:</i> How do I turn off the KardiaMobile Card? Updated · 8 months ago The KardiaMobile Card will turn off automatically after 10 seconds if no contact is sensed. This means that you will only have to turn on your device by pressing the power button on the card in order to record your EKG. After you have finished recording an EKG, the device will automatically shut off. The power button does not need to be pressed after recording in order to turn the card off. How do I turn off the KardiaMobile Card? (APL-ALV00010879).

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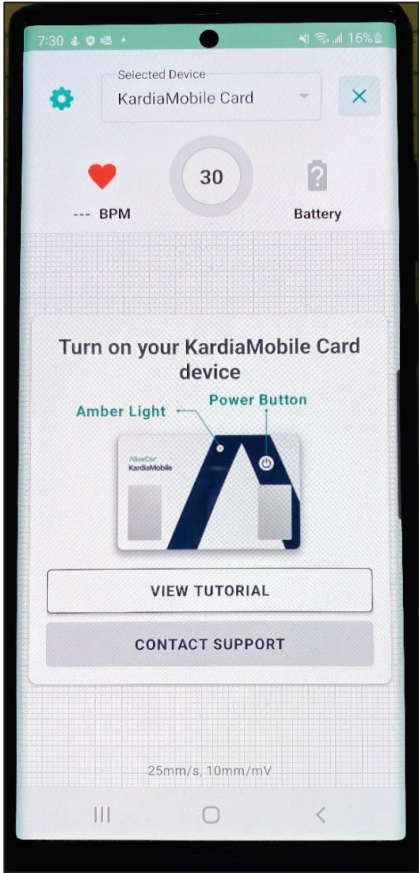
Claim 20	AliveCor Products
	A screenshot of the Kardia App interface on a smartphone. At the top, the status bar shows the time 7:30, signal strength, and battery level at 16%. The app header includes a 'Selected Device' dropdown menu set to 'KardiaMobile Card' with a close button. Below this, there's a heart rate display showing '30' BPM with a red heart icon and a battery status icon. The main content area features a tutorial titled 'Turn on your KardiaMobile Card device' with an image of the device and labels for 'Amber Light' and 'Power Button'. Below the image are two buttons: 'VIEW TUTORIAL' and 'CONTACT SUPPORT'. At the bottom, there's a scale indicator '25mm/s, 10mm/mV' and a navigation bar with three icons. Screenshot from the Kardia App.

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2. Dependent Claim 21

Claim 21	AliveCor Products
[21] The non-transitory computer-readable storage medium of claim 20, wherein the recorded biometric information includes an electrocardiogram recording derived from the biometric information detected by the biometric sensor.	The AliveCor Products meet all of the limitations of claim 20, as discussed above. <i>See supra</i>, claim 20. The AliveCor Products further record biometric information “wherein the recorded biometric information includes an electrocardiogram recording derived from the biometric information detected by the biometric sensor.” For example, the biometric sensor in the KardiaMobile Card records biometric information that “includes an electrocardiogram recording derived from the biometric information detected by the biometric sensor.” <i>See supra</i>, claim [20.c]. <i>See, e.g.:</i>

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Claim 21	AliveCor Products
	A photograph showing a smartphone displaying a heart rate and ECG recording. The phone screen shows 'Recording Single-Lead EKG' at the top, a heart icon with '71 BPM', a '23' in a green circle with 'Recording Time' below it, and a single-lead ECG waveform. Below the phone, a person's hands are holding an AliveCor KardiaMobile card. The card is white with a blue 'A' shape in the center, a power button on the right, and two grey sensor pads on the left and right. The text 'AliveCor KardiaMobile' is printed on the left side of the card. KardiaMobile Card Store Front (APL-ALV00010893).

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Claim 21	AliveCor Products
	Arrhythmias don't wait for the doctor's office, so we created a portable, durable personal EKG that goes anywhere you go. KardiaMobile Card is as thin and light as a credit card, fits perfectly in your wallet, and records an accurate, medical-grade EKG in seconds. • Thin and light as a credit card • Bluetooth enabled, no WiFi required • FDA-Cleared to detect AFib • Detect up to six of the most common arrhythmias* <i>Id.</i> What is KardiaMobile Card? KardiaMobile Card is the first and only credit-card-sized personal EKG to be cleared by the FDA. It's thin and light enough to fit perfectly in your wallet, so you can take it with you anywhere. KardiaMobile Card uses Bluetooth to connect to your phone and record a medical-grade, single-lead EKG in seconds, no WiFi required. KardiaMobile Card can detect AFib, Bradycardia, and Tachycardia, with more determinations available with a KardiaCare membership (such as Sinus Rhythm with PVCs, Sinus Rhythm with Wide QRS, and Sinus Rhythm with SVE). <i>Id.</i>

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Claim 21	AliveCor Products	
	Accurate EKG results in seconds KardiaMobile Card is an FDA-cleared personal EKG that can detect up to six of the most common arrhythmias. Using clinically validated EKG technology and our advanced algorithm, you'll get an accurate analysis of your heart rhythm with every recording in just 30 seconds.	Bluetooth enabled, no WiFi required KardiaMobile Card uses Bluetooth technology to connect to your phone and record medical-grade EKGs. That means there's no WiFi required, so you can record your EKG anywhere.
	<i>Id.</i>	

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Claim 21	AliveCor Products
	1. KardiaMobile Card is a personal EKG device that records your EKG and wirelessly transmits the data to the Kardia app installed on your smartphone or tablet. a. Contains two electrodes on the top surface, for use with the left and right hands. b. Powered by a non-replaceable battery. c. Bluetooth wirelessly transmits EKG data to your smartphone or tablet. 2. KardiaMobile Card is capable of recording a Single-Lead EKG that provides a single view of the heart's electrical activity. 3. An instant algorithmic analysis ("Instant Analysis") of your heart rhythm is provided upon completion of your EKG recording. See the EKG Instant Analysis section for more details. 4. KardiaMobile Card requires a compatible smartphone or tablet and the Kardia app. a. The list of compatible devices can be viewed at www.alivecor.com/compatibility. b. The Kardia app can be downloaded in the App Store or the Google Play Store. 5. The KardiaMobile Card System does not require a Wi-Fi or mobile data connection to record an EKG and save it to the device's local memory; it does require a connection to sync automatically with the AliveCor server, email, or print directly from the Kardia app. If you do not have a Wi-Fi or mobile data connection at the time of the EKG recording, you may email or print the data later when you have such a connection, and the sync will happen automatically at that time. KardiaMobile Card IFU (APL-ALV00010513) at 0515.

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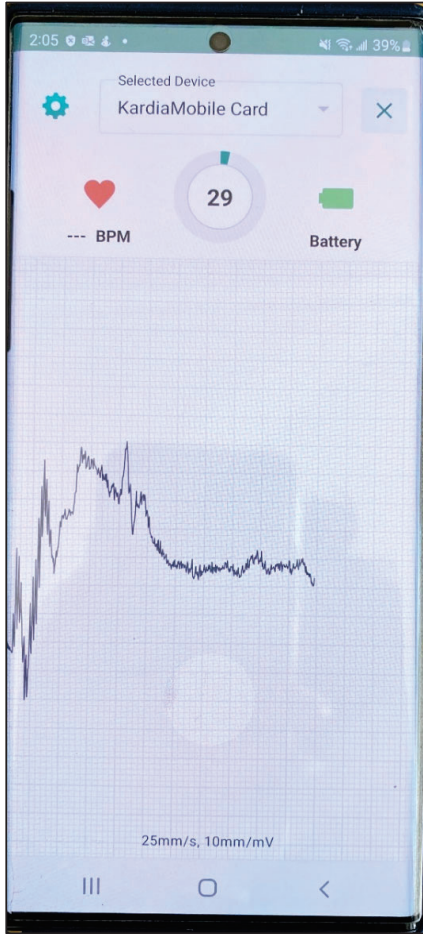
Claim 21	AliveCor Products
	A screenshot of a smartphone displaying the Kardia app interface. At the top, the status bar shows the time 2:05, signal strength, and 39% battery. The app header includes a 'Selected Device' dropdown menu set to 'KardiaMobile Card'. Below this, there are three main indicators: a red heart icon with '--- BPM' below it, a large circular gauge showing the number '29', and a green battery icon with 'Battery' below it. The central part of the screen features a blue ECG waveform on a grid background. At the bottom of the screen, the text '25mm/s, 10mm/mV' is visible. The phone's home indicator bar is at the very bottom. Screenshot of the Kardia App.

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Claim 21	AliveCor Products
	Recording an EKG 1. Open the app and tap "Record your EKG". 2. If this is your first time using the KardiaMobile Card, follow the on-screen instructions to set up and choose your device. 3. Pick up the KardiaMobile Card using your index finger and thumb; and press the power button using your thumb. 

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Claim 21	AliveCor Products
	4. Lay the device on a flat surface. Make sure the device is in the correct orientation with the AliveCor logo and brand name "KardiaMobile" in the top left. 5. When ready, place a finger or the thumb from each hand on the top two electrodes. There's no need to squeeze or press down firmly.  6. The app will indicate when you have good contact as you begin your recording. 7. Hold still as you watch the timer count down from 30 seconds, until your EKG recording is complete. 8. The device will turn off automatically after use. KardiaMobile Card IFU (APL-ALV00010513) at 0520–0521.

EXHIBIT D

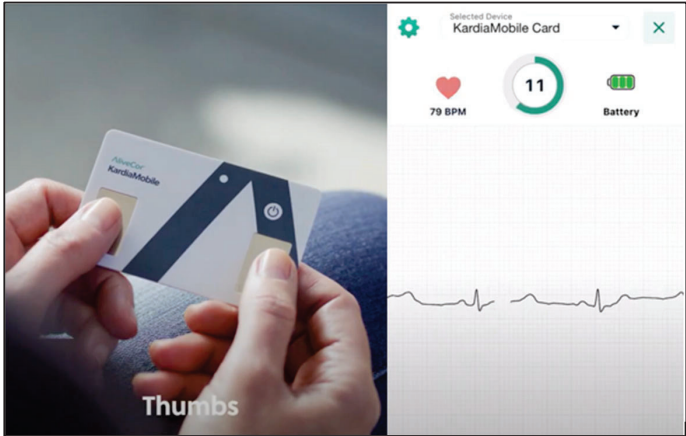
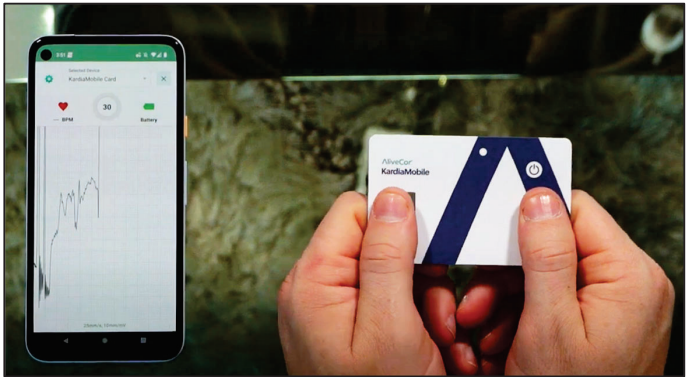
Claim 21	AliveCor Products
	 How to Record an EKG with KardiaMobile Card (APL-ALV00010798).  AliveCor KardiaMobile Card Review (APL-ALV00010795).

EXHIBIT D

3. Dependent Claim 22

Claim 22	AliveCor Products
[22.pre] The non-transitory computer-readable storage medium of claim 20,	The AliveCor Products practice all of the limitations of claim 20, as discussed above. <i>See supra</i> , claim 20.
[22.a] wherein the one or more programs further include instructions for: prior to displaying the first user interface, displaying a homescreen that includes an application affordance corresponding to a health monitoring application;	The AliveCor Products further comprise one or more programs including instructions for “prior to displaying the first user interface, displaying a homescreen that includes an application affordance corresponding to a health monitoring application.” The Kardia App on the “first electronic device” “display[s] a homescreen that includes an application affordance corresponding to a health monitoring application” at least because, for example, the Kardia App displays an application where users can select “Record your EKG.” <i>See, e.g.:</i>

EXHIBIT D

Claim 22	AliveCor Products
	Recording an EKG 1. Open the app and tap "Record your EKG". 2. If this is your first time using the KardiaMobile Card, follow the on-screen instructions to set up and choose your device. 3. Pick up the KardiaMobile Card using your index finger and thumb; and press the power button using your thumb. 

EXHIBIT D

Claim 22	AliveCor Products
	4. Lay the device on a flat surface. Make sure the device is in the correct orientation with the AliveCor logo and brand name "KardiaMobile" in the top left. 5. When ready, place a finger or the thumb from each hand on the top two electrodes. ○ There's no need to squeeze or press down firmly.  6. The app will indicate when you have good contact as you begin your recording. 7. Hold still as you watch the timer count down from 30 seconds, until your EKG recording is complete. 8. The device will turn off automatically after use. KardiaMobile Card IFU (APL-ALV00010513) at 0520–0521.

EXHIBIT D

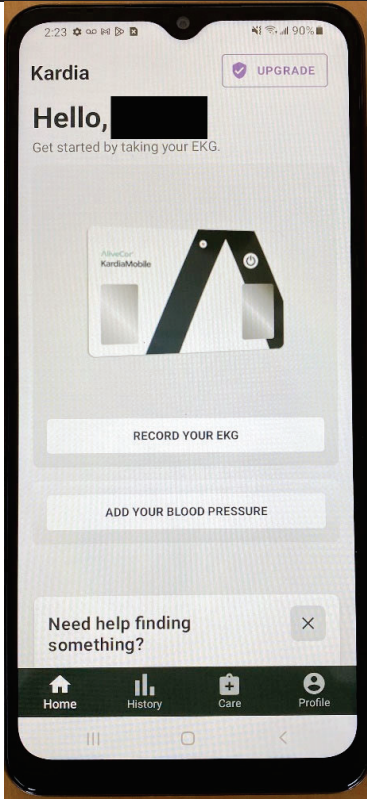
Claim 22	AliveCor Products
	 Screenshot from the Kardia App.

EXHIBIT D

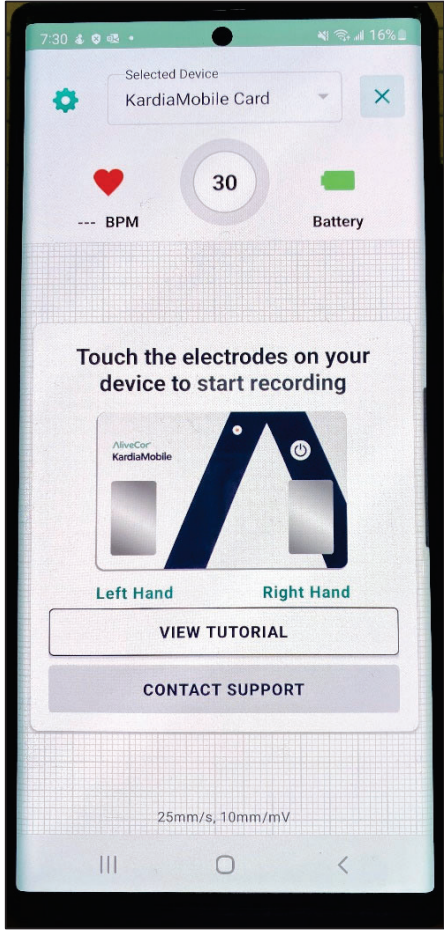
Claim 22	AliveCor Products
	 <i>Id.</i>

EXHIBIT D

Claim 22	AliveCor Products
[22.b] detecting, via the one or more input devices, a user activation of the application affordance; and in response to detecting the user activation of the application affordance, displaying, on the display, the first user interface	The AliveCor Products further comprise one or more programs including instructions for “detecting, via the one or more input devices, a user activation of the application affordance; and in response to detecting the user activation of the application affordance, displaying, on the display, the first user interface.” For example, when a user selects “Record your EKG” on the Kardia App, the “first user interface” is displayed. <i>See, e.g.:</i>

EXHIBIT D

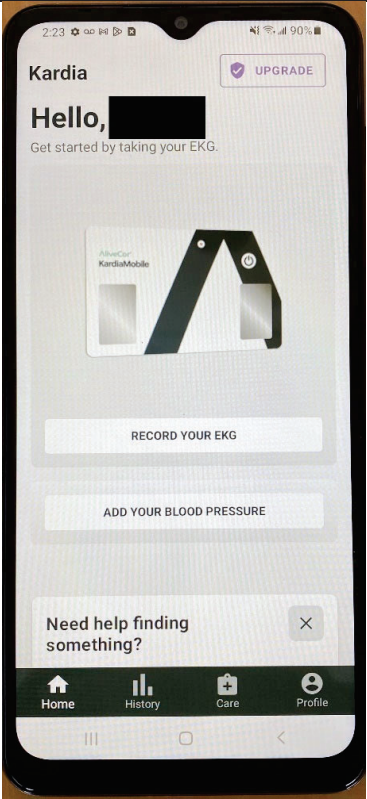
Claim 22	AliveCor Products
	 Screenshot from the Kardia App.

EXHIBIT D

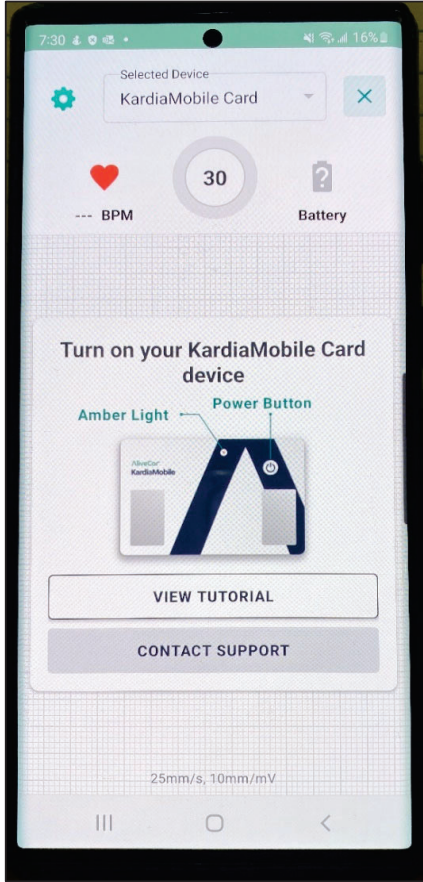
Claim 22	AliveCor Products
	 <i>Id.</i>

EXHIBIT D

4. Dependent Claim 24

Claim 24	AliveCor Products
[24] The non-transitory computer-readable storage medium of claim 20, wherein the biometric sensor is a contact-based sensor, and wherein the first input with the biometric sensor satisfies the first criteria when a contact is detected on the biometric sensor.	The AliveCor Products practice all of the limitations of claim 20, as discussed above. <i>See supra</i>, claim 20. The AliveCor Products further comprise a biometric sensor “wherein the biometric sensor is a contact-based sensor, and wherein the first input with the biometric sensor satisfies the first criteria when a contact is detected on the biometric sensor.” For example, the biometric sensors on the KardiaMobile Card are “contact-based sensor[s].” <i>See, e.g.:</i> 

EXHIBIT D

Claim 24	AliveCor Products
	KardiaMobile Card Store Front (APL-ALV00010893). Arrhythmias don't wait for the doctor's office, so we created a portable, durable personal EKG that goes anywhere you go. KardiaMobile Card is as thin and light as a credit card, fits perfectly in your wallet, and records an accurate, medical-grade EKG in seconds. • Thin and light as a credit card • Bluetooth enabled, no WiFi required • FDA-Cleared to detect AFib • Detect up to six of the most common arrhythmias* <i>Id.</i> What is KardiaMobile Card? KardiaMobile Card is the first and only credit-card-sized personal EKG to be cleared by the FDA. It's thin and light enough to fit perfectly in your wallet, so you can take it with you anywhere. KardiaMobile Card uses Bluetooth to connect to your phone and record a medical-grade, single-lead EKG in seconds, no WiFi required. KardiaMobile Card can detect AFib, Bradycardia, and Tachycardia, with more determinations available with a KardiaCare membership (such as Sinus Rhythm with PVCs, Sinus Rhythm with Wide QRS, and Sinus Rhythm with SVE). <i>Id.</i>

EXHIBIT D

Claim 24	AliveCor Products
	Accurate EKG results in seconds KardiaMobile Card is an FDA-cleared personal EKG that can detect up to six of the most common arrhythmias. Using clinically validated EKG technology and our advanced algorithm, you'll get an accurate analysis of your heart rhythm with every recording in just 30 seconds. <i>Id.</i>

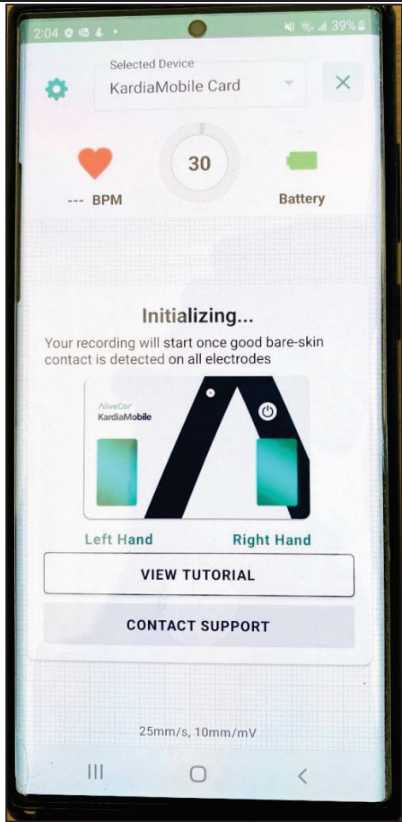
EXHIBIT D

Claim 24	AliveCor Products
	Indications For Use The KardiaMobile Card System is intended to record, store and transfer single-channel electrocardiogram (ECG/EKG) rhythms. The KardiaMobile Card System also displays ECG rhythms and output of ECG analysis from AliveCor's KardiaAI platform including detecting the presence of normal sinus rhythm, atrial fibrillation, bradycardia, tachycardia, and others. The KardiaMobile Card System is intended for use by healthcare professionals, patients with known or suspected heart conditions and health conscious individuals. The device has not been tested and is not intended for pediatric use. Features & Functionality KardiaMobile Card is a personal EKG device that is capable of recording a Single-Lead EKG. It has two electrodes on the top surface and is powered by a non-replaceable battery. Bluetooth is used to wirelessly transmit EKG data from the device to your smartphone or tablet. What is an EKG? Also known as an electrocardiogram or ECG, an EKG is a test that detects and records the strength and timing of the electrical activity in your heart. Each heartbeat is triggered by an electrical impulse. Your EKG represents the timing and strength of these impulses as they travel through your heart. Single-lead EKG A Single-Lead EKG is the simplest way to record your heart rhythm. It measures a single view of the heart. It is taken by laying the device on a flat surface near your smartphone and placing fingers from the left and right hand on the top two electrodes of the device. This is comparable to Lead I on standard EKG machines used in the hospital or doctor's office. KardiaMobile Card IFU (APL-ALV00010513) at 0518.

EXHIBIT D

Claim 24	AliveCor Products
	5. When ready, place a finger or the thumb from each hand on the top two electrodes. ○ There's no need to squeeze or press down firmly.  6. The app will indicate when you have good contact as you begin your recording. 7. Hold still as you watch the timer count down from 30 seconds, until your EKG recording is complete. <i>Id.</i> at 0520. For example, when the KardiaMobile Card detects that a user's skin makes sufficient contact with the "biometric sensor" in the KardiaMobile Card, the "first criteria" of a stable connection between a user's skin and the electrodes is met. <i>See, e.g.:</i>

EXHIBIT D

Claim 24	AliveCor Products
	A screenshot of the Kardia Mobile app interface on a smartphone. At the top, the status bar shows the time 2:04, signal strength, and battery level at 39%. The app interface includes a 'Selected Device' dropdown menu set to 'KardiaMobile Card'. Below this are three icons: a heart icon with '--- BPM', a circular timer showing '30', and a battery icon labeled 'Battery'. A large 'Initializing...' section follows, with text stating 'Your recording will start once good bare-skin contact is detected on all electrodes'. This section contains a diagram of a hand with two electrodes labeled 'Left Hand' and 'Right Hand'. Below the diagram are two buttons: 'VIEW TUTORIAL' and 'CONTACT SUPPORT'. At the bottom, technical specifications '25mm/s, 10mm/mV' are displayed above the Android navigation bar.

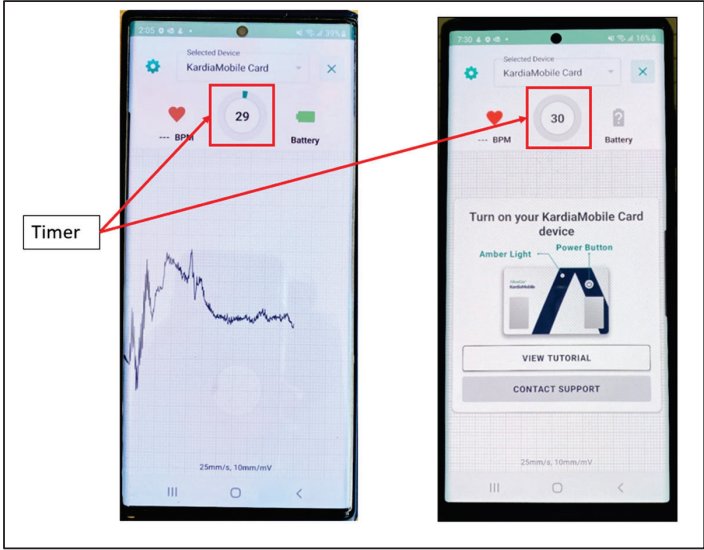
Screenshot of the Kardia App.

EXHIBIT D

Claim 24	AliveCor Products
	5. When ready, place a finger or the thumb from each hand on the top two electrodes. ○ There's no need to squeeze or press down firmly.  6. The app will indicate when you have good contact as you begin your recording. 7. Hold still as you watch the timer count down from 30 seconds, until your EKG recording is complete. KardiaMobile Card IFU (APL-ALV00010513) at 0520.

EXHIBIT D

5. Dependent Claim 37

Claim 37	AliveCor Products
[37] The non-transitory computer-readable storage medium of claim 20, wherein the indication of progress is a countdown timer.	The AliveCor Products practice all of the limitations of claim 20, as discussed above. <i>See supra</i>, claim 20. The Kardia App further “indicat[es] [] progress [with] a countdown timer.” <i>See, e.g.:</i>  Screenshots of the Kardia App.