

**IN THE UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF NEW YORK**

JOSEPH WIESEL)	
Plaintiff,)	CIVIL ACTION NO.:
)	1:19-cv-7261
v.)	
)	
APPLE INC.)	JURY TRIAL DEMANDED
Defendant.)	

COMPLAINT

Plaintiff JOSEPH WIESEL (“Dr. Wiesel” or “Plaintiff”), by and through his attorneys, hereby alleges for his Complaint for Patent Infringement against Apple Inc. (“Apple” or “Defendant”) on personal knowledge as to his own activities and on information and belief as to all other matters, as follows:

NATURE OF THE ACTION

1. This action arises under 35 U.S.C. § 271 for Defendant’s infringement of Dr. Wiesel’s U.S. Patent No. 7,020,514 (the “514 Patent”).

PARTIES

2. Plaintiff is an individual who resides in the Eastern District of New York, in West Hempstead, New York. Plaintiff is a citizen of New York and conducts professional activities in New York.

3. Upon information and belief, Defendant Apple is a Delaware corporation with a place of business at 1 Infinite Loop, Cupertino, California 95014. Apple may be served with process through its registered agent for service in New York: CT Corporation System, 28 Liberty St., New York, New York 10005.

JURISDICTION AND VENUE

4. This is an action for patent infringement arising under the provisions of the Patent Laws of the United States of America, Title 35 of the United States Code, §§ 100, et seq.

5. Subject matter jurisdiction over Dr. Wiesel's claims is conferred upon this Court by 28 U.S.C. § 1331 (federal question jurisdiction) and 28 U.S.C. § 1338(a) (patent jurisdiction).

6. This Court also has personal jurisdiction over Apple because, upon information and belief, Apple has committed acts giving rise to this action within New York and within this District. Apple markets, sells, and/or offers for sale the Accused Products (defined *infra*) nationally, including to New York, including through physical retail stores located within this district, and therefore, Apple has established minimum contacts with this forum. Apple also regularly conducts business in this forum, engages in other persistent courses of conduct and derives substantial revenue from products and/or services provided in this District and in New York, demonstrating that Apple has purposefully established substantial, continuous and systematic contacts with New York.

7. The exercise of personal jurisdiction comports with Apple's right to due process, because it has purposefully availed itself of the privilege of conducting activities nationally, including within the Eastern District of New York, such that it should reasonably anticipate being haled into court here.

8. Venue is proper in this District pursuant to 28 U.S.C. § 1391(b) and (c) and § 1400(b) at least because Plaintiff resides and works within this District, and Defendant, upon information and belief, has established places of business in this District, including

at 123 Flatbush Avenue, Brooklyn, NY 11217 and 247 Bedford Avenue, Brooklyn, New York 11211, transacts business within this district, including one or more acts of making, selling, using, importing and/or offering for sale infringing products or providing support service to Apple's customers in this District, thus committing acts in this district giving rise to this action.

THE PATENT-IN-SUIT

9. The '514 Patent, entitled "Method of and apparatus for detecting atrial fibrillation," was duly and legally issued by the United States Patent and Trademark Office on March 28, 2006. A true and correct copy of the '514 Patent is attached as Exhibit A.

10. Dr. Wiesel is the inventor and owner of the '514 Patent, with retained rights to enforce and recover for any and all infringement thereof.

11. All necessary maintenance fees for the '514 Patent have been timely paid in full. The '514 Patent is valid and enforceable.

DR. WIESEL'S BACKGROUND

12. Dr. Wiesel is a board-certified cardiologist, having practiced medicine for over thirty years. He is currently a Clinical Assistant Professor of Cardiology at NYU School of Medicine. Early on in his career, Wiesel noticed a lack of available and useful technology to screen for atrial fibrillation. For over twenty years, Plaintiff has been inventing, researching and experimenting with innovative approaches for monitoring and detecting atrial fibrillation.

13. Dr. Wiesel has filed numerous patent applications relating to atrial fibrillation detection, including his first application filed in December 1999 (at a time

when Apple was just a computer company called Apple Computer, Inc., well before the introduction of the Apple Watch, iPhone, or even the iPod). To date, Dr. Wiesel has been issued five patents, and additional applications directed to detection of atrial fibrillation are currently pending. Dr. Wiesel invented and perfected a method and device for detecting atrial fibrillation by assessing whether a pulse rate pattern is regular or irregular, using sphygmomanometry or photoplethysmography. This innovative approach allowed patients to properly monitor atrial fibrillation in a non-hospital setting. Prior to this, patients could only use manual palpation of the pulse to detect atrial fibrillation. Manual palpation was rudimentary and prone to inaccuracy, especially as it was performed by patients at home or elsewhere and not by medical professionals. Dr. Wiesel's innovations, as described in the patent-in-suit, were pioneering steps in atrial fibrillation detection.

THE ACCUSED APPLE WATCH PRODUCTS

14. Upon information and belief, Defendant manufactures and sells a wristwatch device, the Apple Watch ("Apple Watch" or "Watch"). Apple recognizes the importance of monitoring and detecting atrial fibrillation and has incorporated those features into version of its watch. Since at least December 6, 2018, Apple has been publicly selling the Apple Watch Series 4 ("Series 4"), which includes an irregular pulse notification feature that checks a user's pulse rhythm and sends a notification if atrial fibrillation is detected.

15. Upon information and belief, since at least as early as September 16, 2016, Apple has been publicly selling the Apple Watch Series 1 and Series 2. Upon information and belief, since at least as early as September 22, 2017, Apple has been publicly selling the Apple Watch Series 3.

16. Upon information and belief, upon the release of the Series 4, or shortly thereafter, certain prior versions of the Apple Watch (namely, the Apple Watch Series 1-3) were provided with a software upgrade that provides irregular pulse notifications resulting from checking a pulse rhythm. *See* Exhibit B at page 2, Apple support materials entitled “Heart rate notifications on your Apple Watch”, dated September 19, 2019, a printout thereof attached herein. (also accessible at <https://support.apple.com/en-us/HT208931>).

17. Since at least as early as September 20, 2019, Apple has been publicly selling the Apple Watch Series 5.

18. Defendant has emphasized the importance of atrial fibrillation detection as a feature in the Apple Watch in its marketing and support documentation.

19. Upon information and belief, the Apple Watch Series 1-5 incorporate features claimed in the '514 Patent.

DEFENDANT’S WILLFUL ACTS

20. Since at least as early as September 20, 2017, before the launch of the Series 4, Apple has had indisputable actual knowledge of Dr. Wiesel’s '514 Patent.

21. Following an initial notice letter on or about September 20, 2017, Dr. Wiesel engaged Apple through numerous letters and claim charts, in which Dr. Wiesel informed Apple in detail that the Accused Products infringe the '514 Patent.

22. Defendant has refused to negotiate in good faith to avoid this lawsuit even after Dr. Wiesel provided Apple detailed claim charts highlighting the elements of Dr. Wiesel’s patent claims and mapping them to elements of Apple’s Watch products.

23. All of Defendant's infringing activities have been done at least since that date with knowledge, understanding and appreciation of the '514 Patent, and the rights this patent bestows on Dr. Wiesel.

24. Moreover, Defendant has continued in a course of conduct without taking sufficient steps to ensure the non-infringement of the '514 Patent by, *inter alia*, launching not one but two new infringing products, the Apple Watch Series 4 and Series 5, but also updating the software on the existing legacy Series 1, 2, and 3 Apple Watches to enable the infringing features.

25. Defendant's actions, despite continued warnings by Dr. Wiesel, evidence a willful disregard of Dr. Wiesel's rights *vis-à-vis* the '514 Patent and a desire to profit irrespective of U.S. patent laws.

COUNT 1: INFRINGEMENT OF U.S. PATENT NO. 7,020,514

26. Dr. Wiesel re-alleges and incorporates the allegations in each of the preceding paragraphs as if fully set forth herein.

27. Independent claim 1 of the '514 Patent recites, for example, a method of determining possible atrial fibrillation. The method comprises the step of detecting irregular pulse rhythms from a succession of time intervals. Each succession of time intervals corresponding to a respective interval of time between successive pulse beats of a sequence of the pulse beats. The method further comprises the step of analyzing the detected irregular pulse rhythms to make a determination of possible atrial fibrillation. The method further comprises indicating the possible atrial fibrillation from the determination.

28. Dependent claim 7 of the '514 Patent further recites, for example, the

method further including detecting the irregular pulse rhythms by monitoring changes in light transmitted through a body appendage of the individual.

29. Dependent claim 10 of the '514 Patent further recites, for example, the indication of possible atrial fibrillation further including outputting an indication that is indicative of the possible atrial fibrillation. The outputting is to a device selected from a group consisting of a printer, a display, an auditory signal generator and a vibration signal.

30. Independent claim 12 of the '514 Patent recites, for example, an apparatus for determining possible atrial fibrillation. The apparatus includes a detector configured to detect irregular pulse rhythms from a succession of time intervals. Each of the succession of time intervals corresponds to a respective interval of time between successive pulse beats of a sequence of pulse beats. The apparatus includes a processor configured to analyze the detected irregular rhythms and make a determination of possible atrial fibrillation. The apparatus further includes an indicator configured to indicate the possible atrial fibrillation based on the detection.

31. Dependent claim 16 of the '514 Patent further recites, for example the detector configured to detect irregular pulse rhythms. The irregular pulse rhythms are detected by monitoring changes in light transmitted through a body appendage of the individual.

32. Dependent claim 17 of the '514 Patent further recites, for example the indicator providing an indication of possible atrial fibrillation. The indicator includes an output device selected from a group consisting of a printer, a display, an auditory signal generator and a vibration signal. The output device is configured to output an indication

indicative of the possible atrial fibrillation.

33. Dependent claim 18 of the '514 Patent further recites, for example, the processor including at least one of a microprocessor, an application specific integrated circuit (ASIC), a programmable logic array (PLA) and a reduced instruction set chip (RISC).

34. Defendant makes, uses, sells, offers to sell, and/or imports into the United States the Apple Watch Series 1-5, a watch/smartwatch that provides “irregular rhythm notifications” to help “patients identify early warning signs” (the “Accused Products”).

35. Dr. Wiesel’s patented technology is a critical part of the Apple Watch and is used to drive customer demand. Apple’s Chief Operating Officer Jeff Williams, at Apple’s September 12, 2018 Launch Event Keynote, announced a new Apple Watch feature using the “essential” optical heart sensor of the Apple Watch. “The Second feature is related to heart rhythm, and this is a big deal. Apple Watch can now screen your heart rhythm in the background, and it sends you a notification if it detects an irregular rhythm that appears to be atrial fibrillation.” *See* <https://singjupost.com/apple-september-12-2018-event-keynote-full-transcript/15/?amp=1&pdf=12183&singlepage=1> (*See* page 8 of a printout thereof attached as Exhibit C). The Accused Products include, without limitation, the Apple Watch Series 1-5, and all variations known to Plaintiff. The Accused Products incorporate the features claimed in numerous claims in the '514 Patent.

36. The Accused Products utilize a photoplethysmography (“PPG”) sensor to detect atrial fibrillation. *See* Apple’s DEN180042 submission to the Food and Drug Administration, “De Novo Classification Request For Irregular Rhythm Notification

Feature”, a printout thereof attached herein as Exhibit D. (also accessible at https://www.accessdata.fda.gov/cdrh_docs/reviews/DEN180042.pdf).

37. The Accused Products incorporate a PPG sensor that is able “to identify episodes of irregular heart rhythms consistent with atrial fibrillation” by “individual pulses when they reach the periphery and thereby measure the beat-to-beat intervals.” *Id* at page 3. Therefore, the Accused Products, as explained by Defendant to the FDA, detect and analyze irregular pulse rhythms for determination of atrial fibrillation, in a “one-minute beat-to-beat sequence.” *Id*. Based on Apple’s representations to the FDA, the irregular rhythm notification feature was granted De Novo classification by the FDA for users 22 years and older in the U.S. with no prior history of AFib. *See id*.

38. The Accused Products include a method for monitoring changes in light transmitted through an appendage, in order to detect irregular pulse rhythms. In Apple’s De Novo Classification, the use of green LED lights as part of the PPG is disclosed, which monitors light changes “to identify episodes of irregular heart rhythms consistent with atrial fibrillation.” *See id* at page 3. The infrared light of the Apple Watch PPG may also be used to identify episodes of irregular heart rhythms

39. The claims of the ’514 Patent, including infringed claims 1, 7, 10, 12, and 16-18, when viewed as a whole, including as an ordered combination, are not merely well-understood, routine, or conventional steps, technologies or components. The claimed inventions were not well known, routine, or conventional at the time of the invention, nearly twenty years ago, and represent specific improvements over the prior art and prior existing systems and methods, as discussed in the ’514 Patent.

40. A device embodying the claims of the ’514 Patent is intended to be used

at home, by a layperson, to detect possible atrial fibrillation. Claim 1 recites detecting irregular pulse rhythms by determining the time interval between each irregular pulse beat and the following beat. However, this time interval cannot be measured without the use of an electronic device (such as the accused Apple Watch), as the time interval is in fractions of a second. An electronic device is thus needed to detect irregular pulse rhythms, as well as analyze and determine possible atrial fibrillation.

41. The use of PPG to detect atrial fibrillation is also not abstract, and even if it were, the invention of the '514 Patent adds a specific concrete implementation to solve a specific problem. *See, e.g.*, '514 patent (col.5 ll.57-60). Moreover, as the '514 Patent explains, at the time of the filing of the application, devices that detected an irregular heartbeat pattern to determine possible atrial fibrillation did not exist and thus the features were clearly not well-understood, routine or conventional activities: "There are several devices available that measure both blood pressure and pulse rate, but none of these devices is capable of monitoring, detecting and/or communicating whether or not an irregular heartbeat pattern is present to indicate possible atrial fibrillation. The commercially available devices measure the number of pulse beats over a preset time interval, usually ten (10) seconds, but these devices neither analyze nor determine the presence of irregular heartbeat rhythms." '514 Patent (col.3 ll.33-41).

42. Further, claim 7 recites the use of light source transmitted through an appendage to monitor changes of light. This cannot be done manually, requiring the use of a PPG to implement. Monitoring changes in light transmitted through a body appendage of an individual to detect irregular pulse rhythms is not a well-understood, routine, or conventional activity; nor was it so at the time of filing of the application that

issued as the '415 Patent. Moreover, the combination of all elements of dependent claim 7 is and was not a well-understood, routine, or conventional activity at the time of filing of the application.

43. Defendant has made, and continues to make, atrial fibrillation detection a highlighted feature of the Apple Watch. In November 2017, Apple sponsored a heart study, carried out by Stanford Medical School, to demonstrate the ability of wearable technology to detect atrial fibrillation. (A printout of an article in *Stanford Medicine*, titled “Apple Heart Study demonstrates ability of wearable technology to detect atrial fibrillation”, dated March 16, 2019, is attached as Exhibit E.) As shown in Exhibit E, Apple’s study was the largest cardiac clinical trial ever performed, with more than 400,000 participants. Apple undertook this massive study to prove that the Apple Watch can effectively detect atrial fibrillation.

44. In addition to the heart study, Apple has heavily marketed atrial fibrillation detection as a key feature of the Series 4 and 5 (and Series 1, 2, and 3 with updated software) watches and highlighted the Apple Watches’ ability to receive irregular rhythm notifications not only to end users, but also to healthcare providers. Attached at Exhibit F is a printout of Apple marketing materials directed to healthcare providers entitled, “Apple Watch. Helping your patients identify early warning signs”. Apple explains that the “[i]rregular rhythm notifications use the optical heart sensor to detect the pulse wave at the wrist and look for variability in beat-to-beat intervals when the user is at rest. If the algorithm repeatedly detects an irregular rhythm suggestive of AFib, your patient will receive a notification and the date, time, and beat-to-beat heart rate will be recorded in the Health app.” *See id* at page 2.

45. Defendant’s Apple Watch Series 4 is advertised as being able to “identify[] abnormal pulse rates that may suggest the presence of atrial fibrillation,” with these detections occurring using an optical sensor to determine light transmission through an appendage. *See* Exhibit D.

Compare Apple Watch Models

	High Heart Rate Notification	Low Heart Rate Notification	Irregular Rhythm Notification	ECG App	Fall Detection
Sensors	Optical heart sensor / PPG	Optical heart sensor / PPG	Optical heart sensor / PPG	Electrical heart sensor / electrodes	Next generation accelerometer and gyroscope
Apple Watch Series 1, 2, 3	●	●	●	●	●
Apple Watch Series 4	●	●	●	●	●

*Note: Original Apple Watch does not support these functions

See id.

46. These features of course continued in the Series 5. “Unusually high or low heart rates and irregular heart rhythms (known as arrhythmias) could be signs of a serious condition.... With notifications in the Heart Rate app, Apple Watch Series 5 can check your heart and alert you to these irregularities.” *See* Exhibit G, page 5, marketing materials for the Apple Watch Series 5 - Health, a printout of which is attached.

47. It is estimated that, to date, Apple has sold between 50 million – 100 million watches with either this functionality prepackaged, or available as a downloadable upgrade. It is estimated that an additional 30 million – 40 million watches will be sold with this functionality by the time the ’514 Patent expires.

48. The Accused Products include a method of determining possible atrial fibrillation. For example, Defendant states that the Apple Watch includes the ability to

“screen your heart rhythm in the background and it sends you a notification if it detects an irregular rhythm that appears to be atrial fibrillation.” Exhibit C. The Accused Products include detecting irregular pulse rhythms from a succession of time intervals each corresponding to a respective interval of time between successive pulse beats of a sequence of pulse beats. For example, Defendant states:

The optical heart sensor in Apple Watch uses what is known as photoplethysmography. This technology, while difficult to pronounce, is based on a very simple fact: Blood is red because it reflects red light and absorbs green light. Apple Watch uses green LED lights paired with light-sensitive photodiodes to detect the amount of blood flowing through your wrist at any given moment. When your heart beats, the blood flow in your wrist — and the green light absorption — is greater. Between beats, it’s less. By flashing its LED lights hundreds of times per second, Apple Watch can calculate the number of times the heart beats each minute — your heart rate. The optical heart sensor supports a range of 30–210 beats per minute. In addition, the optical heart sensor is designed to compensate for low signal levels by increasing both LED brightness and sampling rate.

The optical heart sensor can also use infrared light. This mode is what Apple Watch uses when it measures your heart rate in the background, and for heart rate notifications. Apple Watch uses green LED lights to measure your heart rate during workouts and Breathe sessions, and to calculate walking average and Heart Rate Variability (HRV).

Exhibit H, page 2, Apple support materials entitled “Your heart rate. What it means and where on Apple Watch you’ll find it”, dated September 19, 2019, a printout thereof attached herein.

(also accessible at <https://support.apple.com/en-us/HT204666>).

49. Apple support materials continue to explain:

Your Apple Watch will occasionally look at your heart beat to check for an irregular rhythm that might be atrial fibrillation (AFib)... AFib is a type of irregular heart rhythm. AFib occurs when the heart beats in an irregular pattern. It's a common form of irregular heart rhythm where the upper chambers of the heart beat out of sync with the lower chambers.

Exhibit B at page 1.

50. The Accused Products further include analyzing the detected irregular pulse rhythms to make a determination of possible atrial fibrillation. For example, Defendant states that the Apple Watch can “screen your heart rhythm in the background and it sends you a notification if it detects an irregular rhythm that appears to be atrial fibrillation.” Exhibit C, p. 8 of the printout. The Accused Products further include indicating the possible atrial fibrillation from the determination. For example, Defendant states that the Apple Watch “alert you to these irregularities”. Exhibit G.

51. The Accused Products further include detecting the irregular pulse rhythms by monitoring changes in light transmitted through a body appendage of the individual. For example, Defendant states that the Watch’s “optical sensor uses green LED lights paired with light sensitive photodiodes to detect blood volume pulses in a user’s wrist using photoplethysmography. These sensors and underlying algorithms are the basis for the heart rate and heart rate variability (HRV) detection” and “to determine HRV, Apple watch captures a tachogram...each tachogram is classified...to determine if an irregular rhythm may be present.” See Exhibit I, page 3, Apple support materials

entitled “Using Apple Watch for Arrhythmia Detections”, dated December 2018.

52. The Accused Products further include outputting an indication of the possible atrial fibrillation by outputting to a device selected from a group consisting of a printer, a display, an auditory signal generator and a vibration signal. For example, Defendant illustrates that notifications may be shown as a display, indicating irregular rhythms. *See* Exhibit B, p. 2.

53. The Accused Products further include the processor including at least one of a microprocessor, an application specific integrated circuit (ASIC), a programmable logic array (PLA) and a reduced instruction set chip (RISC). Upon information and belief, Apple’s processor in the Apple Watch includes an ASIC.

54. Therefore, the Accused Products meet all of the limitations of at least claims 1, 7, 10, 12, and 16-18 of the ’514 Patent, literally or under the doctrine of equivalents.

Willful Infringement

55. Dr. Wiesel re-alleges and incorporates the allegations in each of the preceding paragraphs as if fully set forth herein.

56. Upon information and belief, all of Defendant’s infringing activities have been done with knowledge, understanding and appreciation of the ’514 Patent, and the rights this patent bestows on Dr. Wiesel.

57. Upon information and belief, Defendant has known about the ’514 Patent, and their pertinence to their business activities, for several years.

58. For at least the past two years, rejecting all serious offers to discuss a resolution of this dispute, Defendant has continued in a course of conduct without taking sufficient steps to ensure the non-infringement of the claims of the ’514 Patent by, *inter*

alia, continuing to sell, offer for sale and manufacture products whose use in the manner directed by Defendant infringes the '514 Patent.

59. Defendant's actions, in spite of continued warnings by Dr. Wiesel, evidence a willful disregard of Dr. Wiesel's rights *vis-à-vis* the '514 Patent and a desire to profit irrespective of U.S. patent law.

60. Defendant's acts of infringement have caused and will continue to cause substantial and irreparable damage to Dr. Wiesel.

61. Plaintiff has no adequate remedy at law for Apple's infringement of the '514 Patent.

62. Upon information and belief, Apple's infringement of the claims of the '514 Patent will continue unless enjoined by this Court.

DAMAGES

63. Dr. Wiesel has sustained damages as a direct and proximate result of Defendant's infringement of the '514 Patent.

64. As a consequence of Defendant's past infringement of the '514 Patent, Dr. Wiesel is entitled to the recovery of past damages in the form of, at a minimum, a reasonable royalty.

65. As a consequence of Defendant's continued and future infringement of the '514 Patent, Dr. Wiesel is entitled to royalties for Apple's infringement of the '514 Patent on a going-forward basis.

66. Defendant's infringement of the '514 Patent has been and continues to be willful, intentional, and deliberate. Apple knew or should have known that making, having made, using, offering to sell, selling, and/or importing the Accused Products would directly infringe the '514 Patent; yet Apple continues to infringe the '514 patent.

PRAYER FOR RELIEF

WHEREFORE, Dr. Wiesel respectfully requests that this Court enter judgment against Defendant as follows:

A. Adjudge that Defendant has infringed at least claims 1, 7, 10, 12, and 16-18 of U.S. Patent No. 7,020,514, in violation of 35 U.S.C. §§ 271(a) and (b);

B. Award a permanent injunction enjoining Apple and its affiliates, officers, agents, employees, attorneys, and all other persons acting in concert with Apple, from infringing U.S. Patent No. 7,020,514;

C. Award damages to be paid by Defendant adequate to compensate Dr. Wiesel for Defendant's past willful infringement and any continuing or future infringement up until the date such judgment is entered, and in no event less than a reasonable royalty, including interest, costs and disbursements pursuant to 35 U.S.C. § 284 and, if necessary to adequately compensate Plaintiff for Defendant's infringement, an accounting of all infringing sales including without limitation those sales not presented at trial;

D. Order for Defendant to continue to pay royalties to Dr. Wiesel for infringement of U.S. Patent No. 7,020,514, on a going-forward basis at an increased amount to account for willfulness;

E. Award Dr. Wiesel treble damages based on any infringement found to be willful pursuant to 35 U.S.C. § 284;

F. Adjudge that Defendant willfully infringed the patent-in-suit and this case be exceptional under 35 U.S.C. § 285 and award enhanced damages, including costs and attorneys' fees, to Dr. Wiesel;

G. Award Dr. Wiesel pre-judgment and post-judgment interest at the maximum rate permitted by law on his damages; and

H. Grant Dr. Wiesel such further relief as this Court deems just and proper under the circumstances.

DEMAND FOR JURY TRIAL

Dr. Wiesel demands a trial by jury on all claims and issues so triable.

Dated: December 27, 2019

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