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ELECTRONIC PAYMENT RECEIPT

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Title of Invention

MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

Application Information

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MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

Cross-Reference to Related Application

[0001] The present application is a divisional of U.S. Application No. 18/489,517, filed on October 18, 2023, which is a continuation of U.S. Application No. 18/450,517, filed August 16, 2023, which is a continuation of U.S. Application No. 17/653,748, filed March 7, 2022, now U.S. Patent No. 11,770,756, which is a continuation of U.S. Application No. 15/929,609, filed May 12, 2020, now U.S. Patent No. 11,304,118, which is a continuation of U.S. Application No. 16/012,513, filed June 19, 2018, now U.S. Patent No. 10,660,015, which is a divisional of U.S. Application No. 15/800,885, filed November 1, 2017, now U.S. Patent No. 10,219,199, which is a continuation of U.S. Application No. 15/251,882, filed August 30, 2016, now U.S. Patent No. 9,832,708, which is a continuation of U.S. Application No. 12/264,711, filed November 4, 2008, now U.S. Patent No. 9,462,411. The disclosures of which are hereby incorporated herein by reference as if set forth fully herein.

Field of the Invention

[0002] This invention relates to systems, devices and/or methods that may be used to provide an adaptive enablement of one or more communications modes based upon having satisfied a proximity criterion. The one or more communications modes may be one or more wireless and/or non-wireless communications modes.

Background of the Invention

[0003] Adaptivity and mobility aspects of wireless communications are becoming more important in people's lives. People are relying more and more on mobile wireless devices to perform an ever-increasing suite of functions such as, for example, navigation, e-mail, web surfing, streaming video, etc. However, there is a rigidity aspect that is associated with wireless mobile devices in that a wireless mobile device is typically configured to be capable of performing a predetermined

number of functions independent of its location, Time-of-Day (ToD), velocity, acceleration, temperature, sensing of a signal, etc. It would, for example, be desirable to have a mobile wireless device act as a "wallet" (over and above other functions) only when it is time to pay for an item and not act as a wallet when there is no need to do so.

[0004] The present invention, addresses these limitations (i.e., the rigidity) of current wireless mobile devices. Accordingly, embodiments of the present invention provide systems, devices and/or methods that may be used to enable adaptively one or more modes/functions of a device based upon having satisfied by the device (or another device) a proximity condition/criterion.

[0005] As used herein, the term "end-user device," "wireless mobile device," "mobile wireless device" or simply "device" includes any electronic device that may be used to transmit/receive information wirelessly and/or non-wirelessly such as, for example, a Digital Subscriber Line (DSL) modem/transceiver; a cable modem/transceiver; a cellular and/or satellite radiotelephone with or without a multi-line display; Personal Communications System (PCS) terminals that may combine a radiotelephone with data processing, facsimile and/or data communications capabilities; Personal Digital Assistants (PDA) that can include a radio frequency transceiver and/or a pager, Internet/Intranet access, Web browser, organizer, calendar and/or a global positioning system (GPS) receiver; laptop and/or palmtop computers or other appliances, which may (or may not) include a radio frequency transceiver.

[0006] An end-user device also may be referred to herein as a radiotelephone, radioterminal, mobile terminal, user device, wireless device, device and/or terminal; etc. As used herein, the term end-user device and/or any of its synonyms also include(s) any other radiating device/equipment/source that may have time-varying or fixed geographic coordinates and/or may be portable, transportable, installed in a vehicle (aeronautical, maritime, or land-based) and/or situated and/or configured to operate locally and/or in a distributed fashion over one or more terrestrial and/or extra-terrestrial location(s).

Brief Description of the Drawings

[0007] FIG. 1 depicts a communication system that detects a proximity criterion in accordance with the claimed embodiments;

[0008] FIG. 2 depicts another communication system that detects a proximity criterion in accordance with the claimed embodiments;

[0009] FIG. 3 is a flow chart illustrating a method of detecting proximity criterion and enabling functions or modes on devices in accordance with the claimed embodiments.

Detailed Description

[0010] The present invention now will be described more fully hereinafter with reference to specific embodiments and/or the accompanying drawing(s), in which embodiments of the invention are shown. This invention may, however, be embodied in many different forms and should not be construed as limited to the embodiments set forth herein. Rather, these embodiments are provided so that this disclosure will be thorough and complete, and will fully convey the scope of the invention to those skilled in the art.

[0011] It will be understood that when an element is referred to as being "connected," "coupled" and/or "responsive" to another element, it can be directly connected, coupled and/or responsive to the other element or intervening elements may be present. Furthermore, "connected," "coupled" and/or "responsive" as used herein may include wirelessly connected, coupled and/or responsive. The terminology used herein is for the purpose of describing particular embodiments only and is not intended to be limiting of the invention. As used herein, the singular forms "a," "an" and/or "the" are intended to include the plural forms as well, unless expressly stated otherwise. It will be further understood that the terms "includes," "comprises," "including" and/or "comprising," when used in this specification, specify the presence of stated features, integers, steps, operations, elements, and/or components, but do not preclude the presence and/or addition of one or more other features, integers, steps, operations, elements, components, and/or groups thereof.

[0012] Unless otherwise defined, all terms (including technical and scientific terms) used herein have the same meaning as commonly understood by one of ordinary skill in the art to which this invention belongs. It will be further understood that terms, such as those defined in commonly used dictionaries, should be interpreted as having a meaning that is consistent with their meaning in the context of the relevant art and the present disclosure, and will not be interpreted in an idealized or overly formal sense unless expressly so defined herein.

[0013] Furthermore, it will be understood that although terms such as, for example, first and second may be used herein to describe various elements, these elements should not be limited by these terms. These terms are only used to distinguish one element from another element. Thus, a first element below could be termed a second element, and similarly, a second element may be termed a first element without departing from the teachings of the present invention. As used herein, the term "and/or" includes any and all combinations of one or more of the associated listed items. The symbol "/" is also used as a shorthand notation for "and/or."

[0014] A mobile device such as, for example, a wireless communications device (e.g., a wireless terminal, a wireless/mobile phone, a Personal Digital Assistant (PDA), a smart phone, a multi-media device including Global Positioning System (GPS) capability, etc.) and/or one or more systems that is/are providing service to the mobile device and/or to a device other than the mobile device, may be configured to enable one or more modes/functions of the mobile device and/or of the device other than the mobile device, responsive to a proximity criterion having been satisfied.

[0015] In some embodiments, determining whether the proximity criterion is satisfied comprises determining by the mobile device and/or by the one or more systems of a location associated with the mobile device. In other embodiments, determining whether the proximity criterion is satisfied comprises determining by the device other than the mobile device and/or by the one or more systems of a location that is associated with the device other than the mobile device. The determining by the mobile device, by the device other than the mobile device and/or by the one or more systems may, in some embodiments, comprise reception and/or processing of

GPS signals in order to determine a Time-of-Day (ToD), Time-of-Month (ToM), Time-of-Year (ToY), velocity, acceleration and/or position (in three-dimensional space). In other embodiments, the determining may be based upon the mobile device and/or the device other than the mobile device detecting a signal that is being radiated by a device that is attached to and/or is installed in/on an entity (i.e., a device that is associated with the entity). In still further embodiments, the device other than the mobile device may send a message to the mobile device requesting enablement of one or more modes/functions of the mobile device and/or of the device other than the mobile device and, responsive to an affirmative response by the mobile device, the mobile device and/or the device other than the mobile device may enable the one or more modes/functions of the mobile device and/or of the device other than the mobile device.

[0016] The entity may, for example, be a person, an animal, a vehicle (ground-based, maritime and/or aeronautical), a building (residential, commercial and/or office), a product that is for sale, a store that sells one or more products, a check-out counter in a store, a shopping cart that may be used by a customer to carry one or more products selected by the customer for purchase, one or more locations in time and/or space, a geographic area and/or a multi-dimensional region in time and/or space.

[0017] The signal that is being radiated by the device that is attached to and/or is installed in the entity may include an element that may be *a priori* known by the mobile device and/or by the device other than the mobile device. As such, according to some embodiments, the mobile device and/or the device other than the mobile device may, when proximate to the entity, receive the signal that is being radiated by the device that is attached to and/or is installed in the entity, detect the element that may be *a priori* known by the mobile device and/or by the device other than the mobile device and thus determine that the mobile device and/or the device other than the mobile device is proximate to the entity.

[0018] It will be understood that the signal that is being radiated by the device that is attached to and/or is installed in the entity may be radiated at a relatively low power level so that it may be detected by the mobile device and/or by the device other

than the mobile device only over a relatively small distance between, for example, the mobile device and the device that is attached to and/or is installed in the entity (e.g., over a distance that is, for example, less than 100 meters, in some embodiments or less than 10 meters, in other embodiments). It will also be understood that the element that may be *a priori* known by the mobile device and/or by the device other than the mobile device may comprise an identity associated with the entity. In some embodiments, the identity may comprise a number, a word/name, a location, a Time-of-Day (ToD), a unique code, a region of space and/or time, etc.

[0019] According to some embodiments, the mobile device and/or the device other than the mobile device may be configured so that a user of the mobile device and/or a user of the device other than the mobile device, a service provider providing service to the mobile device and/or providing service to the device other than the mobile device and/or a manufacturer of the mobile device and/or the device other than the mobile device may program the mobile device and/or the device other than the mobile device to recognize the element and/or the identity associated with the entity.

[0020] A number of examples/applications of the concepts disclosed above will now be described to further illustrate the scope and spirit of the present invention to those skilled in the art.

[0021] **Example/Application No. 1:** A motor vehicle, such as, for example, a car, may be configured with a low-power radiator that radiates a signal that includes an identity of the motor vehicle, a velocity of the motor vehicle, an acceleration of the motor vehicle, a position of the motor vehicle, a Time-of-Day (ToD), a Time-of-Month (ToM), a Time-of-Year (ToY) and/or an indication of a content of the motor vehicle. Now imagine a person who is associated with the motor vehicle (e.g., an owner/driver of the motor vehicle) is approaching the motor vehicle. Let us assume that the person who is approaching the motor vehicle and is associated with the motor vehicle carries a wireless communications device. The wireless communications device may be configured to sense the signal that is being radiated by the low-power radiator, detect the identity of the motor vehicle and compare the detected identity with one or more *a priori* identities that are stored in the wireless communications

device. If a match is found, the communications device may be configured to selectively enable, responsive to the match, for example, a "pay toll" function. Accordingly, as the motor vehicle approaches an access point that is configured to radiate a signal associated with toll collection, the communications device, responsive to having detected the signal associated with toll collection, may be configured to transmit information that may be used by the access point and/or by an associated toll collection system that may be connected to the access point to debit an account that is associated with a user and/or owner of the communications device. In further embodiments of the present invention, if the match is found, the communications device may be configured to selectively enable, responsive to the match and responsive to a velocity of the motor vehicle, an acceleration of the motor vehicle, a position of the motor vehicle, a Time-of-Day (ToD), a Time-of-Month (ToM), a Time-of-Year (ToY) and/or a content of the motor vehicle, for example, the "pay toll" function. It will be understood that the velocity of the motor vehicle, the acceleration of the motor vehicle, the position of the motor vehicle, the ToD, the ToM and/or the ToY may be provided by the communications device (based on GPS signal processing, and/or based on any other means, that may be performed/implemented by the communications device and/or by a network that may be providing service to the communications device) and/or by the motor vehicle.

[0022] The wireless communications device may be configured to keep the pay toll function enabled for as long as the wireless communications device is able to sense the signal that is being radiated by the low-power radiator (i.e., the signal that includes an identity of the motor vehicle) and to selectively disable the pay toll function a short time after the wireless communications device is no longer able to sense the signal that is being radiated by the low-power radiator. In further embodiments, the wireless communications device may be configured to keep the pay toll function enabled as long as the wireless communications device is able to sense the signal that is being radiated by the low-power radiator and a specific value (or values) associated with at least one of a velocity of the motor vehicle, an acceleration of the motor vehicle, a position of the motor vehicle, a ToD, a ToM, a ToY and a content of the motor vehicle is/are being met/satisfied.

[0023] In accordance with some embodiments, even though the wireless communications device does not find a match but is able to sense the signal that is being radiated by the low-power radiator, the wireless communications device may be configured to provide a notification (e.g., a sound, a vibration, a light and/or an alpha-numeric display, etc.). Responsive to the notification, a user of the wireless communications device may instruct (for example, manually or via voice command) the wireless communications device to enable the pay toll function.

[0024] In further embodiments, a second wireless communications device that belongs to and/or is being used by a second person, senses a signal and, responsive to having sensed the signal (whether a match is found or not) sends a request selectively to a first wireless communications device. Responsive to the request, the first wireless communications device sends an acknowledgement and/or an authorization to the second wireless communications device. Responsive to the acknowledgement and/or authorization the second wireless communications device selectively enables a mode which, according to some embodiments, is the pay toll function. It will be understood that the first and second wireless communications devices may, according to some embodiments, be predetermined to function as described above. That is, the first wireless communications device acting as a "master" and the second wireless communications device acting as a "slave" in that the second wireless communications device is configured to enable a mode/function thereof responsive to a detection/match and responsive to receiving an authorization from the first wireless communications device. If the mode/function comprises paying for a transaction, an amount of money associated with the paying may be deducted/withdrawn from an account associated with an owner/user of the first wireless communications device.

[0025] Thus, according to some embodiments, the first wireless communications device functions independently and/or autonomously whereas the second wireless communications device functions dependently on the first wireless communications device, at least as far as at least one of its modes/functions is concerned. The master-slave relationship between the first and second wireless communications devices may, according to some embodiments, be predetermined. In other embodiments, the master-slave relationship may not be predetermined and may be negotiated and/or

established, as a need for such a relationship arises, by exchanging information between the first and second wireless communications devices. It will be understood that, in some embodiments, at least one of the first and second wireless communications devices may not be a wireless communications device.

[0026] **Example/Application No. 2:** A wireless communications device may be configured to estimate a location associated therewith and may also be configured to estimate a value of at least one other parameter that may be associated with the wireless communications device, an environment thereof and/or an entity (living or otherwise) that is associated with and/or is proximate to the wireless communications device. The "at least one other parameter" may, for example, be a velocity, acceleration, ToD, ToM, ToY, humidity, temperature, height, level of brightness, level of darkness, a blood pressure, a heart rate, a blood content, a physiological state, a psychological state, etc. As those skilled in the art will appreciate, the wireless communications device may be configured to estimate its location and the value of the "at least one other parameter" by, for example, processing GPS signals and/or by using other means and/or sensors that may, according to some embodiments, be device-based and/or network assisted/based means and/or sensors.

[0027] According to some embodiments, the wireless communications device may be configured to make a comparison between an estimate of its location and one or more other locations, that may be one or more other predetermined and/or pre-stored locations, and the wireless communications device may be configured to selectively enable a first communications mode/function responsive to an outcome of the comparison and/or to selectively disable a second communications mode/function responsive to the outcome of the comparison. In other embodiments, the wireless communications device may be configured to selectively enable the first communications mode/function responsive to the outcome of the comparison and/or responsive to a value of another parameter, such as, for example, a value associated with the "at least one other parameter" list and/or selectively disable the second communications mode/function responsive to the outcome of the comparison and/or responsive to a value of another parameter, such as, for example, a value associated with the "at least one other parameter" list.

[0028] For example, in some embodiments, if a comparison between an estimate of location of the wireless communications device and the one or more locations that are predetermined and/or pre-stored reveals a distance therebetween that is less than or equal to a threshold, the wireless communications device may be configured to selectively and/or preferentially enable a first communications mode, that may be one communications mode of a plurality of communications modes, that uses, for example, a first air interface protocol and a first set of frequencies to communicate information wirelessly (wherein the first set of frequencies may be a predetermined first set of frequencies), while refraining from using (and/or using only infrequently and/or as a last resort depending on an emergency, need and/or a priority) a second communications mode, of the plurality of communications modes, comprising a second set of frequencies and/or a second air interface protocol. In some embodiments, refraining from using (and/or using only infrequently and/or as a last resort depending on an emergency, need and/or a priority) a second communications mode comprises selectively and/or preferentially disabling the second communications mode that uses, for example, the second air interface protocol and/or the second set of frequencies. It will be understood that, according to some embodiments, the first and/or second air interface protocols may be predetermined and that the first and/or second set of frequencies may also be predetermined. In further embodiments, at least one of the first air interface protocol, the second air interface protocol, the first set of frequencies and the second set of frequencies may not be predetermined and may be determined as required responsive to receiving a message, sensing/detecting at least a portion of an electro-magnet spectrum and/or via other means such as, for example, a user choice/preference/command.

[0029] In some embodiments, the first communications mode may comprise an air interface protocol, such as, for example, an Orthogonal Frequency Division Multiplexed and/or an Orthogonal Frequency Division Multiple Access (OFDM/OFDMA) protocol, a WiFi- and/or WiMAX-based air interface protocol that may be based upon Time Division Duplex (TDD) operation wherein a common set of frequencies are used bi-directionally (at different times) to provide uplink and

downlink communications, and the first and/or second set of frequencies may comprise, for example, an un-licensed use and/or a licensed use set of frequencies.

[0030] In further embodiments, the wireless communications device may further be configured to selectively enable (or to prefer) a first communications mode and/or to selectively refrain from using (or avoid from using unless a level of priority and/or other reason is provided) a second communications mode, responsive to the comparison of position that was discussed earlier and/or responsive to a value of a quantity/parameter, such as, for example, a value associated with the "at least one other parameter" and/or responsive to an event (man-caused or natural). The first communications mode may comprise a first air interface protocol and a first set of frequencies for transmission/reception of information and the second communications mode may comprise a second air interface protocol, that may be different from the first air interface protocol, and/or a second set of frequencies for transmission and/or reception of information that may be different (or at least partially different) from the first set of frequencies.

[0031] The wireless communications device may be configured to repeatedly make a decision based on the comparison of position that was discussed earlier, based on the value of a quantity/parameter, such as, for example, a value associated with the "at least one other parameter" and/or based on the event (man-caused and/or natural), to maintain the first communications mode enabled and/or to maintain the second communications mode disabled for as long as the comparison of position, the value of the quantity/parameter and/or the event (man-caused and/or natural) continues to satisfy a threshold criterion and to disable the first communications mode and/or enable the second communications mode after the wireless communications device determines that the comparison of position, the value of the quantity/parameter and/or the event no longer satisfies the threshold criterion.

[0032] In further embodiments, responsive to the comparison of position, the value of the quantity/parameter and/or the event satisfying the threshold criterion, the wireless communications device may be configured to send information (automatically or upon user command) selectively to one or more other devices that, according to some embodiments, may be predetermined other devices. In still other

embodiments, responsive to the comparison of position, the value of the quantity/parameter and/or the event satisfying the threshold criterion, the wireless communications device may be configured to receive information (automatically or upon user command) selectively from one or more other devices that, according to some embodiments, may be predetermined other devices.

[0033] **Example/Application No. 3:** A shopping cart, for example, of the type used in a grocery and/or super-market store, may be configured to sense/detect one or more items that are placed in the shopping cart. As used herein, the term "configured to sense/detect" may, in some embodiments, comprise sensing/detecting, for example, a weight, a manufacturer, an expiration date, a price and/or a nutritional value, etc. associated with the one or more items, wherein the sensing/detecting may be performed based upon any technology, such as, for example, a Radio Frequency (RF) tagging technology, a bar-code technology, an image recognition technology and/or any other technology.

[0034] Each shopping cart may include an identity (e.g., a number). Mr. Jones (a customer), who chooses a shopping cart having as identity a number such as, for example, "8787," may insert the number 8787 into a wireless communications device that Mr. Jones is carrying/using. Upon inserting the number 8787 into the wireless communications device, the wireless communications device may be configured to selectively establish a communications link, that may, in some embodiments, be a short-range communications link, with the shopping cart having identity 8787. From that time on, as the shopping cart senses/detects the one or more items that are placed in the shopping cart, information associated with the sensing/detecting of the one or more items, including price information associated with the one or more items, is transferred to Mr. Jones' wireless communications device via the communications link that is selectively established between Mr. Jones' wireless communications device and shopping cart 8787.

[0035] In the event that Mr. Jones decides to put back on a shelf an item that has been placed in shopping cart 8787, that item is sensed/detected by the shopping cart as having been withdrawn/deleted from the shopping cart and at least some information associated therewith is withdrawn/deleted, or at least changed, from Mr.

Jones' wireless communications device via one or more commands/messages sent to the wireless communications device by the shopping cart, via the communications link.

[0036] When Mr. Jones has finished shopping, Mr. Jones can examine the wireless communications device and may instruct the wireless communications device to perform a transaction, such as, for example, to pay for the one or more items that Mr. Jones has placed in shopping cart 8787. In some embodiments, the shopping cart including the one or more items and the wireless communications device may need to be proximate to a specific location within the grocery and/or super market store (e.g., proximate to a "check-out" counter/location) before the wireless communications device and/or shopping cart (individually and/or jointly in communication therebetween) may enable a "pay" function by detecting a (short-range) signal that may be transmitted by/from the specific location.

[0037] **Other Embodiments:** Figures 1 and 2 illustrate further embodiments of the present invention. Additional embodiments may comprise systems and/or methods. For example, in one embodiment as illustrated in FIG. 1, a method in a system 10 is provided comprising: detecting that a proximity criterion is satisfied between a first device 14, such as a mobile subscriber device, and Entity 1; and enabling a mode of the first device and/or a mode of a second device 15 responsive to the detecting; where, according to some embodiments, the second device 15 is not the Entity 1 and is not associated with the Entity 1 and wherein the Entity 1 is not involved in providing a communications service to the first and/or second device. In one particular embodiment, a mobile subscriber device 14 linked to a communications system 18 via base station 12 can enable a function when the device 14 comes within a proximity of Entity 1. The function enabled can be any number of functions at the mobile subscriber device 14 or even at the mobile subscriber device 15. The mobile subscriber device 15 can also be linked to the communications system 18 via a base station 13. The function enabled can be a financial transaction, the transmission of communications, such as data, and/or some other function that may provision the mobile subscriber device 14 and/or the mobile subscriber device 15

with additional functionality not previously available/activated at the respective devices.

[0038] In one embodiment, the detection by mobile subscriber device 14 of a proximity criterion relative to Entity 1 can enable the mobile subscriber device 14 to authorize and complete a financial transaction such as the payment of a toll and/or of an item at a check out line. The same detection by mobile subscriber device 14 of the proximity criterion relative to Entity 1 can also or alternatively enable the mobile subscriber device 15 to authorize and complete a financial transaction such as the payment of a toll and/or a payment for an item at a check out line. The enablement of the mobile subscriber device 15 may also be contingent on the mobile subscriber device 15 having satisfied a proximity criterion relative to a second entity, such as Entity 2. Thus, the proximity criterion can include various requirements depending on the particular application. The requirements may include at least one of having the device 14 being within a predetermined distance of Entity 1, the device 14 receiving a predetermined signal strength from Entity 1, being at such predetermined distance for a predetermined time interval and receiving a predetermined signal strength during the predetermined time interval. The requirements can also include having device 15 being within a predetermined distance and/or predetermined signal strength of Entity 2, and/or being within such predetermined distance and/or signal strength during a predetermined time interval. It will be understood that at least one of devices 16 and 17, shown in FIG. 1 as being attached to Entity 1 and Entity 2, respectively, may, according to some embodiments, comprise a wireless transmitter and/or receiver.

[0039] According to some embodiments, the detecting may be performed by the first device (i.e., radioterminal 14), by the second device (i.e., radioterminal 15), by a device that is associated with an entity (i.e., device 16 and/or device 17) and/or by a system that is associated with the first and/or second devices (i.e., system 18, base station 12 and/or base station 13). Also, in some embodiments, the enabling may be performed by the first device, by the second device, by a device that is associated with the entity and/or by a system that is associated with the first and/or second devices.

[0040] In some embodiments, the first device comprises a wireless communications device, the second device comprises a wireless communications device and/or the system that is associated with the first and/or second devices comprises a wireless communications system that is configured to provide a communications service to the first and/or second devices.

[0041] In further embodiments, detecting comprises: using position information associated with the first device; using position information associated with the second device; detecting a signal (and/or a signal strength measurement such as RSSI) that is being radiated by the first device; detecting a signal (and/or a signal strength) that is being radiated by the second device; and/or detecting a signal (and/or a signal strength) that is being radiated by a device that is associated with the entity, wherein using position information may, according to some embodiments, comprise: evaluating a distance between the position information and one or more position values; and determining whether the distance is less than or equal to a threshold. In some embodiments, the one or more position values is/are predetermined.

[0042] In further embodiments, responsive to the enabling, the method comprises performing a function; wherein the function, according to some embodiments, comprises a financial transaction, receiving data and/or transmitting data. In some embodiments, receiving data comprises receiving data selectively from a first unit and wherein transmitting data comprises transmitting data selectively to a second unit. In some embodiments, the first and second units are the same unit, whereas in other embodiments the first and second units are different units. In further embodiments, the first and/or second units may be predetermined units and the first unit may comprise a wireless communications device and/or the second unit may comprise a wireless communications device. In yet further embodiments, the first unit may be associated with an Internet Protocol (IP) address and/or the second unit may be associated with an IP address.

[0043] Referring to FIG. 2, the first device 14 can traverse a path 23 within an overall coverage area 20 and the second device 15 can traverse a path 25 within the overall coverage area 20. The overall coverage area 20 can include areas 22 and 24 that can be associated with respective entities. The entry of the first device 14 within

area 22 can selectively enable a mode and/or a function at device 14 and can optionally enable a mode and/or a function at device 15 based, according to some embodiments, on a proximity criterion to area 24. For example, if device 14 owned and/or operated by a user is at a first store within area 22 and the device 15 owned/operated by, for example, the user's spouse is at a second store within area 24, then the user's spouse at device 15 can complete a purchase within area 24 based on the user's presence with device 14 within area 22. Similarly, if the two users at devices 14 and 15 at respective areas 22 and 24 want to sample music, games and/or even play a game between each other, their respective device can be provisioned for such sampling as long as they stay within the proximity criteria set for each of the respective devices. Once one or the other device goes beyond the respective proximity criterion, the mode and/or function enabling the sampling will be disabled at one or both devices.

[0044] In some embodiments according to the present invention, receiving data comprises receiving a position, a request and/or an acknowledgement and wherein transmitting data comprises transmitting a position, an authorization and/or an acknowledgement.

[0045] In further embodiments according to the present invention, the financial transaction comprises providing payment associated with a toll and/or providing payment associated with a purchase of one or more items.

[0046] In accordance with additional embodiments of the present invention, receiving data comprises receiving data once or repeatedly and transmitting data comprises transmitting data once or repeatedly.

[0047] It will be understood that relative to any one of the plurality of methods described above, the term "entity" may comprise a person, an animal, a building, a motor vehicle, a shopping cart, a product, a check-out counter, a geographic position, a geographic area and/or one or more locations in time and/or space.

[0048] In a further embodiment according to the present invention, a system is provided comprising: a detector that is configured to enable a mode of a first device and/or to enable a mode of a second device responsive to a detection that a proximity criterion is satisfied between the first device and an entity; wherein, according to

some embodiments, the second device is not the entity and is not associated with the entity, and wherein, according to further embodiments, the entity is not involved in providing a communications service to the first and/or second device. In some embodiments, the detector is included in, and the detection is performed by, the first device, the second device, a device that is associated with the entity and/or a system that is associated with the first and/or second devices. Similarly, according to some embodiments, the detector is included in, and the mode is enabled by, the first device, the second device, a device that is associated with the entity and/or a system that is associated with the first and/or second devices.

[0049] Referring to FIG. 3, a flow chart illustrating a method 30 in accordance with an embodiment herein includes detecting that a proximity criterion is satisfied between a first device and an entity at 32. Note, that although the steps described are in a certain order in this embodiment, embodiments contemplated within the scope of the claims are not necessarily limited to a particular order or necessarily include every step described in method 30 and may further include additional steps as may be obvious to one of ordinarily skilled in the art. Method 30 can further include enabling a mode of the first device and/or a mode of a second device responsive to detecting satisfaction of the proximity criterion and while the proximity criterion is satisfied at 34, where the first device and the second device form a part of a communication system providing communications service to the first device and the second device. The second device can be independent of the entity and the entity can be independent of the communications service provided to the first and second device at shown at 36. The method at 38 can enable a mode of the first device and a mode of the second device responsive to detecting that the proximity criterion is satisfied between the first device and the entity. The first device and the second device can be mobile subscriber devices (i.e., radioterminals) and the entity can be a proximity beacon enabling a financial transaction between the first device or the second device and a vendor in communication with the first device or the second device at an access point maintained by the vendor or on behalf of the vendor. The access point can be a toll both, a point of purchase counter, or a check out counter and the first device and the second device can be cellular phones authorized selectively by its user and by

satisfying the proximity criterion to proceed with a financial transaction associated with the vendor at the access point. As previously noted, although cellular phones are described, other communication devices are certainly within contemplation of the scope of the claims. The step of detecting can be done in any number of various ways. Detecting can include using position information associated with the first device relative to the entity or using position information of the second device relative to the entity or detecting a signal being radiated by the entity or detecting a signal being radiating by the first device and reflected by the entity or detecting a signal being radiating by the second device and reflected by the entity. In this regard, the method 30 can further evaluate a distance between the position information and one or more position values and determine whether the distance is less than or equal to a threshold at 39.

[0050] In some embodiments, the first device comprises a wireless communications device and/or the second device comprises a wireless communications device and the system that is associated with the first and/or second devices comprises a wireless communications system.

[0051] In further embodiments, the detection comprises: use of position information associated with the first device; use of position information associated with the second device; a detection of a signal that is being radiated by the first device; a detection of a signal that is being radiated by the second device; and/or a detection of a signal that is being radiated by a device that is associated with the entity. In some embodiments, use of position information comprises: an evaluation of a distance between the position information and one or more position values; and a determination of whether the distance is less than or equal to a threshold. It will be understood, that according to some embodiments of the invention, the one or more position values may be predetermined position values.

[0052] In yet additional embodiments of the present invention, the first device and/or the second device may be configured to perform a function responsive to the mode having been enabled by the detector, wherein, according to some embodiments, the function may comprise a financial transaction, reception of data and/or transmission of data. In some embodiments, reception of data comprises reception of

data selectively from a first unit and transmission of data comprises transmission of data selectively to a second unit. In accordance with some embodiments, the first and second units are the same unit and in accordance with other embodiments, the first and second units are different units. It will be understood that in some embodiments the first and/or second units may be first and second predetermined units.

[0053] In yet further embodiments of the invention, the first unit may comprise a wireless communications device and/or the second unit may comprise a wireless communications device. According to additional embodiments, the first unit is associated with an Internet Protocol (IP) address and/or the second unit is associated with an IP address.

[0054] In some embodiments of the present invention, receiving data comprises receiving a position, a request and/or an acknowledgement and wherein transmitting data comprises transmitting a position, an authorization and/or an acknowledgement. According to other embodiments, the financial transaction comprises a payment of a toll and/or a payment associated with a purchase of one or more items. It will be understood that, in some embodiments, the reception of data comprises reception of data once or repeatedly and that, according to some embodiments, the transmission of data comprises transmission of data once or repeatedly. It will also be understood that according with any one of the embodiments described above (or any combination thereof) the term "entity," as used therein may comprise a person, an animal, a building, a motor vehicle, a shopping cart, a product that is on sale, a check-out counter, a geographic position, a geographic area and/or one or more locations in time and/or space.

[0055] In some embodiments according to the present invention, a system may comprise the detector, the first device, the second device, the entity, the device that is associated with the entity and/or the system that is associated with the first and/or second devices.

[0056] In the specification, there have been disclosed embodiments and, although specific terms are employed, they are used in a generic and descriptive sense only and not for purposes of limitation. The following claims are provided to set forth, at least in part, the scope of the present invention.

CLAIMS

1. A method of operating a smartphone in performing at least one financial transaction; the method including a two-step process in establishing and using a capability in order to perform said at least one financial transaction; the method comprising:

responsive to sensing at least one parameter by at least one sensor of the smartphone and responsive to determining that the at least one parameter that is sensed satisfies a criterion, performing a first step of said two-step process by enabling a mode to communicate by the smartphone information requesting an authorization to establish said capability;

while the mode is enabled, and as a precursor to performing a second step of said two-step process, transmitting by the smartphone first data to a first device requesting the authorization to establish said capability to perform said at least one financial transaction; and

receiving by the smartphone second data from the first device, comprising the authorization, responsive to said transmitting by the smartphone the first data; then

performing the second step of said two-step process comprising performing a first transaction of said at least one financial transaction, responsive to detecting by the smartphone that a proximity condition is satisfied and responsive to sensing the at least one parameter and determining that the at least one parameter sensed satisfies the criterion;

wherein said performing the second step of said two-step process comprises sensing that the proximity condition is satisfied relative to an access point maintained by a vendor at a point of purchase counter, by detecting a short-range signal that is transmitted by the access point, determining that a value of the at least one parameter that is sensed satisfies the criterion and then, responsive to having sensed that the proximity condition is satisfied relative to the access point and having determined that the value of the at least one parameter sensed satisfies the criterion, paying for a product by selectively sending information to at least one device;

wherein said paying for a product by selectively sending information to at least one device comprises selectively and wirelessly transmitting information to the at least one device using unlicensed frequencies; and

wherein said at least one parameter comprises a signal, a number, a word, a code, a velocity, an acceleration, a time-of-day, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state.

2. The method of Claim 1,

wherein said enabling a mode to communicate by the smartphone information requesting an authorization comprises enabling a first function of the smartphone while disabling a second function of the smartphone responsive to the at least one parameter having been sensed by the at least one sensor of the smartphone and further responsive to having determined that the at least one parameter that is sensed satisfies the criterion; and then selectively communicating with the first device by using a communications capability of the first function, selectively establishing a master-slave relationship with the first device, and selectively requesting from the first device the authorization to establish the capability to conduct said at least one financial transaction.

3. The method of claim 1,

wherein said transmitting by the smartphone first data to a first device is responsive to the at least one parameter having been sensed by the at least one sensor of the smartphone and is further responsive to having determined that the at least one parameter that is sensed satisfies the criterion; and

wherein said receiving by the smartphone second data from the first device is responsive to said transmitting by the smartphone the first data and comprises receiving by the smartphone information relating to an acknowledgement and/or authorization to establish and use the capability to perform said at least one financial transaction.

4. The method of claim 1, further comprising:

responsive to performing a financial transaction, causing data to be transmitted selectively to at least one device and further causing data to be received selectively from at least one device.

5. The method of claim 1,

wherein said transmitting by the smartphone first data to a first device and receiving by the smartphone second data from the first device comprises wirelessly transmitting/receiving by the smartphone using unlicensed frequencies, licensed frequencies, a WiFi air interface protocol, an Orthogonal Frequency Division Multiplexing air interface protocol and/or an Orthogonal Frequency Division Multiple Access air interface protocol.

6. A smartphone that is configured to perform operations, comprising a two-step process, associated with establishing and using a capability in order to perform at least one financial transaction; the operations comprising:

responsive to sensing at least one parameter by at least one sensor of the smartphone and responsive to determining that the at least one parameter that is sensed satisfies a criterion, performing a first step of said two-step process by enabling a mode to communicate information requesting an authorization to establish said capability;

while the mode is enabled, and as a precursor to performing a second step of said two-step process, transmitting first data to a first device requesting the authorization to establish said capability to perform said at least one financial transaction; and

receiving second data from the first device, comprising the authorization, responsive to said transmitting the first data; then

performing the second step of said two-step process comprising performing a first financial transaction of said at least one financial transaction, responsive to detecting by the smartphone that a proximity condition is satisfied and responsive to sensing the at least one parameter and determining that the at least one parameter sensed satisfies the criterion;

wherein said performing the second step of said two-step process comprises sensing that the proximity condition is satisfied relative to an access point maintained by a vendor at a point of purchase counter, by detecting a short-range signal that is transmitted by the access point, determining that a value of the at least one parameter that is sensed satisfies the criterion and then, responsive to having sensed that the proximity condition is satisfied relative to the access point and having determined that the value of the at least one parameter sensed satisfies the criterion, paying for a product by selectively sending information to at least one device;

wherein said paying for a product by selectively sending information to at least one device comprises selectively and wirelessly transmitting information to the at least one device using unlicensed frequencies; and

wherein said at least one parameter comprises a signal, a number, a word, a code, a velocity, an acceleration, a time-of-day, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state.

7. The smartphone of Claim 6,

wherein said enabling a mode to communicate by the smartphone information requesting an authorization comprises enabling a first function of the smartphone while disabling a second function of the smartphone responsive to the at least one parameter having been sensed by the at least one sensor of the smartphone and further responsive to having determined that the at least one parameter that is sensed satisfies the criterion; and then selectively communicating with the first device by using a communications capability of the first function, selectively establishing a master-slave relationship with the first device, and selectively requesting from the first device the authorization to establish the capability to conduct said at least one financial transaction.

8. The smartphone of claim 6,

wherein said transmitting first data to a first device is responsive to the at least one parameter having been sensed by the at least one sensor of the smartphone and is further

responsive to having determined that the at least one parameter that is sensed satisfies the criterion; and

wherein said receiving by the smartphone second data from the first device is responsive to said transmitting by the smartphone the first data and comprises receiving by the smartphone information relating to an acknowledgement and/or authorization to establish and use the capability to perform said at least one financial transaction.

9. The smartphone of claim 6, wherein the operations further comprise:

responsive to performing a financial transaction, causing data to be transmitted selectively to at least one device and further causing data to be received selectively from at least one device.

10. The smartphone of claim 6,

wherein said transmitting first data to a first device and said receiving second data from the first device comprises wirelessly transmitting/receiving by the smartphone using unlicensed frequencies, licensed frequencies, a WiFi air interface protocol, an Orthogonal Frequency Division Multiplexing air interface protocol and/or an Orthogonal Frequency Division Multiple Access air interface protocol.

11. The method of Claim 1, wherein said paying for a product further comprises deducting/withdrawing an amount of money from an account.

12. The method of Claim 1,

wherein said using unlicensed frequencies comprises using unlicensed frequencies in a Time Division Duplex operation;

wherein said selectively sending information to at least one device comprises selectively sending information to the access point maintained by the vendor at the point of purchase counter and to at least one other device that is predetermined; and/or

wherein the method further comprises selectively receiving information from the access point maintained by the vendor at the point of purchase counter and from at least one other device that is predetermined.

13. The method of Claim 2, further comprising:

repeatedly sensing the at least one parameter and repeatedly deciding, based on comparing a value of the at least one parameter sensed to the criterion, whether or not to maintain enabled said first function while maintaining disabled said second function; and

maintaining enabled said first function while maintaining disabled said second function responsive to deciding that said value of the at least one parameter continues to satisfy the criterion; or

disabling said first function and enabling said second function responsive to deciding that the value of the at least one parameter no longer satisfies the criterion.

14. The method of Claim 6, wherein said paying for a product further comprises deducting/withdrawing an amount of money from an account.

15. The method of Claim 6,

wherein said using unlicensed frequencies comprises using unlicensed frequencies in a Time Division Duplex operation;

wherein said selectively sending information to at least one device comprises selectively sending information to the access point maintained by the vendor at the point of purchase counter and to at least one other device that is predetermined; and/or

wherein the method further comprises selectively receiving information from the access point maintained by the vendor at the point of purchase counter and from at least one other device that is predetermined.

16. The smartphone of Claim 7, wherein the operations further comprise:

repeatedly sensing the at least one parameter and repeatedly deciding, based on comparing a value of the at least one parameter sensed to the criterion, whether or not to maintain enabled said first function while maintaining disabled said second function; and

maintaining enabled said first function while maintaining disabled said second function responsive to deciding that said value of the at least one parameter continues to satisfy the criterion; or

disabling said first function and enabling said second function responsive to deciding that the value of the at least one parameter no longer satisfies the criterion.

ABSTRACT

A method of enabling one or more functions of a device is disclosed. The method includes sensing by a device a physiological parameter of a user of the device. The device determines whether or not the physiological parameter that is sensed satisfies a criterion. Responsive to determining that the physiological parameter that is sensed satisfies the criterion, the device enables a number of functions of the device while disabling a function of the device.

Doc Code: TRACK1.REQ
Document Description: TrackOne Request

PTO/AIA/424 (11-23)

CERTIFICATION AND REQUEST FOR PRIORITIZED EXAMINATION UNDER 37 CFR 1.102(e) (Page 1 of 1)

First Named Inventor:	Peter D. Karabinis	Nonprovisional Application Number (if known):	
Title of Invention:	MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER		

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS PRIORITIZED EXAMINATION FOR THE ABOVE-IDENTIFIED APPLICATION.

1. The processing fee set forth in 37 CFR 1.17(i)(1) and the prioritized examination fee set forth in 37 CFR 1.17(c) have been filed with the request. The publication fee requirement is met because that fee, set forth in 37 CFR 1.18(d), is currently $0. The basic filing fee, search fee, and examination fee are filed with the request or have been already been paid. I understand that any required excess claims fees or application size fee must be paid for the application.

2. I understand that the application may not contain, or be amended to contain, more than four independent claims, more than thirty total claims, or any multiple dependent claims, and that any request for an extension of time will cause an outstanding Track I request to be dismissed.

3. The applicable box is checked below:

I. ☑ **Original Application (Track One) - Prioritized Examination under § 1.102(e)(1)**

i. (a) The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a). This certification and request is being filed with the utility application via USPTO patent electronic filing system.

---OR---

(b) The application is an original nonprovisional plant application filed under 35 U.S.C. 111(a). This certification and request is being filed with the plant application in paper.

ii. An executed inventor's oath or declaration under 37 CFR 1.63 or 37 CFR 1.64 for each inventor, or the application data sheet meeting the conditions specified in 37 CFR 1.53(f)(3)(i) is filed with the application.

II. ☐ **Request for Continued Examination - Prioritized Examination under § 1.102(e)(2)**

i. A request for continued examination has been filed with, or prior to, this form.
ii. If the application is a utility application, this certification and request is being filed via USPTO patent electronic filing system.
iii. The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a), or is a national stage entry under 35 U.S.C. 371.
iv. This certification and request is being filed prior to the mailing of a first Office action responsive to the request for continued examination.
v. No prior request for continued examination has been granted prioritized examination status under 37 CFR 1.102(e)(2).

Signature /Aaron Pederson/	Date 2023-11-29
Name (Print/Typed) Aaron Pederson	Practitioner Registration Number 58607

Note: *This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required.**

☐ *Total of _____ forms are submitted.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.	:	
Applicant	:	Telcom Ventures LLC
Filed	:	November 29, 2023
Art Unit	:	
Examiner	:	
Confirmation No.	:	
Docket No.	:	1348.002US10
Customer No.	:	138517
Title	:	MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

INFORMATION DISCLOSURE STATEMENT (IDS)

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

Dear Commissioner:

Pursuant to 37 C.F.R. § 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed within three months of the filing date of the present application (37 C.F.R. § 1.97(b)(1)).

In accordance with 37 C.F.R. § 1.98(a)(2)(ii), Applicant has not submitted copies of U.S. patents and U.S. patent applications. In accordance with 37 C.F.R. §1.98(a)(2) and §1.98(d), a copy of each foreign patent and/or a copy of each publication, other than U.S. patents and U.S. patent application publications has been provided only for those items listed on the enclosed Form PTO/SB/08 that have not previously been cited by or submitted to the U.S. Patent and Trademark Office in parent application nos., 18/489,517, filed October 18, 2023, 18/450,517, filed August 16, 2023, 17/653,748, filed March 7, 2022, 15/929,609, filed May 12, 2020,

16/012,513, filed June 19, 2018, 15/800,885, filed November 1, 2017, 15/251,882, filed August 30, 2016, and 12/264,711, filed November 4, 2008.

It is submitted that the Information Disclosure Statement is in compliance with 37 C.F.R. § 1.98 and the Examiner is respectfully requested to consider the listed references.

Customer No. 138517

Respectfully submitted,

Date: November 29, 2023

/Aaron W. Pederson/
Aaron W. Pederson
Registration No.: 58,607

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Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82A (07-13)
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Application Number	
Filing Date	November 29, 2023
First Named Inventor	Peter D. Karabinis
Title	MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER
Art Unit	
Examiner Name	
Attorney Docket Number	1348.002US10

SIGNATURE of Applicant or Patent Practitioner

Signature	/Aaron Pederson/	Date (Optional)	2023-11-29
Name	Aaron Pederson	Registration Number	58607
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

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POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

☑ I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above: 138517

OR

☐ I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:

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I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

Telcom Ventures LLC

☐ Inventor or Joint Inventor (title not required below)

☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)

☑ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)

☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature		Date (Optional)	6-25-2019
Name	Serge G. Martin		
Title	Executive Vice President - Telcom Ventures LLC		

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

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This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. 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 3 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. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	**MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION**

As a below named inventor, I hereby declare that:

This declaration is directed to:
- ☐ The attached application, or
- ☐ United States application or PCT international application number _____ filed on _____,
- ☐ As amended on _____ (if applicable).

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment specifically referred to above.

I am aware of the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56, including for continuation-in-part applications, material information that became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

LEGAL NAME OF INVENTOR

Signature: _____ Date: 7/26/2016

Legal Name: **PETER D. KARABINIS**

APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	MOBILE DEVICE MODE ENABLEMENT RESPONSIVE TO A PROXIMITY CRITERION

As a below named inventor, I hereby declare that:

This declaration is directed to: The attached application, or
United States application or PCT international application number
_____ filed on _____,
As amended on _____ (if applicable).

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment specifically referred to above.

I am aware of the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56, including for continuation-in-part applications, material information that became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

LEGAL NAME OF INVENTOR 2

Signature: Rajendra Singh Date: July 26, 2016

Legal Name: **RAJENDRA SINGH**

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/523,863	**11/29/2023 11:19:10 PM Z ET**	**1348.002US10**

Title of Invention

MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	5052	FILED BY	SAGE KRUSE
PATENT CENTER #	63429990	FILING DATE	-
CUSTOMER #	138517	FIRST NAMED INVENTOR	Peter D. Karabinis
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Aaron Pederson

Documents

TOTAL DOCUMENTS: 9

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
ADS1348002US10.pdf	9	Application Data Sheet	2175 KB
Application1348002US10-APP.TEXT.docx	27	Application body structured text document	51 KB
Drawings1348002US10.pdf	3	Drawings-only black and white line drawings	127 KB
Application1348002US10.pdf	27	Auxiliary PDF of Application	166 KB
Declarations1348002US10.pdf	2	Oath or Declaration filed	1978 KB

Track1Request1348002US10.pdf	1	Track One Request	167 KB
TransIDS1348002US10.pdf	2	Transmittal Letter	77 KB
IDS1348002US10.pdf	12	Information Disclosure Statement (IDS) Form (SB08)	1256 KB
POA1348002US10.pdf	2	Power of Attorney	390 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
ADS1348002US10.pdf	E197D7BBF8CC7A144227B6BD8A1653A106157B0A95F2D0F7C371874621661F8E57AB44FA2D02B8CA4102DA0091D9D02DD889AB4B2921B2FFFBCD0BBEB2FB04DF
Application1348002US10-APP.TEXT.docx	45DCEDE6D7DBD0ADC866BDE25D61D14CE229E987A4D3A204BDDD1ABAF6938445C8F5E204E740049F4366D524EB249351ECAAD9E5753643EFF4CAA80F4327635B
Drawings1348002US10.pdf	BD64362C6C2483E76D7939D1D93F8CF05C7D3BF62315E517755B56915F4945EED960A87BBAE8906428C60B54D4C52D36A6EF6676FB923CD97F5B8CC838A297B7
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Declarations1348002US10.pdf	4383AA9446E4A68A269C1D4954789D59BE472F29FF30825F053C26BD3524AA21905ED3F8E78C99AD893697AFE5A530E6ACB3B0E8FC2C3BDA89504CB7F200E0D5
Track1Request1348002US10.pdf	B83C32F801E98F9FE5E6E681E4837AB3513609B346338246F5CAF70DCAF7018708DB868F062319F3B33FE453B5A03BC2098FF1780668EC711C480E11C47C0E74

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IDS1348002US10.pdf	C2FEF444F5F3ECC5F0BFAA5D2D20888743CAF6E9919ACE59CE1622373FBFB40BD1D4253FD5A857E480F9A70C3C858012E6474E9E150D4F0C330952F3FC31A0C7
POA1348002US10.pdf	B62B3EAC7DC73D9F303E165F1DE6CC774304E7A0467CBB4EFBC5E49704228845CC96A3390E68122AC38738DB519802245B75FD503EF2463DCC5059874245FA41

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 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.

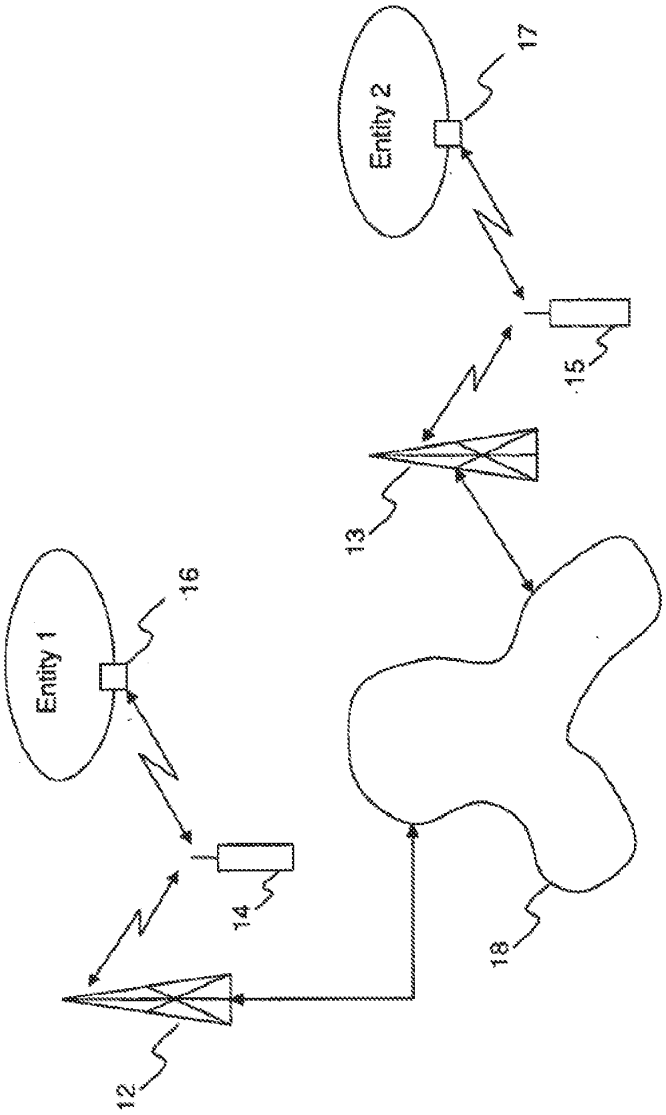


FIG. 1

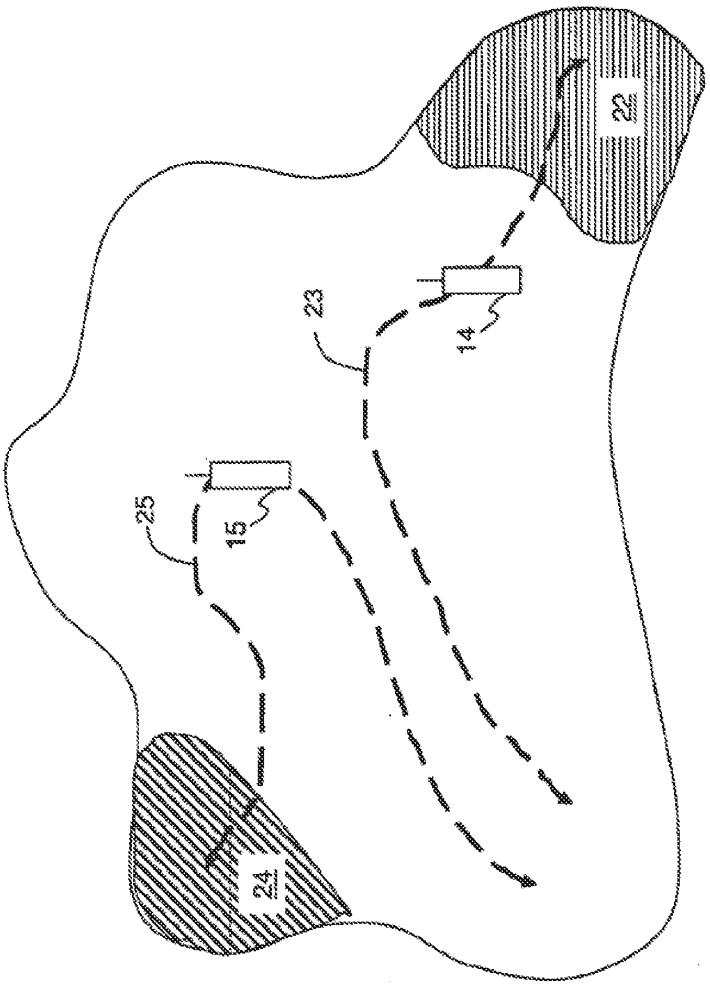
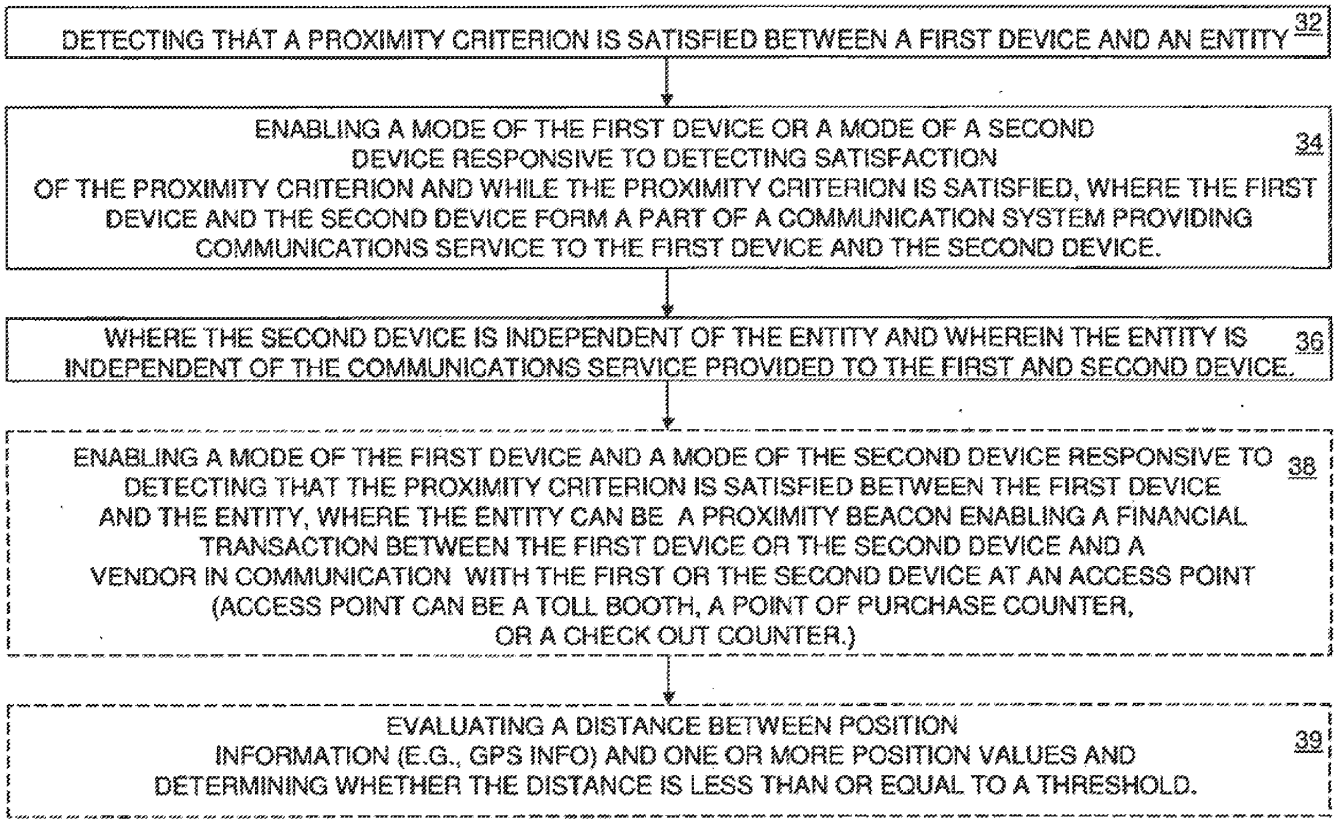


FIG. 2

FIG. 3 30


DETECTING THAT A PROXIMITY CRITERION IS SATISFIED BETWEEN A FIRST DEVICE AND AN ENTITY 32
ENABLING A MODE OF THE FIRST DEVICE OR A MODE OF A SECOND DEVICE RESPONSIVE TO DETECTING SATISFACTION OF THE PROXIMITY CRITERION AND WHILE THE PROXIMITY CRITERION IS SATISFIED, WHERE THE FIRST DEVICE AND THE SECOND DEVICE FORM A PART OF A COMMUNICATION SYSTEM PROVIDING COMMUNICATIONS SERVICE TO THE FIRST DEVICE AND THE SECOND DEVICE. 34
WHERE THE SECOND DEVICE IS INDEPENDENT OF THE ENTITY AND WHEREIN THE ENTITY IS INDEPENDENT OF THE COMMUNICATIONS SERVICE PROVIDED TO THE FIRST AND SECOND DEVICE. 36
ENABLING A MODE OF THE FIRST DEVICE AND A MODE OF THE SECOND DEVICE RESPONSIVE TO DETECTING THAT THE PROXIMITY CRITERION IS SATISFIED BETWEEN THE FIRST DEVICE AND THE ENTITY, WHERE THE ENTITY CAN BE A PROXIMITY BEACON ENABLING A FINANCIAL TRANSACTION BETWEEN THE FIRST DEVICE OR THE SECOND DEVICE AND A VENDOR IN COMMUNICATION WITH THE FIRST OR THE SECOND DEVICE AT AN ACCESS POINT (ACCESS POINT CAN BE A TOLL BOOTH, A POINT OF PURCHASE COUNTER, OR A CHECK OUT COUNTER.) 38
EVALUATING A DISTANCE BETWEEN POSITION INFORMATION (E.G., GPS INFO) AND ONE OR MORE POSITION VALUES AND DETERMINING WHETHER THE DISTANCE IS LESS THAN OR EQUAL TO A THRESHOLD. 39

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1348.002US10
	Application Number	
Title of Invention	MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Peter	D.	Karabinis	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Cary	State/Province	NC	Country of Residence	US

Mailing Address of Inventor:

Address 1	101 Chalon Drive		
Address 2			
City	Cary	State/Province	NC
Postal Code	27511	Country	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Rajendra		Singh	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Indian Creek Village	State/Province	FL	Country of Residence	US

Mailing Address of Inventor:

Address 1	23 Indian Creek Island Road		
Address 2			
City	Indian Creek Village	State/Province	FL
Postal Code	33154	Country	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1348.002US10
	Application Number	
Title of Invention	MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER	

☐ An Address is being provided for the correspondence Information of this application.			
Customer Number	138517		
Email Address	docketing@carlsoncaspers.com	Add Email	Remove Email

Application Information:

Title of the Invention	MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER		
Attorney Docket Number	1348.002US10	**Small Entity Status Claimed**	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	3	**Suggested Figure for Publication (if any)**	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	138517		

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1348.002US10
	Application Number	
Title of Invention	MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER	

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Division of	18489517	2023-10-18
Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
18489517	Continuation of	18450517	2023-08-16
Prior Application Status	Patented		Remove

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
18450517	Continuation of	17653748	2022-03-07	11770756	2023-09-26
Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
17653748	Continuation of	15929609	2020-05-12	11304118	2022-04-12
Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15929609	Continuation of	16012513	2018-06-19	10660015	2020-05-19
Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
16012513	Division of	15800885	2017-11-01	10219199	2019-02-26
Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15800885	Continuation of	15251882	2016-08-30	9832708	2017-11-28
Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15251882	Continuation of	12264711	2008-11-04	9462411	2016-10-04

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button. Add

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1348.002US10
	Application Number	
Title of Invention	MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER	

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button. Add

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	1348.002US10
		Application Number	
Title of Invention	MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER		

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1348.002US10
	Application Number	
Title of Invention	MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1 Remove

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

◉ Assignee	○ Legal Representative under 35 U.S.C. 117	○ Joint Inventor
○ Person to whom the inventor is obligated to assign.	○ Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name	Telcom Ventures LLC		
Mailing Address Information For Applicant:			
Address 1	200 South Biscayne Blvd., 40th Floor		
Address 2			
City	Miami	**State/Province**	FL
Country	US	Postal Code	33131
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button. Add

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1348.002US10
	Application Number	
Title of Invention	MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER	

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

Remove

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
City		**State/Province**	
Country i		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button. Add

Signature:

Remove

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Aaron Pederson/			Date (YYYY-MM-DD)	2023-11-29
First Name	Aaron	Last Name	Pederson	Registration Number	58607

Additional Signature may be generated within this form by selecting the Add button. Add

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	1348.002US10
		Application Number	
Title of Invention	MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER		

This collection of information is required by 37 CFR 1.76. 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 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet 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. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

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The information provided by you in this form will be subject to the following routine uses:

1 The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

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PTO/SB/08a (01-22)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	
	Filing Date	2023-11-29
	First Named Inventor	Peter D. Karabinis
	Art Unit	
	Examiner Name	
	Attorney Docket Number	1348.002US10

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6595929	B2	2003-07-22	Stivoric et al.	
	2	6769607	B1	2004-08-03	Pitroda et al.	
	3	6944981	B1	2005-09-20	Garberg et al.	
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	7	7155199	B2	2006-12-26	Zalewski et al.	
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	9	7503504	B2	2009-03-17	Mitra	
	10	7505941	B2	2009-03-17	Bishop et al.	
	11	7539241	B1	2009-05-26	Dick	
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	20	8463238	B2	2013-06-11	Forstall et al.	
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	22	8646060	B1	2014-02-04	Ayed	
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	1	20020170961	A1	2002-11-21	Dickson et al.	
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	1							☐

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	1	"Digital wallet" Wikipedia (4 pages) (Printed on July 10, 2017)	☐
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	7	International Search Report and Written Opinion of the International Searching Authority for corresponding PCT Application No. PCT/US09/062792 (8 pages) (December 23, 2009)	☐
	8	J. Weatherbed, "10 years ago, Apple finally convinced us to lock our phones / Before Touch ID and fingerprint scanners, most of us couldn't be bothered to set a PIN or password to protect our mobile devices." The Verge. 12 Sept. 2023. Retrieved on 17 Oct. 2023 from https://www.theverge.com/23868464/apple-iphone-touch-id-fingerprint-security-ten-year-anniversary.	☐
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	12	U.S. PATENT AND TRADEMARK OFFICE, "Final Rejection", Application Serial No. 16/012,513, 12/19/2019, pp. 1-14	☐
	13	U.S. PATENT AND TRADEMARK OFFICE, "Final Rejection", Application Serial No. 16/251,834, 12/17/2019, pp. 1-14	☐
	14	U.S. PATENT AND TRADEMARK OFFICE, "Non-Final Office Action", Application Serial No. 17/653,748, 06/08/2023, 19 pgs.	☐
	15	U.S. PATENT AND TRADEMARK OFFICE, "Notice of Allowance", Application Serial No. 15/929,609, December 9, 2021, 4 pgs.	☐
	16	U.S. PATENT AND TRADEMARK OFFICE, "Notice of Allowance", Application Serial No. 16/012,513, 03/26/2020, Pgs. 1-12	☐
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	18	U.S. PATENT AND TRADEMARK OFFICE, "Notice of Allowance", Application Serial No. 17/653,748, July 17, 2023, 9 pgs.	☐
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	21	U.S. PATENT AND TRADEMARK OFFICE, "Office Action", Application Serial No. 16/012,513, 04/12/2019, pp. 1-11	☐
	22	U.S. PATENT AND TRADEMARK OFFICE, "Office Action", Application Serial No. 16/012,513, 07/31/2018, pp. 1-8	☐
	23	U.S. PATENT AND TRADEMARK OFFICE, "Office Action", Application Serial No. 16/251,834, 5/9/2019, pp. 1-10	☐
	24	U.S. PATENT AND TRADEMARK OFFICE, "Restriction Requirement", Application Serial No. 18/489,517, 11/28/2023, 8 pgs.	☐
	25	U.S. PATENT AND TRADEMARK OFFICE, "Supplemental Notice of Allowability", Application Serial No. 17/653,748, July 28, 2023, 4 pgs.	☐

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EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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	Attorney Docket Number	1348.002US10

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Aaron Pederson/	Date (YYYY-MM-DD)	2023-11-29
Name/Print	Aaron Pederson	Registration Number	58607

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.	:	18/523,863
Applicant	:	Telcom Ventures LLC
Filed	:	November 29, 2023
Confirmation No.:		5052
Docket No.	:	1348.002US10
Customer No.	:	138517
Title	:	MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

PRELIMINARY AMENDMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

Please amend the above-identified patent application prior to examination as follows.

Amendments to the Claims begin on page 2 of this paper.

Remarks begin on page 9 of this paper.

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims.

Listing of Claims:

1. (Original) A method of operating a smartphone in performing at least one financial transaction; the method including a two-step process in establishing and using a capability in order to perform said at least one financial transaction; the method comprising:

responsive to sensing at least one parameter by at least one sensor of the smartphone and responsive to determining that the at least one parameter that is sensed satisfies a criterion, performing a first step of said two-step process by enabling a mode to communicate by the smartphone information requesting an authorization to establish said capability;

while the mode is enabled, and as a precursor to performing a second step of said two-step process, transmitting by the smartphone first data to a first device requesting the authorization to establish said capability to perform said at least one financial transaction; and

receiving by the smartphone second data from the first device, comprising the authorization, responsive to said transmitting by the smartphone the first data; then

performing the second step of said two-step process comprising performing a first transaction of said at least one financial transaction, responsive to detecting by the smartphone that a proximity condition is satisfied and responsive to sensing the at least one parameter and determining that the at least one parameter sensed satisfies the criterion;

wherein said performing the second step of said two-step process comprises sensing that the proximity condition is satisfied relative to an access point maintained by a vendor at a point of purchase counter, by detecting a short-range signal that is transmitted by the access point, determining that a value of the at least one parameter that is sensed satisfies the criterion and then, responsive to having sensed that the proximity condition is satisfied relative to the access point and having determined that the value of the at least one parameter sensed satisfies the criterion, paying for a product by selectively sending information to at least one device;

wherein said paying for a product by selectively sending information to at least one device comprises selectively and wirelessly transmitting information to the at least one device using unlicensed frequencies; and

wherein said at least one parameter comprises a signal, a number, a word, a code, a velocity, an acceleration, a time-of-day, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state.

2. (Original) The method of Claim 1,

wherein said enabling a mode to communicate by the smartphone information requesting an authorization comprises enabling a first function of the smartphone while disabling a second function of the smartphone responsive to the at least one parameter having been sensed by the at least one sensor of the smartphone and further responsive to having determined that the at least one parameter that is sensed satisfies the criterion; and then selectively communicating with the first device by using a communications capability of the first function, selectively establishing a master-slave relationship with the first device, and selectively requesting from the first device the authorization to establish the capability to conduct said at least one financial transaction.

3. (Original) The method of claim 1,

wherein said transmitting by the smartphone first data to a first device is responsive to the at least one parameter having been sensed by the at least one sensor of the smartphone and is further responsive to having determined that the at least one parameter that is sensed satisfies the criterion; and

wherein said receiving by the smartphone second data from the first device is responsive to said transmitting by the smartphone the first data and comprises receiving by the smartphone information relating to an acknowledgement and/or authorization to establish and use the capability to perform said at least one financial transaction.

4. (Original) The method of claim 1, further comprising:

responsive to performing a financial transaction, causing data to be transmitted selectively to at least one device and further causing data to be received selectively from at least one device.

5. (Original) The method of claim 1,

wherein said transmitting by the smartphone first data to a first device and receiving by the smartphone second data from the first device comprises wirelessly transmitting/receiving by the smartphone using unlicensed frequencies, licensed frequencies, a WiFi air interface protocol, an Orthogonal Frequency Division Multiplexing air interface protocol and/or an Orthogonal Frequency Division Multiple Access air interface protocol.

6. (Original) A smartphone that is configured to perform operations, comprising a two-step process, associated with establishing and using a capability in order to perform at least one financial transaction; the operations comprising:

responsive to sensing at least one parameter by at least one sensor of the smartphone and responsive to determining that the at least one parameter that is sensed satisfies a criterion, performing a first step of said two-step process by enabling a mode to communicate information requesting an authorization to establish said capability;

while the mode is enabled, and as a precursor to performing a second step of said two-step process, transmitting first data to a first device requesting the authorization to establish said capability to perform said at least one financial transaction; and

receiving second data from the first device, comprising the authorization, responsive to said transmitting the first data; then

performing the second step of said two-step process comprising performing a first financial transaction of said at least one financial transaction, responsive to detecting by the smartphone that a proximity condition is satisfied and responsive to sensing the at least one parameter and determining that the at least one parameter sensed satisfies the criterion;

wherein said performing the second step of said two-step process comprises sensing that the proximity condition is satisfied relative to an access point maintained by a vendor at a point of

purchase counter, by detecting a short-range signal that is transmitted by the access point, determining that a value of the at least one parameter that is sensed satisfies the criterion and then, responsive to having sensed that the proximity condition is satisfied relative to the access point and having determined that the value of the at least one parameter sensed satisfies the criterion, paying for a product by selectively sending information to at least one device;

wherein said paying for a product by selectively sending information to at least one device comprises selectively and wirelessly transmitting information to the at least one device using unlicensed frequencies; and

wherein said at least one parameter comprises a signal, a number, a word, a code, a velocity, an acceleration, a time-of-day, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state.

7. (Original) The smartphone of Claim 6,

wherein said enabling a mode to communicate by the smartphone information requesting an authorization comprises enabling a first function of the smartphone while disabling a second function of the smartphone responsive to the at least one parameter having been sensed by the at least one sensor of the smartphone and further responsive to having determined that the at least one parameter that is sensed satisfies the criterion; and then selectively communicating with the first device by using a communications capability of the first function, selectively establishing a master-slave relationship with the first device, and selectively requesting from the first device the authorization to establish the capability to conduct said at least one financial transaction.

8. (Original) The smartphone of claim 6,

wherein said transmitting first data to a first device is responsive to the at least one parameter having been sensed by the at least one sensor of the smartphone and is further responsive to having determined that the at least one parameter that is sensed satisfies the criterion; and

wherein said receiving by the smartphone second data from the first device is responsive to said transmitting by the smartphone the first data and comprises receiving by the smartphone

information relating to an acknowledgement and/or authorization to establish and use the capability to perform said at least one financial transaction.

9. (Original) The smartphone of claim 6, wherein the operations further comprise:

responsive to performing a financial transaction, causing data to be transmitted selectively to at least one device and further causing data to be received selectively from at least one device.

10. (Original) The smartphone of claim 6,

wherein said transmitting first data to a first device and said receiving second data from the first device comprises wirelessly transmitting/receiving by the smartphone using unlicensed frequencies, licensed frequencies, a WiFi air interface protocol, an Orthogonal Frequency Division Multiplexing air interface protocol and/or an Orthogonal Frequency Division Multiple Access air interface protocol.

11. (Original) The method of Claim 1, wherein said paying for a product further comprises deducting/withdrawing an amount of money from an account.

12. (Original) The method of Claim 1,

wherein said using unlicensed frequencies comprises using unlicensed frequencies in a Time Division Duplex operation;

wherein said selectively sending information to at least one device comprises selectively sending information to the access point maintained by the vendor at the point of purchase counter and to at least one other device that is predetermined; and/or

wherein the method further comprises selectively receiving information from the access point maintained by the vendor at the point of purchase counter and from at least one other device that is predetermined.

13. (Original) The method of Claim 2, further comprising:

repeatedly sensing the at least one parameter and repeatedly deciding, based on comparing a value of the at least one parameter sensed to the criterion, whether or not to maintain enabled said first function while maintaining disabled said second function; and

maintaining enabled said first function while maintaining disabled said second function responsive to deciding that said value of the at least one parameter continues to satisfy the criterion; or

disabling said first function and enabling said second function responsive to deciding that the value of the at least one parameter no longer satisfies the criterion.

14. (Currently Amended) The ~~method~~ smartphone of Claim 6, wherein said paying for a product further comprises deducting/withdrawing an amount of money from an account.

15. (Currently Amended) The ~~method~~ smartphone of Claim 6,

wherein said using unlicensed frequencies comprises using unlicensed frequencies in a Time Division Duplex operation;

wherein said selectively sending information to at least one device comprises selectively sending information to the access point maintained by the vendor at the point of purchase counter and to at least one other device that is predetermined; and/or

wherein the ~~method further comprises~~ operations further comprise selectively receiving information from the access point maintained by the vendor at the point of purchase counter and from at least one other device that is predetermined.

16. (Original) The smartphone of Claim 7, wherein the operations further comprise:

repeatedly sensing the at least one parameter and repeatedly deciding, based on comparing a value of the at least one parameter sensed to the criterion, whether or not to maintain enabled said first function while maintaining disabled said second function; and

maintaining enabled said first function while maintaining disabled said second function responsive to deciding that said value of the at least one parameter continues to satisfy the criterion; or

disabling said first function and enabling said second function responsive to deciding that the value of the at least one parameter no longer satisfies the criterion.

REMARKS

With this amendment, claims 14-15 are amended. No new matter has been added. Applicant respectfully requests entry of the amendments contained herein and a prompt and favorable action on the merits.

No fees are believed to be due with this filing. If it is determined fees are due, please charge any fees required or credit any overpayment to our Deposit Account No. 502880 from which the undersigned is authorized to draw, during the pendency of this Application.

Respectfully submitted,

Carlson Caspers
225 S. Sixth Street
4200 Capella Tower
Minneapolis, MN 55402

Date: November 30, 2023

By: /Aaron W. Pederson/
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UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/523,863	**11/30/2023 05:52:57 PM Z ET**	**1348.002US10**

Title of Invention

MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	5052	FILED BY	SAGE KRUSE
PATENT CENTER #	63447080	FILING DATE	-
CUSTOMER #	138517	FIRST NAMED INVENTOR	Peter D. Karabinis
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Aaron Pederson

Documents

TOTAL DOCUMENTS: 3

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
PrelimAmend1348002US10.pdf		9	-	84 KB
PrelimAmend1348002US10-A.PE.pdf	(1-1)	1	Preliminary Amendment	66 KB
PrelimAmend1348002US10-CLM.pdf	(2-8)	7	Claims	72 KB
PrelimAmend1348002US10-REM.pdf	(9-9)	1	Applicant Arguments/Remarks Made in an Amendment	60 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
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PrelimAmend1348002US10-A.PE.pdf	94E7386FC7D494931BC3B63B45FE1361A845B7B1DEA00D2AB 0872F7E40F725360D9607D862113127CD87C9B1E7EBCFD9949 F905F840E596D9D19D0883892D2A2
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PrelimAmend1348002US10-REM.pdf	6B08247C69BF1EBAFACB9C756709A5FBAA163F687AC9BBAA DEBEB34950AB5BA11291C9EC9DAFEC01F58BB58012081216 CD1E7246DD5E65AB5E717C891CC9FAEF

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 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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.	:	18/523,863
Applicant	:	Telcom Ventures LLC
Filed	:	November 29, 2023
Confirmation No.:		5052
Docket No.	:	1348.002US10
Customer No.	:	138517
Title	:	MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

SECOND PRELIMINARY AMENDMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

Please amend the above-identified patent application prior to examination as follows.

Amendments to the Specification begin on page 2 of this paper.

Remarks begin on page 3 of this paper.

AMENDMENTS TO THE SPECIFICATION

Please replace the title of the application with the following title:

SYSTEMS/METHODS OF A TWO-STEP PROCESS IN ESTABLISHING A CAPABILITY, AND USING THE CAPABILITY, TO EXECUTE A FINANCIAL TRANSACTION BY A SMARTPHONE

Please replace the Abstract of the application with the following Abstract:

Systems/Methods are disclosed of a two-step process in (i) establishing a capability at a smartphone to conduct a financial transaction and (ii) using the established capability in conducting the financial transaction by paying for a product. According to some embodiments, the first step of the two-step process is performed responsive to sensing at least one parameter and determining that the at least one parameter sensed satisfies a criterion; then, an authorization to establish said capability is requested. Then, responsive to receiving the authorization, the capability to conduct the financial transaction is established at the smartphone. The second step in said two-step process may be performed, comprising using said capability that has been established to conduct the financial transaction and pay for a product, responsive to the smartphone sensing proximity to an access point maintained by a vendor and responsive to the at least one parameter being sensed and satisfying the criterion.

REMARKS

With this amendment, the specification has been amended to replace the Title and Abstract. No claims are amended. No new matter has been added. Applicant respectfully requests entry of the amendments contained herein and a prompt and favorable action on the merits.

No fees are believed to be due with this filing. If it is determined fees are due, please charge any fees required or credit any overpayment to our Deposit Account No. 502880 from which the undersigned is authorized to draw, during the pendency of this Application.

Respectfully submitted,

Carlson Caspers
225 S. Sixth Street
4200 Capella Tower
Minneapolis, MN 55402

Date: December 15, 2023

By: /Aaron W. Pederson/
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UNITED STATES
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P.O. Box 1450
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www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/523,863	**12/15/2023 01:23:23 PM Z ET**	**1348.002US10**

Title of Invention

MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	5052	FILED BY	SAGE KRUSE
PATENT CENTER #	63632258	FILING DATE	-
CUSTOMER #	138517	FIRST NAMED INVENTOR	Peter D. Karabinis
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Aaron Pederson

Documents

TOTAL DOCUMENTS: 3

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
2ndPrelimAmend1348002US10.pdf		3	-	74 KB
2ndPrelimAmend1348002US10-A.PE.pdf	(1-1)	1	Preliminary Amendment	67 KB
2ndPrelimAmend1348002US10-SPEC.pdf	(2-2)	1	Specification	61 KB
2ndPrelimAmend1348002US10-REM.pdf	(3-3)	1	Applicant Arguments/Remarks Made in an Amendment	61 KB

Samsung Ex. 1014, Page 79 of 364

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
2ndPrelimAmend1348002US10.pdf	62B3678DB3EE1EEF4E2757E9D8BBCE1A699955E6D4E066BD7F5984F85BB5817C1D467B550BAB9280F2A573699139DCA0D1A295F3B2AFA018F7E582C987D1A26A
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2ndPrelimAmend1348002US10-REM.pdf	1427C9DD14C3FAC0AC535258E344BED8B3193DB09B242A3F3CB5198A5ACBBD7E90B88FC4A4ACD1DCF95EAF99F1CFCE56B6F412809D2E98E44F321E1068CF46EC

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

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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.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 18/523,863

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	64		N/A	
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	280		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	320		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	16 minus 20 =	* 0	x =	0	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2 minus 3 =	*	x =	0			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			0			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0			
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	664		TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
18/523,863	11/29/2023		664	1348.002US10	16	2

CONFIRMATION NO. 5052

FILING RECEIPT

138517
Carlson, Caspers, Vandenburgh & Lindquist, P.A.
225 S. Sixth St.
Ste. 4200
Minneapolis, MN 55402

Date Mailed: 12/26/2023

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Peter D. Karabinis, Cary, NC;
Rajendra Singh, Indian Creek Village, FL;

Applicant(s)

Telcom Ventures LLC, Miami, FL;

Power of Attorney: The patent practitioners associated with Customer Number 138517

Domestic Priority data as claimed by applicant

This application is a DIV of 18/489,517 10/18/2023
which is a CON of 18/450,517 08/16/2023
which is a CON of 17/653,748 03/07/2022 PAT 11,770,756
which is a CON of 15/929,609 05/12/2020 PAT 11,304,118
which is a CON of 16/012,513 06/19/2018 PAT 10,660,015
which is a DIV of 15/800,885 11/01/2017 PAT 10,219,199
which is a CON of 15/251,882 08/30/2016 PAT 9,832,708
which is a CON of 12/264,711 11/04/2008 PAT 9,462,411

Foreign Applications for which priority is claimed (You may be eligible to benefit from the Patent Prosecution Highway program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 12/21/2023

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/523,863**

Projected Publication Date: 04/04/2024

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

Preliminary Class

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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Kathi Vidal
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Derrick Brent
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PTO/SB/08a (01-22)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	18523863
	Filing Date	2023-11-29
	First Named Inventor	Peter D. Karabinis
	Art Unit	2641
	Examiner Name	Docket CENTRAL
	Attorney Docket Number	1348.002US10

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	Examiner Name	Docket CENTRAL
	Attorney Docket Number	1348.002US10

	1	U.S. PATENT AND TRADEMARK OFFICE, "Non-Final Office Action", Application Serial No. 18/489,517, 12/13/2023, 7 pgs.	☐

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[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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	First Named Inventor	Peter D. Karabinis
	Art Unit	2641
	Examiner Name	Docket CENTRAL
	Attorney Docket Number	1348.002US10

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

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A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Aaron Pederson/	Date (YYYY-MM-DD)	2023-12-28
Name/Print	Aaron Pederson	Registration Number	58607

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1.14. This collection is estimated to take 1 hour 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. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/523,863	**12/28/2023 01:17:39 PM Z ET**	**1348.002US10**

Title of Invention

MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	5052	FILED BY	SAGE KRUSE
PATENT CENTER #	63775795	FILING DATE	11/29/2023
CUSTOMER #	138517	FIRST NAMED INVENTOR	Peter D. Karabinis
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Aaron Pederson

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
IDS1348002US10.pdf	4	Information Disclosure Statement (IDS) Form (SB08)	1252 KB
18489517NFOA13DEC2023.pdf	8	Other reference-Patent/Application/Search Documents	6106 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
IDS1348002US10.pdf	73D26ED2360056629DE99BF6782367F86B8A3AC2601B1CC7D

	AF567F9944314A7457BE1D063B8FE64B56B43D72CEA1CCFB963BFD82F8F3958F4537B12BF9ED609
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/523,863	11/29/2023	Peter D. Karabinis	1348.002US10	5052

138517 7590 01/18/2024

Carlson, Caspers, Vandenburgh & Lindquist, P.A.
225 S. Sixth St.
Ste. 4200
Minneapolis, MN 55402

EXAMINER	
CENTRAL, DOCKET	

ART UNIT	PAPER NUMBER
2641	

NOTIFICATION DATE	DELIVERY MODE
01/18/2024	ELECTRONIC

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

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Decision Granting Request for Prioritized Examination (Track I)	**Application No.** 18/523,863	**Applicant(s)** Karabinis et al.	
	Examiner CHERYL P GIBSON BAYLOR	**Art Unit** OPET	**AIA (FITF) Status** No

1. THE REQUEST FILED 29 November 2023 IS **GRANTED** .

The above-identified application has met the requirements for prioritized examination
- A. ☑ for an original nonprovisional application (Track I).
- B. ☐ for an application undergoing continued examination (RCE).

2. **The above-identified application will undergo prioritized examination**. The application will be accorded special status throughout its entire course of prosecution until one of the following occurs:
   - A. filing a **petition for extension of time** to extend the time period for filing a reply;
   - B. filing an **amendment to amend the application to contain more than four independent claims, more than thirty total claims** , or a multiple dependent claim;
   - C. filing a **request for continued examination** ;
   - D. filing a notice of appeal;
   - E. filing a request for suspension of action;
   - F. mailing of a notice of allowance;
   - G. mailing of a final Office action;
   - H. completion of examination as defined in 37 CFR 41.102; or
   - I. abandonment of the application.

Telephone inquiries with regard to this decision should be directed to CHERYL GIBSON BAYLOR at (571)272-3213. In his/her absence, calls may be directed to Petition Help Desk at (571) 272-3282.

/CHERYL GIBSON BAYLOR/ Paralegal Specialist, OPET	

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/523,863	**01/23/2024 04:40:45 PM Z ET**	**1348.002US10**

Title of Invention

MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	5052	FILED BY	SAGE KRUSE
PATENT CENTER #	64057980	FILING DATE	11/29/2023
CUSTOMER #	138517	FIRST NAMED INVENTOR	Peter D. Karabinis
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Aaron Pederson

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
IDS1348002US10.pdf	4	Information Disclosure Statement (IDS) Form (SB08)	1252 KB
NOA18489517.pdf	7	Other reference-Patent/Application/Search Documents	753 KB

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IDS1348002US10.pdf	8B3A32D182C3619A5178B23F6638C5F2E9750649A0749B2594

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	Application Number	18523863
	Filing Date	2023-11-29
	First Named Inventor	Peter D. Karabinis
	Art Unit	2643
	Examiner Name	William NEALON
	Attorney Docket Number	1348.002US10

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	Art Unit	2643
	Examiner Name	William NEALON
	Attorney Docket Number	1348.002US10

	1	U.S. PATENT AND TRADEMARK OFFICE, "Notice of Allowance", Application Serial No. 18/489,517, January 12, 2024, 12 pgs.	☐

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	Examiner Name	William NEALON
	Attorney Docket Number	1348.002US10

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☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Aaron Pederson/	Date (YYYY-MM-DD)	2024-01-23
Name/Print	Aaron Pederson	Registration Number	58607

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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of References Cited	Application/Control No. 18/523,863	Applicant(s)/Patent Under Reexamination Karabinis et al.	
	Examiner MICHAEL T VU	Art Unit 2641	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Name	CPC Classification	US Classification
*	A	US-7233260-B2	2007-06-19	Tang; Wai-Cheung	G08G1/017	705/13
	B					
	C					
	D					
	E					
	F					
	G					
	H					
	I					
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	K					
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	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Country	Name	CPC Classification
	N					
	O					
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	R					
	S					
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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/523,863	Karabinis et al.
	Examiner	**Art Unit**
	MICHAEL T VU	2641

CPC						
Symbol					**Type**	**Version**
H04W	/	48	/	04	F	2013-01-01
H04W	/	4	/	023	I	2013-01-01
H04W	/	4	/	029	I	2018-02-01
H04W	/	4	/	80	I	2018-02-01
H04W	/	76	/	10	I	2018-02-01
G06Q	/	30	/	0601	I	2013-01-01
H04L	/	67	/	52	I	2022-05-01
H04W	/	88	/	06	A	2013-01-01

CPC Combination Sets							
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	16	
/MICHAEL T VU/ Primary Examiner, Art Unit 2641	01 February 2024	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office — Part of Paper No.: 20240130

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/523,863	Karabinis et al.
	Examiner	Art Unit
	MICHAEL T VU	2641

INTERNATIONAL CLASSIFICATION					
CLAIMED					
H04W	/	4	/	80	

NON-CLAIMED					
	/		/		

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					

NONE (Assistant Examiner)	(Date)	Total Claims Allowed: 16	
/MICHAEL T VU/ Primary Examiner, Art Unit 2641 (Primary Examiner)	01 February 2024 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 1

U.S. Patent and Trademark Office

Part of Paper No.: 20240130

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/523,863	Karabinis et al.
	Examiner	Art Unit
	MICHAEL T VU	2641

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

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	14	10												
2	2	7	11												
4	3	8	12												
5	4	3	13												
6	5	15	14												
9	6	16	15												
10	7	11	16												
12	8														
13	9														

NONE (Assistant Examiner)	(Date)	Total Claims Allowed: 16	
/MICHAEL T VU/ Primary Examiner, Art Unit 2641 (Primary Examiner)	01 February 2024 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 1

U.S. Patent and Trademark Office Part of Paper No.: 20240130

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/523,863	Karabinis et al.
	Examiner	Art Unit
	MICHAEL T VU	2641

CPC - Searched*		
Symbol	Date	Examiner
H04W 48/04, H04W 4/02	01/31/2024	MTV

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

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Search Notes		
Search Notes	Date	Examiner
Inventor Name: Peter D. Karabinis	01/31/2024	MTV
Assignee: Telcom Ventures LLC	01/31/2024	MTV
OC Searched System	01/31/2024	MTV

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
Interference	Text Searched	01/31/2024	MTV

/MICHAEL T VU/ Primary Examiner, Art Unit 2641	

Bibliographic Data

Application No: 18/523,863

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☑ No ☐ Met After Allowance

Verified and Acknowledged: /MICHAEL T VU/ (Examiner's Signature) | (Initials)

Title: MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
11/29/2023	455	2641	1348.002US10
RULE			

APPLICANTS

Telcom Ventures LLC, Miami, FL, UNITED STATES

INVENTORS

Peter D. Karabinis, Cary, NC, UNITED STATES

Rajendra Singh, Indian Creek Village, FL, UNITED STATES

CONTINUING DATA

This application is a DIV of 18489517 10/18/2023

18489517 is a CON of 18450517 08/16/2023

18450517 is a CON of 17653748 03/07/2022 PAT 11770756

17653748 is a CON of 15929609 05/12/2020 PAT 11304118

15929609 is a CON of 16012513 06/19/2018 PAT 10660015

16012513 is a DIV of 15800885 11/01/2017 PAT 10219199

15800885 is a CON of 15251882 08/30/2016 PAT 9832708

15251882 is a CON of 12264711 11/04/2008 PAT 9462411

FOREIGN APPLICATIONS

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Ste. 4200

Minneapolis, MN 55402
UNITED STATES

FILING FEE RECEIVED

$2,400

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	18523863
	Filing Date	2023-11-29
	First Named Inventor	Peter D. Karabinis
	Art Unit	2641
	Examiner Name	Docket CENTRAL
	Attorney Docket Number	1348.002US10

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	Examiner Name	Docket CENTRAL
	Attorney Docket Number	1348.002US10

	1	U.S. PATENT AND TRADEMARK OFFICE, "Non-Final Office Action", Application Serial No. 18/489,517, 12/13/2023, 7 pgs.	☐

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Examiner Signature	/MICHAEL T VU/	Date Considered	01/30/2024

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	Art Unit	2641
	Examiner Name	Docket CENTRAL
	Attorney Docket Number	1348.002US10

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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

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☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

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Name/Print	Aaron Pederson	Registration Number	58607

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Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

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	Filing Date	2023-11-29
	First Named Inventor	Peter D. Karabinis
	Art Unit	
	Examiner Name	
	Attorney Docket Number	1348.002US10

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6595929	B2	2003-07-22	Stivoric et al.	
	2	6769607	B1	2004-08-03	Pitroda et al.	
	3	6944981	B1	2005-09-20	Garberg et al.	
	4	6957107	B2	2005-10-18	Rogers et al.	
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	7	7155199	B2	2006-12-26	Zalewski et al.	
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	Attorney Docket Number	1348.002US10

	9	7503504	B2	2009-03-17	Mitra	
	10	7505941	B2	2009-03-17	Bishop et al.	
	11	7539241	B1	2009-05-26	Dick	
	12	7624923	B2	2009-12-01	Clark et al.	
	13	7780081	B1	2010-08-24	Liang	
	14	7822644	B2	2010-10-26	Alberth Jr. et al.	
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	17	8050337	B2	2011-11-01	Karabinis	
	18	8091780	B2	2012-01-10	Todd et al.	
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	20	8463238	B2	2013-06-11	Forstall et al.	
	21	8532069	B2	2013-09-10	Balwani	
	22	8646060	B1	2014-02-04	Ayed	
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	24	8965281	B2	2015-02-24	Raisanen et al.	
	25	RE39736		2007-07-17	Morrill Jr.	

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20020170961	A1	2002-11-21	Dickson et al.	
	2	20030172028	A1	2003-09-11	Abell et al.	
	3	20030220105	A1	2003-11-27	Daigremont et al.	

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	Filing Date	2023-11-29
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	Art Unit	
	Examiner Name	
	Attorney Docket Number	1348.002US10

	4	20040030601	A1	2004-02-12	Pond et al.	
	5	20040143505	A1	2004-07-22	Kovach	
	6	20040143550	A1	2004-07-22	Creamer et al.	
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	8	20050136949	A1	2005-06-23	Barnes	
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	13	20060145893	A1	2006-07-06	Hassett	
	14	20060159260	A1	2006-07-20	Pereira et al.	

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	15	20060165060	A1	2006-07-27	Dua	
	16	20060172700	A1	2006-08-03	Wu	
	17	20060194538	A1	2006-08-31	Palin et al.	
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	21	20070184837	A1	2007-08-09	Hohl et al.	
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	Examiner Name	
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	26	20070260710	A1	2007-11-08	Dowling	
	27	20070265984	A1	2007-11-15	Santhana	
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	30	20080140667	A1	2008-06-12	LaBiche	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	2023-11-29
	First Named Inventor	Peter D. Karabinis
	Art Unit	
	Examiner Name	
	Attorney Docket Number	1348.002US10

	37	20090023474	A1	2009-01-22	Luo et al.	
	38	20090058637	A1	2009-03-05	Kuo et al.	
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	41	20090169070	A1	2009-07-02	Fadell	
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	46	20120214443	A1	2012-08-23	Daigle	
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	1	"Digital wallet" Wikipedia (4 pages) (Printed on July 10, 2017)	☐
	2	"What Are Physiological Biometrics?" THALES, Mar. 2023, www.thalesgroup.com/en/markets/digital-identity-and-security/government/inspired/what-are-physiological-biometrics#:~:text=A%20fingerprint%20is%20an%20example,and%20characteristics%20of%20your%20body. Accessed 20 Jun. 2023.	☐
	3	Caen, the city where you pay and get information by taking out your cell phone. 01net.com. 20 October 2005. Retrieved on 4 October 2023 from https://www.01net.com/actualites/caen-la-ville-ou-lon-paye-et-sinforme-en-sortant-son-portable-292660.html	☐
	4	Google search results, "when did apple introduce the fingerprint sensor on the iphone?", https://www.google.com/search?q=when+did+apple+introduce+the+fingerprint+sensor+on+the+iphone%3F&rlz=1C5CHFA_enUS1053US1053&oq=&aqs=chrome.0.69i59i450l8.2238j0j15&sourceid=chrome&ie=UTF-8. Searched 17 Oct. 2023.	☐
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	Examiner Name	
	Attorney Docket Number	1348.002US10

	7	International Search Report and Written Opinion of the International Searching Authority for corresponding PCT Application No. PCT/US09/062792 (8 pages) (December 23, 2009)	☐
	8	J. Weatherbed, "10 years ago, Apple finally convinced us to lock our phones / Before Touch ID and fingerprint scanners, most of us couldn't be bothered to set a PIN or password to protect our mobile devices." The Verge. 12 Sept. 2023. Retrieved on 17 Oct. 2023 from https://www.theverge.com/23868464/apple-iphone-touch-id-fingerprint-security-ten-year-anniversary.	☐
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	10	U.S. PATENT AND TRADEMARK OFFICE, "Final Office Action", Application Serial No. 15/929,609, 06/09/2021, 17 pgs.	☐
	11	U.S. PATENT AND TRADEMARK OFFICE, "Final Rejection", Application Serial No. 16/012,513, 12/11/2018, pp. 1-10	☐
	12	U.S. PATENT AND TRADEMARK OFFICE, "Final Rejection", Application Serial No. 16/012,513, 12/19/2019, pp. 1-14	☐
	13	U.S. PATENT AND TRADEMARK OFFICE, "Final Rejection", Application Serial No. 16/251,834, 12/17/2019, pp. 1-14	☐
	14	U.S. PATENT AND TRADEMARK OFFICE, "Non-Final Office Action", Application Serial No. 17/653,748, 06/08/2023, 19 pgs.	☐
	15	U.S. PATENT AND TRADEMARK OFFICE, "Notice of Allowance", Application Serial No. 15/929,609, December 9, 2021, 4 pgs.	☐
	16	U.S. PATENT AND TRADEMARK OFFICE, "Notice of Allowance", Application Serial No. 16/012,513, 03/26/2020, Pgs. 1-12	☐
	17	U.S. PATENT AND TRADEMARK OFFICE, "Notice of Allowance", Application Serial No. 16/251,834, 04/22/2020, Pgs. 1-9	☐

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	2023-11-29
	First Named Inventor	Peter D. Karabinis
	Art Unit	
	Examiner Name	
	Attorney Docket Number	1348.002US10

	18	U.S. PATENT AND TRADEMARK OFFICE, "Notice of Allowance", Application Serial No. 17/653,748, July 17, 2023, 9 pgs.	☐
	19	U.S. PATENT AND TRADEMARK OFFICE, "Office Action", Application Serial No. 15/929,609, 06/09/2021, 18 pgs.	☐
	20	U.S. PATENT AND TRADEMARK OFFICE, "Office Action", Application Serial No. 15/929,609, 12/01/2020, 16 pgs.	☐
	21	U.S. PATENT AND TRADEMARK OFFICE, "Office Action", Application Serial No. 16/012,513, 04/12/2019, pp. 1-11	☐
	22	U.S. PATENT AND TRADEMARK OFFICE, "Office Action", Application Serial No. 16/012,513, 07/31/2018, pp. 1-8	☐
	23	U.S. PATENT AND TRADEMARK OFFICE, "Office Action", Application Serial No. 16/251,834, 5/9/2019, pp. 1-10	☐
	24	U.S. PATENT AND TRADEMARK OFFICE, "Restriction Requirement", Application Serial No. 18/489,517, 11/28/2023, 8 pgs.	☐
	25	U.S. PATENT AND TRADEMARK OFFICE, "Supplemental Notice of Allowability", Application Serial No. 17/653,748, July 28, 2023, 4 pgs.	☐

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Examiner Signature	/MICHAEL T VU/	Date Considered	01/30/2024

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	2023-11-29
	First Named Inventor	Peter D. Karabinis
	Art Unit	
	Examiner Name	
	Attorney Docket Number	1348.002US10

CERTIFICATION STATEMENT

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A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Aaron Pederson/	Date (YYYY-MM-DD)	2023-11-29
Name/Print	Aaron Pederson	Registration Number	58607

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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

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	Application Number	18523863
	Filing Date	2023-11-29
	First Named Inventor	Peter D. Karabinis
	Art Unit	2643
	Examiner Name	William NEALON
	Attorney Docket Number	1348.002US10

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	First Named Inventor	Peter D. Karabinis
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L4	151	("5243652" | "5351293" | "6119096" | "6985588" | "7120254" | "7143289" | "7194273" | "7500607" | "7512989" | "7660418" | "7866544" | "8064378" | "8254902" | "8280787" | "8328094" | "8438066" | "8566233" | "8604901" | "8626194" | "9197414" | "9203793" | "9239993" | "9501773" | "9661216" | "9723010" | "9749664" | "10332162" | "10650621" | "11055800" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 12:47 PM

		"20010016825" | "20030027551" | "20030169881" | "20030174049" | "20040142658" | "20040169589" | "20050039208" | "20050256724" | "20060046746" | "20060055512" | "20060122729" | "20060242027" | "20060245620" | "20070046426" | "20070053306" | "20070055672" | "20070055785" | "20070233615" | "20080102956" | "20080102957" | "20080162346" | "20080227434" | "20080302870" | "20090042557" | "20090098921" | "20090171842" | "20090204457" | "20090215427" | "20090251282" | "20100046553" | "20100094693" | "20100175001" | "20100198728" | "20100308108" | "20110022517" | "20110066513" | "20110091092" | "20110130885" | "20110137804" | "20110177831" | "20110179064" | "20110288768" | "20110313930" | "20120015622" | "20120052787" | "20120144458" | "20120150686" | "20120166257" | "20120181333" | "20120203665" | "20120330787" | "20120330788" | "20130079001" | "20130091452" | "20130117109" | "20130160087" | "20130166340" | "20130305059"				

		"20130346310" | "20140018111" | "20140032346" | "20140156318" | "20140181927" | "20140244411" | "20140254693" | "20140278220" | "20140297067" | "20140344011" | "20140380501" | "20150057925" | "20150066797" | "20150088619" | "20150096813" | "20150109428" | "20150127536" | "20150142612" | "20150193764" | "20150242832" | "20150296450" | "20150302409" | "20150373121" | "20150380501" | "20160048796" | "20160050203" | "20160078397" | "20160099905" | "20160148449" | "20160189096" | "20160286258" | "20160343187" | "20160352412" | "20160364559" | "20160368456" | "20170063549" | "20170068930" | "20170161716" | "20170180036" | "20170193419" | "20170206345" | "20170233098" | "20170262798" | "20170278156" | "20170302711" | "20170372541" | "20180007137" | "20180027037" | "20180027070" | "20180049250" | "20180098227" | "20180211527" | "20180234707" | "20190035042" | "20190095942" | "20190108690" | "20190148025" | "20190230212" |				

		"20190356741" | "20200042812" | "20200210951" | "20200265373" | "20210166257" | "20210192656").pn. AND (PGPB | USPT | USOC).dbnm.					
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L6	74	("6119096" | "8328094" | "8604901" | "9197414" | "9661216" | "9749664" | "10650621" | "20010016825" | "20030027551" | "20030174049" | "20040142658" | "20050256724" | "20060055512" | "20060242027" | "20060245620" | "20070046426" | "20080227434" | "20080302870" | "20090042557" | "20090251282" | "20100308108" | "20110091092" | "20110177831" | "20110288768" | "20120144458" | "20120150686" | "20120181333" | "20130079001" | "20130305059" | "20140018111" | "20140156318" | "20140244411" | "20140254693" | "20140278220" | "20140297067" | "20140380501" | "20150057925" | "20150088619" | "20150096813" | "20150109428" | "20150142612" | "20150242832" | "20150296450" | "20150373121" | "20150380501" | "20160050203" | "20160148449" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 12:48 PM

		"20160189096" | "20160286258" | "20160352412" | "20160364559" | "20160368456" | "20170063549" | "20170068930" | "20170161716" | "20170180036" | "20170193419" | "20170206345" | "20170233098" | "20170278156" | "20170302711" | "20170372541" | "20180007137" | "20180027037" | "20180027070" | "20180049250" | "20180098227" | "20180211527" | "20180234707" | "20190035042" | "20190095942" | "20190148025" | "20190230212" | "20200042812").pn. AND (PGPB | USPT | USOC).dbnm.					
L7	10	("7068795" | "20020170064" | "20130063612" | "20130159400" | "20140173669" | "20150077516" | "20150235540" | "20160050504" | "20160247383" | "20160285542").pn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 12:50 PM
L8	885	((("KARABINIS") near3 ("Peter")) OR (("SINGH") near3 ("Rajendra"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2024/01/30 12:51 PM
L9	52	("4631734" | "6097771" | "6317466" | "6763073" | "6888809" | "6973843" | "7006795" | "7031699" | "7050510" | "7116722" | "7155229" | "7203490" | "7444170" | "7831201" | "7848774" | "8108004" | "8170474" | "8340592" | "9232406" | "10181985" | "10375730" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 12:51 PM

		"10548068" | "10555321" | "10925033" | "20040181602" | "20040264592" | "20070047678" | "20070256135" | "20090168730" | "20090190926" | "20090224983" | "20100135445" | "20120275378" | "20130279614" | "20140006496" | "20140029485" | "20140295766" | "20140355591" | "20150004935" | "20160081064" | "20160269930" | "20160286340" | "20170126459" | "20170338978" | "20180054724" | "20180077708" | "20180218220" | "20180234869" | "20190341993" | "20190342901" | "20200067513" | "20200074857").pn. AND (PGPB | USPT | USOC).dbnm.					
L10	32	("6535738" | "6754493" | "7006816" | "7586514" | "8358967" | "8477190" | "8509140" | "9220086" | "20020173277" | "20040008253" | "20050250450" | "20070032246" | "20070207782" | "20080215204" | "20090111456" | "20100087980" | "20100153985" | "20100224732" | "20110021231" | "20110130092" | "20120007982" | "20120021694" | "20120122461" | "20120295537" | "20120323603" | "20130113831" | "20130130739" | "20140013002" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 12:52 PM

		"20140036702" | "20140295766" | "20150230150" | "20150230207").pn. AND (PGPB | USPT | USOC).dbnm.					
L11	70	("5652759" | "7028096" | "9338233" | "9456247" | "9460099" | "9503510" | "9740468" | "9792298" | "10021185" | "10091290" | "10291735" | "10382812" | "10433022" | "10686905" | "11388252" | "11418616" | "20040064325" | "20050283649" | "20070002871" | "20070094023" | "20080244657" | "20080273591" | "20090040957" | "20100023972" | "20110044227" | "20110059706" | "20130066936" | "20130254815" | "20130339407" | "20140025837" | "20140270713" | "20140334318" | "20150012615" | "20150039601" | "20150294002" | "20150319247" | "20160028448" | "20160132522" | "20160188700" | "20160259802" | "20160360255" | "20170013046" | "20170171114" | "20170230450" | "20170302575" | "20180138958" | "20180139508" | "20180248948" | "20180337993" | "20190056998" | "20190223029" | "20190273801" | "20200021655" | "20200034050" | "20200037035" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 12:52 PM

		"20200195745" | "20200243985" | "20200296155" | "20200328804" | "20200358646" | "20200374713" | "20210067814" | "20210098873" | "20210099749" | "20210127167" | "20210152865" | "20210165840" | "20220109724" | "20230021435" | "20230121384").pn. AND (PGPB | USPT | USOC).dbnm.					
L12	124	("3824469" | "4303904" | "4591823" | "4768220" | "4818998" | "5014052" | "5067147" | "5093924" | "5194846" | "5243598" | "5289183" | "5309503" | "5349631" | "5351052" | "5420794" | "5438329" | "5483666" | "5491469" | "5550536" | "5565858" | "5608723" | "5621412" | "5625672" | "5729590" | "5732360" | "5737705" | "5745049" | "5771454" | "5787346" | "5794151" | "5812522" | "5822698" | "5828963" | "5870392" | "5887176" | "5898384" | "5898683" | "5915219" | "5920818" | "5924030" | "5960351" | "5960352" | "5963129" | "5963848" | "5978117" | "6023459" | "6032046" | "6052595" | "6064320" | "6104285" | "6107917" | "6112152" | "6124810" | "6127928" | "6219539" | "6219613" | "6223125" | "6246954" | "6259991" | "6314299" | "6317598" | "6326903" | "6381231" | "6396417" | "6404751" | "6418317" | "6442473" | "6463279" | "6512752" | "6535544" | "6538563" | "6570487" | "6606033" | "6614387" | "6631268" | "6653946" | "6661352" | "6674966" | "6704546" | "6747558"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 12:52 PM

		| "6864784" | "6901057" | "6975667" | "6975865" | "6980838" | "6985090" | "6990348" | "7026935" | "7044387" | "7095719" | "7099675" | "7133680" | "7233260" | "7245602" | "7257426" | "7283037" | "7286040" | "7307964" | "7328004" | "7335525" | "7342500" | "7479896" | "7605842" | "7642897" | "7792484" | "8665068" | "20010002906" | "20010002908" | "20010016499" | "20010020198" | "20010044697" | "20010049284" | "20020059612" | "20020065099" | "20020175805" | "20030007473" | "20030016143" | "20030060159" | "20030072322" | "20040248573" | "20070137514" | "20130342368" | "20160054140" | "20190149960").pn. AND (PGPB | USPT | USOC).dbnm.					
L13	7148	("4101056" | "4262209" | "4389221" | "4484543" | "4607144" | "4615011" | "4813242" | "4843575" | "4972464" | "5065393" | "5111329" | "5192496" | "5208912" | "5247615" | "5307456" | "5383116" | "5446846" | "5453933" | "5469150" | "5537608" | "5562079" | "5598343" | "5668955" | "5691486" | "5695325" | "5712968" | "5719667" | "5726984" | "5732074" | "5745308" | "5772963" | "5781620" | "5784547" | "5788927" | "5819702" | "5844685" | "5872627" | "5873256" | "5883378" | "5901214" | "5908599" | "RE40073" | "RE40479" | "7558574" | "7558668" | "7561881" | "7561963"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 12:48 PM

		| "7565155" | "7571036" | "7571111" | "7571128" | "7574867" | "7577938" | "7580384" | "7580782" | "7581434" | "7583618" | "7584685" | "7586861" | "7586907" | "7586953" | "7590589" | "7593733" | "7593999" | "7594682" | "7596242" | "7603125" | "7603471" | "7603894" | "7606156" | "7610011" | "7610146" | "7620316" | "7620516" | "7620603" | "7627320" | "7629899" | "7629963" | "7630717" | "7630802" | "7630806" | "7633934" | "7634465" | "7636410" | "8194133" | "8194541" | "8194595" | "8195148" | "8195468" | "8195774" | "8200243" | "8201089" | "8203433" | "8209073" | "8209120" | "8209514" | "8212685" | "8212691" | "8213861" | "8213967" | "8219312" | "8228801" | "8228879" | "8228954" | "8229618" | "8229624" | "8229776" | "8229835" | "8231270" | "8238264" | "8238896" | "8238897" | "8239076" | "8243025" | "8244779" | "8246467" | "8255144" | "8255469" | "8259822" | "8260537" | "8260736" | "8262019" | "8265100" | "8265855" | "8265868" | "8266030" | "8271187" | "8275351" | "8275522" | "8275649" | "8280009" | "8280646" | "8281188" | "8290425" | "8290516" | "8294568" | "8295816" | "8296949" | "8297198" | "8301639" | "8306560" | "8310363" | "8311140" | "8311509" | "8311722" | "8311858" | "8311983" | "8312479" | "8315337" | "8319605" | "8319666" | "8320914" | "8321125" | "8321524" | "8323041" | "8325642" | "8326258" | "8326470" | "8326522" | "8326667" | "8327146" | "8334841" | "8335547"				

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L14	25	("5390233" | "5726984" | "6014377" | "6014560" | "6118993" | "6192231" | "6223029" | "6591114" | "6604140" | "6633759" | "6650894" | "6909878" | "6947759" | "6993357" | "6999769" | "7016648" | "7020467" | "20010006885" | "20020072390" | "20020147009" | "20030162544" | "20040053639" | "20050101261" | "20050197061" | "20060057961").pn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 12:54 PM
L15	8	("5241691" | "5301225" | "5382949" | "5574996" | "5621732" | "5627882" | "6009325" | "6366792").pn. AND	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 12:54 PM

		(PGPB | USPT | USOC).dbnm.					
L16	1	("5826198").pn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 12:54 PM
L17	14	("4696057" | "4697281" | "4885794" | "4905302" | "4908848" | "4912756" | "4972457" | "5003584" | "5134708" | "5197093" | "5203011" | "5203012" | "5233642" | "5241565").pn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 12:54 PM
L18	96	("5442680" | "5457737" | "5572528" | "5742237" | "5771438" | "5774791" | "5793763" | "5805166" | "5838252" | "5896369" | "5929848" | "5978386" | "5987011" | "5987033" | "6064734" | "6067291" | "6069896" | "6078789" | "6085098" | "6130602" | "6151628" | "6192257" | "6198948" | "6218958" | "6223029" | "6243581" | "6265788" | "6282183" | "6298443" | "6333973" | "6343276" | "6405027" | "6434537" | "6446127" | "6452910" | "6459882" | "6463078" | "6487180" | "6519460" | "6532366" | "6600428" | "6600734" | "6630925" | "6633759" | "6636489" | "6654616" | "6665549" | "6763247" | "6871063" | "20010047424" | "20020010008" | "20020010683" | "20020037700" | "20020055333" | "20020058502" | "20020063472" | "20020065099" | "20020065817" | "20020068559" | "20020068600" | "20020069037" | "20020082054" | "20020086718" | "20020091633" | "20020102974" | "20020118663" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 12:54 PM

		"20020128051" | "20020132610" | "20020142762" | "20020143952" | "20020155830" | "20020160764" | "20030013438" | "20030017810" | "20030022699" | "20030027563" | "20030032417" | "20030050058" | "20030054765" | "20030060188" | "20030060189" | "20030078036" | "20030091917" | "20030114105" | "20030115351" | "20030122856" | "20030143992" | "20030153280" | "20030187807" | "20030214940" | "20030224773" | "20030232616" | "20040048671" | "20040066769" | "20040196812" | "20040192384").pn. AND (PGPB | USPT | USOC).dbnm.					
L19	2	("6223029" | "6405027").pn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 12:54 PM
L20	5	("5138649" | "5806005" | "6192257" | "6317609" | "20020186668").pn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 12:57 PM
L21	6	("5689825" | "5844400" | "6256520" | "6321078" | "6323755" | "6323775").pn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 12:57 PM
L22	1965	(smartphone mobile pda portable cellular iphone ipad) SAME (financial AND transaction) AND (authoriz$4 authenticat$3) SAME (proximit$3 (short ADJ range)) SAME (value	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO,	OR	ON	ON	2024/01/30 01:05 PM

		parameter)	MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L23	452	(smartphone mobile pda portable cellular iphone ipad) SAME (financial AND transaction) AND (authoriz$4 authenticat$3) SAME (proximit$3 (short ADJ range)) SAME (determin$4 detect$3) near9 (value parameter)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/01/30 01:06 PM
L24	17	(smartphone mobile pda portable cellular iphone ipad) SAME (financial AND transaction) AND (authoriz$4 authenticat$3) SAME (proximit$3 (short ADJ range)) SAME (determin$4 detect$3) near9 (value parameter) AND signal AND number AND word AND code AND velocity AND accelerat$3 AND time-of-day AND humidit$3 AND temperatur$3 AND height AND brightness AND darkness AND (blood ADJ pressure) AND (heart rate blood) AND (physiological psychological)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/01/30 01:29 PM
L25	17	L24 AND ((G06Q30/0601).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO,	OR	ON	ON	2024/01/30 01:29 PM

			RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L26	17	L24 AND ((H04L67/52).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/01/30 01:29 PM
L27	17	L24 AND ((H04W4/02 OR H04W4/023 OR H04W4/029 OR H04W4/80 OR H04W48/04 OR H04W76/10 OR H04W88/06).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/01/30 01:30 PM
L28	15	L24 AND ((H04W4/02 OR H04W4/023 OR H04W4/029 OR H04W4/80 OR H04W48/04 OR H04W76/10 OR H04W88/06).cpc.)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/01/30 01:31 PM
L29	114	L23 AND ((H04W4/80 OR H04W12/06 OR H04W12/63 OR H04W4/023 OR H04W4/02 OR H04W4/029 OR H04W84/18 OR H04W88/06 OR H04W12/065 OR H04W4/021 OR H04W76/10 OR H04W12/12 OR	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/01/30 01:32 PM

		H04W48/04 OR H04W84/12 OR H04W12/08 OR H04W12/122 OR H04W4/21 OR H04W88/02 OR H04W4/16 OR H04W12/02 OR H04W12/033 OR H04W12/126 OR H04W12/50 OR H04W64/00 OR H04W12/04 OR H04W12/33 OR H04W12/69 OR H04W12/77 OR H04W12/71 OR H04W4/027 OR H04W12/062 OR H04W12/65 OR H04W4/14 OR H04W4/46 OR H04W4/48 OR H04W76/20 OR H04W84/10 OR H04W12/069 OR H04W12/082 OR H04W12/47 OR H04W12/64 OR H04W12/67 OR H04W4/025 OR H04W4/06 OR H04W48/18 OR H04W64/006 OR H04W72/51 OR H04W76/11 OR H04W84/04 OR H04W12/03 OR H04W12/068 OR H04W12/10 OR H04W12/61 OR H04W12/66 OR H04W12/68 OR H04W4/50 OR H04W8/26 OR H04W12/79 OR H04W36/18 OR H04W4/33 OR H04W4/40 OR H04W4/70 OR H04W4/90 OR H04W8/005 OR H04W80/04 OR H04W12/041 OR H04W12/45 OR H04W4/12 OR H04W4/18 OR H04W4/20 OR					

		H04W48/10 OR H04W56/00 OR H04W56/0015 OR H04W8/205 OR H04W84/042 OR H04W92/00).cpc.)					
L30	49	("7698398" | "8069435" | "8346929" | "8832857" | "8843997" | "9183560" | "9503452" | "9602508" | "9614828" | "10511590" | "10904240" | "20050044197" | "20060143231" | "20100199089" | "20110103265" | "20120216244" | "20130125226" | "20130174241" | "20140189827" | "20140189834" | "20140189840" | "20140282877" | "20160087957" | "20160112397" | "20160119323" | "20160337863" | "20160366119" | "20160366120" | "20160366121" | "20160366122" | "20170034183" | "20170126660" | "20170126661" | "20170155640" | "20170339176" | "20170372055" | "20180131685" | "20180145968" | "20180152439" | "20180152440" | "20180262484" | "20180316657" | "20180367526" | "20190068578" | "20190286806" | "20190332790" | "20200026834" | "20200177386" | "20200252374").pn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 01:32 PM
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		| "7962419" | "7971062" | "8127142" | "8127982" | "8205249" | "8261089" | "8346924" | "8423476" | "8457781" | "8510797" | "8510811" | "8516542" | "8572714" | "8612357" | "8615562" | "8756661" | "8776204" | "8831677" | "8904494" | "9077758" | "9374369" | "9396320" | "9419951" | "9426183" | "9444824" | "9510320" | "9613257" | "10325259" | "10387980" | "20030061111" | "20030115142" | "20040155101" | "20050060584" | "20050102530" | "20070011066" | "20070033136" | "20070118891" | "20070156611" | "20070262136" | "20080101283" | "20080196088" | "20080222283" | "20090077163" | "20090097661" | "20090132808" | "20090259838" | "20090271847" | "20090292927" | "20090307135" | "20100228996" | "20110035788" | "20110086612" | "20110093927" | "20110173017" | "20110173448" | "20110204142" | "20110209200" | "20110288996" | "20110296513" | "20110307949" | "20120117157" | "20120192260" | "20120330788" | "20130007849" | "20130047202" | "20130047213" | "20130111549" | "20130185205" | "20130205133" | "20130298242" | "20130305322" |				

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		"10051410" | "10089714" | "10179263" | "10182736" | "10187918" | "10275046" | "10362461" | "10420982" | "10478127" | "10575352" | "10583328" | "10588519" | "10599101" | "10602964" | "10610111" | "20020165733" | "20020196151" | "20030220584" | "20040147814" | "20040152956" | "20040203673" | "20040217850" | "20050038326" | "20050080322" | "20050116820" | "20050171410" | "20060084846" | "20060252976" | "20070033069" | "20070066403" | "20070067005" | "20070150028" | "20070219059" | "20080140159" | "20080146892" | "20080167534" | "20080206726" | "20080249969" | "20080262872" | "20080288406" | "20090013052" | "20090058635" | "20090058636" | "20090062887" | "20090063187" | "20090063193" | "20090093688" | "20090112695" | "20090192874" | "20090270170" | "20090270743" | "20090326339" | "20100033303" | "20100222645" | "20100295684" | "20100318424" | "20110001605" | "20110046971" |				

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		G06Q20/18 OR G06Q20/341 OR G06Q20/3821 OR G06Q20/42 OR G06Q20/04 OR G06Q20/047 OR G06Q20/32 OR G06Q20/3276 OR G06Q30/0207 OR G06Q20/02 OR G06Q20/085 OR G06Q20/123 OR G06Q20/223 OR G06Q20/381 OR G06Q20/3829 OR G06Q30/0266 OR G06Q40/00 OR G06Q10/0832 OR G06Q20/325 OR G06Q20/3274 OR G06Q2220/00 OR G06Q40/12 OR G06Q10/087 OR G06Q20/0457 OR G06Q20/105 OR G06Q20/3267 OR G06Q30/02 OR G06Q20/0855 OR G06Q20/16 OR G06Q20/24 OR G06Q20/308 OR G06Q20/3229 OR G06Q20/354 OR G06Q20/36 OR G06Q20/38215 OR G06Q20/3823 OR G06Q20/386 OR G06Q20/4012 OR G06Q30/0631 OR G06Q50/265 OR G06Q10/06311 OR G06Q10/083 OR G06Q10/0833 OR G06Q20/027 OR G06Q20/045 OR G06Q20/22 OR G06Q20/227 OR G06Q20/26 OR G06Q20/3272 OR G06Q30/0222 OR G06Q30/0226 OR G06Q30/0258 OR G06Q30/0259 OR G06Q30/0263 OR G06Q30/0264 OR G06Q30/0633 OR G06Q50/12 OR G06Q10/00 OR					

		G06Q10/20 OR G06Q20/209 OR G06Q20/321 OR G06Q20/352 OR G06Q20/3552 OR G06Q20/3825 OR G06Q20/387 OR G06Q20/403 OR G06Q20/409 OR G06Q20/4097 OR G06Q20/40975 OR G06Q20/425 OR G06Q30/0185 OR G06Q30/0238 OR G06Q30/0623 OR G06Q30/0639 OR G06Q30/0643 OR G06Q50/10 OR G06Q10/0635 OR G06Q10/107 OR G06Q10/109 OR G06Q20/065 OR G06Q20/28 OR G06Q20/363 OR G06Q20/38 OR G06Q20/389 OR G06Q30/00 OR G06Q10/06315 OR G06Q10/06375 OR G06Q10/08 OR G06Q20/00 OR G06Q20/3226 OR G06Q20/3227 OR G06Q20/3255 OR G06Q20/34 OR G06Q20/3558 OR G06Q20/3574 OR G06Q20/3676 OR G06Q20/388 OR G06Q20/4018 OR G06Q30/0609 OR G06Q40/03 OR G06Q50/188 OR G06Q20/201 OR G06Q20/30 OR G06Q20/306 OR G06Q20/3415 OR G06Q20/346 OR G06Q20/351 OR G06Q20/367 OR G06Q20/3672 OR G06Q30/0215 OR G06Q30/04 OR G06Q30/0611 OR G06Q30/0645 OR G06Q40/08 OR G06Q50/184 OR G06Q50/34 OR					

		G06Q10/04 OR G06Q10/06 OR G06Q10/06313 OR G06Q10/0633 OR G06Q10/0637 OR G06Q10/0639 OR G06Q10/067 OR G06Q10/0834 OR G06Q10/0835 OR G06Q10/0838 OR G06Q10/101 OR G06Q10/103 OR G06Q20/042 OR G06Q20/0655 OR G06Q20/0658 OR G06Q20/1235 OR G06Q20/14 OR G06Q20/206 OR G06Q20/3265 OR G06Q20/342 OR G06Q20/347 OR G06Q20/349 OR G06Q20/3563 OR G06Q20/3567 OR G06Q20/3572 OR G06Q20/40155 OR G06Q20/4093 OR G06Q2220/10 OR G06Q30/018 OR G06Q30/0201 OR G06Q30/0202 OR G06Q30/0206 OR G06Q30/0212 OR G06Q30/0267 OR G06Q30/0269 OR G06Q30/0278 OR G06Q30/0279 OR G06Q30/0613 OR G06Q30/0635 OR G06Q30/0641 OR G06Q30/08 OR G06Q40/04 OR G06Q40/128 OR G06Q50/18 OR G06Q50/26).cpc.)					
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		"20100332400" | "20110246316" | "20110251892" | "20120158297" | "20120160912" | "20120185386" | "20120265809" | "20130297422" | "20140122333" | "20140380193" | "20150230004" | "20170034581" | "20170064498" | "20170091810" | "20170300287").pn. AND (PGPB | USPT | USOC).dbnm.					
L48	32	("6145738" | "6328207" | "6536663" | "6578760" | "6669086" | "6856965" | "7090122" | "7257246" | "7559461" | "7611048" | "8096398" | "8172067" | "8225988" | "8249989" | "8332321" | "8424755" | "8548912" | "8573484" | "8972297" | "8985298" | "9076135" | "9163978" | "9311632" | "9368002" | "9380421" | "9432804" | "9525694" | "9589256" | "20120028609" | "20120084203" | "20130046687" | "20130205723").pn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 01:37 PM
L49	22	("7707089" | "7752135" | "8499355" | "8635117" | "8990121" | "9569767" | "20030112942" | "20070150387" | "20080035725" | "20080275760" | "20090094126" | "20100332400" | "20110153438" | "20120030116" | "20120084203" | "20120330840" | "20130189953" | "20130246187" | "20140172700" | "20140279518" | "20150206416" | "20160110718").pn. AND (PGPB | USPT |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 01:37 PM

		USOC).dbnm.					
L50	103	("6629149" | "6675153" | "6700535" | "6929149" | "6978165" | "7177594" | "7185204" | "7213742" | "7254406" | "7280847" | "7289810" | "7305245" | "7330112" | "7349871" | "7359674" | "7363494" | "7403762" | "7414988" | "7433649" | "7433694" | "7434723" | "7471954" | "7502933" | "7522058" | "7580699" | "7620026" | "7711620" | "7714712" | "7716484" | "7805376" | "7876701" | "7936736" | "7991644" | "8016201" | "8024272" | "20020169662" | "20030045272" | "20030074259" | "20030195808" | "20040030601" | "20040186768" | "20040190468" | "20040203895" | "20040245332" | "20040264466" | "20050174975" | "20050188062" | "20060069922" | "20060079284" | "20060085419" | "20070060130" | "20070078851" | "20070096909" | "20070106612" | "20070121534" | "20070178886" | "20070242765" | "20070280269" | "20080010190" | "20080037487" | "20080051059" | "20080097851" | "20080097879" | "20080109741" | "20080114647" | "20080133403" | "20080167961" | "20080181154" | "20080182591" | "20080182592" | "20080183571" | "20080189394" | "20080214166" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 01:38 PM

		"20080222711" | "20080261564" | "20080262928" | "20080306825" | "20090016248" | "20090016250" | "20090016255" | "20090016315" | "20090016353" | "20090016524" | "20090019168" | "20090061901" | "20090063624" | "20090270120" | "20090271211" | "20090285119" | "20090287827" | "20090310517" | "20090323647" | "20090323648" | "20090325601" | "20100062758" | "20100063867" | "20100096450" | "20110119733" | "20110238473" | "20110238476" | "20110258062" | "20120066043" | "20120066199").pn. AND (PGPB | USPT | USOC).dbnm.					
L51	58	("4491725" | "4689478" | "5276311" | "5590038" | "5594493" | "5748737" | "5884271" | "5939699" | "6131811" | "6161005" | "6336098" | "6607136" | "6617975" | "6641050" | "6718240" | "6736322" | "6769607" | "6785595" | "6925439" | "6967562" | "7003495" | "7097108" | "7128274" | "7152783" | "7213742" | "7343317" | "7681232" | "7907896" | "8082575" | "8200582" | "20020004746" | "20020198777" | "20030055785" | "20030166400" | "20040019564" | "20050021400" | "20050101314" | "20050116026" | "20050173519" | "20050194452" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 01:38 PM

		"20060190412" | "20070189581" | "20070252010" | "20070254712" | "20070278291" | "20070288313" | "20080059379" | "20080120186" | "20080147546" | "20090103732" | "20090199206" | "20090261166" | "20100057580" | "20100280948" | "20110062242" | "20110140841" | "20110218911" | "20110219026").pn. AND (PGPB | USPT | USOC).dbnm.					
L52	26	("4200770" | "4218582" | "5237612" | "5819226" | "5953652" | "5960411" | "6097938" | "6223290" | "6535728" | "6895236" | "7188251" | "7327705" | "7376431" | "20030169881" | "20030182194" | "20040123150" | "20040221163" | "20050239445" | "20050278542" | "20060194592" | "20070072587" | "20070100650" | "20070186106" | "20070250920" | "20070271379" | "20080207220").pn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 01:39 PM
L53	26	("6944478" | "7606560" | "7650409" | "7796013" | "7831264" | "20020123325" | "20030045270" | "20030217073" | "20040168173" | "20040267944" | "20050138433" | "20050182944" | "20060003782" | "20060068812" | "20060282886" | "20070032240" | "20070061881" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 01:39 PM

		"20070167136" | "20070174906" | "20070293275" | "20070300164" | "20080005087" | "20080117839" | "20080222706" | "20080288573" | "20090207187").pn. AND (PGPB | USPT | USOC).dbnm.					
L54	17	(smartphone phone mobile pda portable cellular iphone ipad) SAME (financial NEAR transaction) AND (authoriz$4 authenticat$3) SAME (proximit$3 (short ADJ range)) SAME (determin$4 detect$3) SAME (value parameter) AND signal AND number AND word AND code AND velocity AND accelerat$3 AND time-of-day AND humidit$3 AND temperatur$3 AND height AND brightness AND darkness AND (blood ADJ pressure) AND (heart rate blood) AND (physiological psychological)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/01/30 01:42 PM
L55	17	L54 AND ((H04W4/02 OR H04W4/023 OR H04W4/029 OR H04W4/80 OR H04W48/04 OR H04W76/10 OR H04W88/06).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/01/30 01:42 PM
L56	17	L54 AND ((H04L67/52).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB,	OR	ON	ON	2024/01/30 01:42 PM

			HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L57	17	L54 AND ((H04W4/02 OR H04W4/023 OR H04W4/029 OR H04W4/80 OR H04W48/04 OR H04W76/10 OR H04W88/06).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/01/30 01:42 PM
L58	17	L54 AND ((G06Q30/0601).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/01/30 01:43 PM
L59	15	L54 AND ((H04W4/02 OR H04W4/023 OR H04W4/029 OR H04W4/80 OR H04W48/04 OR H04W76/10 OR H04W88/06).cpc.)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/01/30 01:44 PM
L60	15	L54 AND ((G06Q30/0601).cpc.)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/01/30 01:44 PM
L61	301	(smartphone mobile pda portable cellular iphone ipad) SAME	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY,	OR	ON	ON	2024/01/30 01:45 PM

		(financial NEAR transaction) AND (authoriz$4 authenticat$3) SAME (proximit$3 (short ADJ range)) SAME (determin$4 detect$3) near14 (value parameter)	CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L62	69	L61 AND ((H04W12/06 OR H04W4/80 OR H04W12/63 OR H04W4/023 OR H04W4/02 OR H04W12/12 OR H04W4/029 OR H04W4/021 OR H04W84/18 OR H04W76/10 OR H04W88/06 OR H04W12/71 OR H04W48/04 OR H04W84/12 OR H04W12/126 OR H04W12/065 OR H04W12/122 OR H04W12/08 OR H04W12/72 OR H04W12/50 OR H04W64/006 OR H04W88/02 OR H04W12/02 OR H04W12/033 OR H04W12/04 OR H04W12/33 OR H04W4/027 OR H04W8/00 OR H04W8/24 OR H04W12/65 OR H04W12/77 OR H04W4/46 OR H04W4/48 OR H04W76/20 OR H04W12/69 OR H04W4/16 OR H04W48/18 OR H04W72/51 OR H04W76/11 OR H04W84/005 OR H04W12/069 OR H04W12/03 OR H04W36/18 OR H04W4/21 OR	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/01/30 01:46 PM

		H04W4/40 OR H04W4/70 OR H04W80/04 OR H04W12/062 OR H04W12/068 OR H04W4/025 OR H04W4/14 OR H04W4/18 OR H04W4/50 OR H04W64/00 OR H04W8/005 OR H04W8/205 OR H04W8/26 OR H04W84/04 OR H04W84/10 OR H04W92/00).cpc.)					
L63	32	("6513015" | "6845361" | "7047560" | "8332232" | "8548912" | "8972297" | "9076135" | "9311632" | "9380421" | "9432804" | "9525694" | "9589256" | "20040133477" | "20040133516" | "20050087594" | "20080114697" | "20090037339" | "20100332400" | "20110246316" | "20110251892" | "20120158297" | "20120160912" | "20120185386" | "20120265809" | "20130297422" | "20140122333" | "20140380193" | "20150230004" | "20170034581" | "20170064498" | "20170091810" | "20170300287").pn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 01:46 PM
L64	32	("6145738" | "6328207" | "6536663" | "6578760" | "6669086" | "6856965" | "7090122" | "7257246" | "7559461" | "7611048" | "8096398" | "8172067" | "8225988" | "8249989" | "8332321" | "8424755" | "8548912" | "8573484" | "8972297" | "8985298" | "9076135" | "9163978" | "9311632" | "9368002" | "9380421" | "9432804"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 01:46 PM

		| "9525694" | "9589256" | "20120028609" | "20120084203" | "20130046687" | "20130205723").pn. AND (PGPB | USPT | USOC).dbnm.					
L65	51	("8963806" | "9032501" | "9197414" | "9317110" | "20020151775" | "20030025603" | "20050071647" | "20090037526" | "20090322540" | "20120200499" | "20130259005" | "20130262298" | "20140101755" | "20140180582" | "20140187148" | "20140273858" | "20140282877" | "20140330408" | "20140372762" | "20140375461" | "20150028996" | "20150133193" | "20150277557" | "20150309582" | "20150331589" | "20150356289" | "20150381609" | "20160004224" | "20160036810" | "20160042172" | "20160050217" | "20160062514" | "20160100305" | "20160112520" | "20160133119" | "20160134932" | "20160140825" | "20160154952" | "20160189134" | "20160196760" | "20160209648" | "20160212695" | "20160306955" | "20160330770" | "20160337863" | "20160377491" | "20170023973" | "20170039358" | "20170055110" | "20170119295" | "20170180130").pn. AND (PGPB | USPT |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 01:46 PM

		USOC).dbnm.					
L66	27	("2912066" | "5993216" | "6081792" | "6176423" | "6262843" | "6298603" | "6494363" | "6543684" | "D492085" | "6871288" | "7314161" | "7726557" | "8162207" | "8255499" | "8332321" | "8499494" | "8762274" | "9235967" | "20020180696" | "20040262383" | "20070131757" | "20080275768" | "20100180018" | "20110174200" | "20130086465" | "20150179025").pn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 01:46 PM
L67	81	L61 AND ((G06Q20/40 OR G06Q30/0601 OR G06Q20/3224 OR G06Q20/20 OR G06Q20/3278 OR G06Q20/382 OR G06Q20/384 OR G06Q20/326 OR G06Q20/40145 OR G06Q20/204 OR G06Q20/4016 OR G06Q20/1085 OR G06Q20/4014 OR G06Q20/405 OR G06Q20/385 OR G06Q20/102 OR G06Q20/3674 OR G06Q20/10 OR G06Q20/12 OR G06Q20/3821 OR G06Q40/02 OR G06Q10/10 OR G06Q20/04 OR G06Q20/047 OR G06Q20/085 OR G06Q20/322 OR G06Q20/3223 OR G06Q20/327 OR G06Q20/341 OR G06Q20/401 OR G06Q20/32 OR G06Q20/325 OR G06Q20/3829 OR G06Q10/02 OR G06Q10/0832 OR G06Q20/0855 OR G06Q20/202 OR	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/01/30 01:48 PM

		G06Q20/36 OR G06Q20/4015 OR G06Q30/0261 OR G06Q20/0457 OR G06Q20/18 OR G06Q40/00 OR G06Q40/12 OR G06Q20/045 OR G06Q20/105 OR G06Q20/22 OR G06Q20/227 OR G06Q20/24 OR G06Q20/3229 OR G06Q20/3276 OR G06Q20/3823 OR G06Q2220/00 OR G06Q50/265 OR G06Q10/06311 OR G06Q20/02 OR G06Q20/027 OR G06Q20/16 OR G06Q20/26 OR G06Q20/308 OR G06Q20/3227 OR G06Q20/4012 OR G06Q30/0222 OR G06Q30/0258 OR G06Q30/0259 OR G06Q30/0263 OR G06Q30/0264 OR G06Q30/06 OR G06Q30/0631 OR G06Q30/0633 OR G06Q10/00 OR G06Q10/083 OR G06Q10/0833 OR G06Q10/20 OR G06Q20/108 OR G06Q20/209 OR G06Q20/3267 OR G06Q20/38215 OR G06Q20/386 OR G06Q20/387 OR G06Q20/42 OR G06Q30/0185 OR G06Q30/0207 OR G06Q30/0238 OR G06Q30/0623 OR G06Q30/0639 OR G06Q30/0643 OR G06Q20/00 OR G06Q20/28 OR G06Q20/352 OR G06Q20/3825 OR G06Q20/403 OR G06Q20/40975 OR G06Q50/12 OR G06Q10/107 OR					

		G06Q10/109 OR G06Q20/3255 OR G06Q20/351 OR G06Q20/354 OR G06Q20/3558 OR G06Q20/363 OR G06Q20/367 OR G06Q20/3676 OR G06Q20/388 OR G06Q20/389 OR G06Q20/4018 OR G06Q20/409 OR G06Q20/425 OR G06Q50/188 OR G06Q10/06315 OR G06Q10/06375 OR G06Q20/065 OR G06Q20/201 OR G06Q20/306 OR G06Q20/3226 OR G06Q20/34 OR G06Q20/3415 OR G06Q30/00 OR G06Q30/0609 OR G06Q30/0611 OR G06Q50/10 OR G06Q50/184 OR G06Q50/34 OR G06Q20/0655 OR G06Q20/0658 OR G06Q20/1235 OR G06Q20/321 OR G06Q20/3265 OR G06Q20/3274 OR G06Q20/342 OR G06Q20/346 OR G06Q20/347 OR G06Q20/349 OR G06Q20/3552 OR G06Q20/3567 OR G06Q20/3672 OR G06Q20/38 OR G06Q20/40155 OR G06Q20/4093 OR G06Q20/4097 OR G06Q30/0215 OR G06Q30/0226 OR G06Q30/0269 OR G06Q30/0278 OR G06Q30/0279 OR G06Q30/04 OR G06Q30/0635 OR G06Q30/0641 OR G06Q30/0645 OR G06Q40/03 OR G06Q40/08 OR G06Q50/00 OR G06Q50/18 OR					

		G06Q50/40).cpc.)					
L68	9	L61 AND ((H04B5/72 OR H04B7/24).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/01/30 01:49 PM
L69	81	L61 AND ((G06Q20/40 OR G06Q30/0601 OR G06Q20/3224 OR G06Q20/20 OR G06Q20/3278 OR G06Q20/382 OR G06Q20/384 OR G06Q20/326 OR G06Q20/40145 OR G06Q20/204 OR G06Q20/4016 OR G06Q20/1085 OR G06Q20/4014 OR G06Q20/405 OR G06Q20/385 OR G06Q20/102 OR G06Q20/3674 OR G06Q20/10 OR G06Q20/12 OR G06Q20/3821 OR G06Q40/02 OR G06Q10/10 OR G06Q20/04 OR G06Q20/047 OR G06Q20/085 OR G06Q20/322 OR G06Q20/3223 OR G06Q20/327 OR G06Q20/341 OR G06Q20/401 OR G06Q20/32 OR G06Q20/325 OR G06Q20/3829 OR G06Q10/02 OR G06Q10/0832 OR G06Q20/0855 OR G06Q20/202 OR G06Q20/36 OR G06Q20/4015 OR G06Q30/0261 OR	(US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB)	OR	ON	ON	2024/01/30 01:49 PM

		G06Q20/0457 OR G06Q20/18 OR G06Q40/00 OR G06Q40/12 OR G06Q20/045 OR G06Q20/105 OR G06Q20/22 OR G06Q20/227 OR G06Q20/24 OR G06Q20/3229 OR G06Q20/3276 OR G06Q20/3823 OR G06Q2220/00 OR G06Q50/265 OR G06Q10/06311 OR G06Q20/02 OR G06Q20/027 OR G06Q20/16 OR G06Q20/26 OR G06Q20/308 OR G06Q20/3227 OR G06Q20/4012 OR G06Q30/0222 OR G06Q30/0258 OR G06Q30/0259 OR G06Q30/0263 OR G06Q30/0264 OR G06Q30/06 OR G06Q30/0631 OR G06Q30/0633 OR G06Q10/00 OR G06Q10/083 OR G06Q10/0833 OR G06Q10/20 OR G06Q20/108 OR G06Q20/209 OR G06Q20/3267 OR G06Q20/38215 OR G06Q20/386 OR G06Q20/387 OR G06Q20/42 OR G06Q30/0185 OR G06Q30/0207 OR G06Q30/0238 OR G06Q30/0623 OR G06Q30/0639 OR G06Q30/0643 OR G06Q20/00 OR G06Q20/28 OR G06Q20/352 OR G06Q20/3825 OR G06Q20/403 OR G06Q20/40975 OR G06Q50/12 OR G06Q10/107 OR G06Q10/109 OR G06Q20/3255 OR G06Q20/351 OR					

		G06Q20/354 OR G06Q20/3558 OR G06Q20/363 OR G06Q20/367 OR G06Q20/3676 OR G06Q20/388 OR G06Q20/389 OR G06Q20/4018 OR G06Q20/409 OR G06Q20/425 OR G06Q50/188 OR G06Q10/06315 OR G06Q10/06375 OR G06Q20/065 OR G06Q20/201 OR G06Q20/306 OR G06Q20/3226 OR G06Q20/34 OR G06Q20/3415 OR G06Q30/00 OR G06Q30/0609 OR G06Q30/0611 OR G06Q50/10 OR G06Q50/184 OR G06Q50/34 OR G06Q20/0655 OR G06Q20/0658 OR G06Q20/1235 OR G06Q20/321 OR G06Q20/3265 OR G06Q20/3274 OR G06Q20/342 OR G06Q20/346 OR G06Q20/347 OR G06Q20/349 OR G06Q20/3552 OR G06Q20/3567 OR G06Q20/3672 OR G06Q20/38 OR G06Q20/40155 OR G06Q20/4093 OR G06Q20/4097 OR G06Q30/0215 OR G06Q30/0226 OR G06Q30/0269 OR G06Q30/0278 OR G06Q30/0279 OR G06Q30/04 OR G06Q30/0635 OR G06Q30/0641 OR G06Q30/0645 OR G06Q40/03 OR G06Q40/08 OR G06Q50/00 OR G06Q50/18 OR G06Q50/40).cpc.)					
L70	56	L61 AND ((G06F21/32	(US-PGPUB; USPAT;	OR	ON	ON	2024/01/30

		OR G06F16/639 OR G06F16/686 OR G06F21/35 OR G06F21/31 OR G06F16/335 OR G06F21/60 OR G06F16/168 OR G06F16/242 OR G06F16/9537 OR G06F21/34 OR G06F21/62 OR G06F16/2228 OR G06F18/00 OR G06F21/6254 OR G06F2221/2113 OR G06F3/00 OR G06F16/435 OR G06F16/4387 OR G06F16/9535 OR G06F21/00 OR G06F21/6218 OR G06F21/6245 OR G06F21/84 OR G06F2221/2111 OR G06F3/14 OR G06F8/60 OR G06F13/364 OR G06F13/404 OR G06F13/4282 OR G06F15/16 OR G06F16/487 OR G06F21/30 OR G06F21/44 OR G06F21/45 OR G06F21/64 OR G06F21/86 OR G06F3/0484 OR G06F8/65 OR G06F9/445 OR G06F1/00 OR G06F1/1626 OR G06F1/1632 OR G06F1/1643 OR G06F1/1694 OR G06F13/102 OR G06F15/00 OR G06F16/24578 OR G06F16/248 OR G06F16/258 OR G06F16/273 OR G06F16/43 OR G06F16/48 OR G06F16/489 OR G06F16/687 OR G06F16/951 OR G06F21/316 OR G06F21/41 OR G06F21/6227 OR	USOCR; EPO; JPO; DERWENT; IBM_TDB)				01:49 PM

		G06F21/71 OR G06F21/74 OR G06F2221/2101 OR G06F2221/2105 OR G06F2221/2143 OR G06F2221/2149 OR G06F2221/2153 OR G06F3/013 OR G06F3/017 OR G06F3/0416 OR G06F3/1454 OR G06F3/147 OR G06F40/205 OR G06F40/40 OR G06F7/02 OR G06F9/00 OR G06F9/451).cpc.)					
L71	4	L61 AND ((H04M1/72454 OR H04M15/68 OR H04M2215/0196 OR H04M2250/12 OR H04M1/72412 OR H04M15/854 OR H04M15/93 OR H04M2203/2011 OR H04M3/436 OR H04M7/006 OR H04M1/72469 OR H04M2203/1091 OR H04M2203/2016 OR H04M2203/652 OR H04M2207/20 OR H04M3/42314 OR H04M3/4234 OR H04M3/56 OR H04M7/0054 OR H04M7/1225 OR H04M1/0266 OR H04M1/21 OR H04M1/7243 OR H04M1/72451 OR H04M1/72457 OR H04M1/72513 OR H04M2201/14 OR H04M2203/2072 OR H04M2203/5063 OR H04M3/428 OR H04M3/46 OR H04M3/465 OR H04M3/48 OR H04M3/565 OR H04M1/0235 OR H04M1/23 OR H04M1/24 OR H04M1/72403 OR H04M1/72418 OR	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/01/30 01:50 PM

		H04M1/72445 OR H04M11/04 OR H04M2201/36 OR H04M2203/551 OR H04M2207/18 OR H04M2242/30 OR H04M2250/10 OR H04M2250/22 OR H04M3/42102 OR H04M3/42263 OR H04M3/42348 OR H04M3/42365 OR H04M3/4285 OR H04M3/53308 OR H04M3/58).cpc.)					
L72	6	L61 AND ((G01S19/13 OR G01S19/42 OR G01S5/10 OR G01S5/02).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/01/30 01:50 PM
L73	69	L61 AND ((H04W12/06 OR H04W4/80 OR H04W12/63 OR H04W4/023 OR H04W4/02 OR H04W12/12 OR H04W4/029 OR H04W4/021 OR H04W84/18 OR H04W76/10 OR H04W88/06 OR H04W12/71 OR H04W48/04 OR H04W84/12 OR H04W12/126 OR H04W12/065 OR H04W12/122 OR H04W12/08 OR H04W12/72 OR H04W12/50 OR H04W64/006 OR H04W88/02 OR H04W12/02 OR H04W12/033 OR H04W12/04 OR H04W12/33 OR	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/01/30 01:52 PM

		H04W4/027 OR H04W8/00 OR H04W8/24 OR H04W12/65 OR H04W12/77 OR H04W4/46 OR H04W4/48 OR H04W76/20 OR H04W12/69 OR H04W4/16 OR H04W48/18 OR H04W72/51 OR H04W76/11 OR H04W84/005 OR H04W12/069 OR H04W12/03 OR H04W36/18 OR H04W4/21 OR H04W4/40 OR H04W4/70 OR H04W80/04 OR H04W12/062 OR H04W12/068 OR H04W4/025 OR H04W4/14 OR H04W4/18 OR H04W4/50 OR H04W64/00 OR H04W8/005 OR H04W8/205 OR H04W8/26 OR H04W84/04 OR H04W84/10 OR H04W92/00).cpc.)					
L74	15	L54 AND ((G06Q30/0601).cpc.)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/01/30 01:53 PM
L75	5	L61 AND ((G01S19/13 OR G01S19/42 OR G01S5/10 OR G01S5/02).cpc.)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/01/30 01:54 PM
L76	56	L61 AND ((G06F21/32 OR G06F16/639 OR G06F16/686 OR G06F21/35 OR G06F21/31 OR G06F16/335 OR G06F21/60 OR G06F16/168 OR G06F16/242 OR G06F16/9537 OR G06F21/34 OR G06F21/62 OR G06F16/2228 OR G06F18/00 OR G06F21/6254 OR	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/01/30 01:54 PM

		G06F2221/2113 OR G06F3/00 OR G06F16/435 OR G06F16/4387 OR G06F16/9535 OR G06F21/00 OR G06F21/6218 OR G06F21/6245 OR G06F21/84 OR G06F2221/2111 OR G06F3/14 OR G06F8/60 OR G06F13/364 OR G06F13/404 OR G06F13/4282 OR G06F15/16 OR G06F16/487 OR G06F21/30 OR G06F21/44 OR G06F21/45 OR G06F21/64 OR G06F21/86 OR G06F3/0484 OR G06F8/65 OR G06F9/445 OR G06F1/00 OR G06F1/1626 OR G06F1/1632 OR G06F1/1643 OR G06F1/1694 OR G06F13/102 OR G06F15/00 OR G06F16/24578 OR G06F16/248 OR G06F16/258 OR G06F16/273 OR G06F16/43 OR G06F16/48 OR G06F16/489 OR G06F16/687 OR G06F16/951 OR G06F21/316 OR G06F21/41 OR G06F21/6227 OR G06F21/71 OR G06F21/74 OR G06F2221/2101 OR G06F2221/2105 OR G06F2221/2143 OR G06F2221/2149 OR G06F2221/2153 OR G06F3/013 OR G06F3/017 OR G06F3/0416 OR G06F3/1454 OR G06F3/147 OR G06F40/205 OR G06F40/40 OR					

		G06F7/02 OR G06F9/00 OR G06F9/451).cpc.)					
L77	81	L61 AND ((G06Q20/40 OR G06Q30/0601 OR G06Q20/3224 OR G06Q20/20 OR G06Q20/3278 OR G06Q20/382 OR G06Q20/384 OR G06Q20/326 OR G06Q20/40145 OR G06Q20/204 OR G06Q20/4016 OR G06Q20/1085 OR G06Q20/4014 OR G06Q20/405 OR G06Q20/385 OR G06Q20/102 OR G06Q20/3674 OR G06Q20/10 OR G06Q20/12 OR G06Q20/3821 OR G06Q40/02 OR G06Q10/10 OR G06Q20/04 OR G06Q20/047 OR G06Q20/085 OR G06Q20/322 OR G06Q20/3223 OR G06Q20/327 OR G06Q20/341 OR G06Q20/401 OR G06Q20/32 OR G06Q20/325 OR G06Q20/3829 OR G06Q10/02 OR G06Q10/0832 OR G06Q20/0855 OR G06Q20/202 OR G06Q20/36 OR G06Q20/4015 OR G06Q30/0261 OR G06Q20/0457 OR G06Q20/18 OR G06Q40/00 OR G06Q40/12 OR G06Q20/045 OR G06Q20/105 OR G06Q20/22 OR G06Q20/227 OR G06Q20/24 OR G06Q20/3229 OR G06Q20/3276 OR G06Q20/3823 OR G06Q2220/00 OR G06Q50/265 OR	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/01/30 01:55 PM

		G06Q10/06311 OR G06Q20/02 OR G06Q20/027 OR G06Q20/16 OR G06Q20/26 OR G06Q20/308 OR G06Q20/3227 OR G06Q20/4012 OR G06Q30/0222 OR G06Q30/0258 OR G06Q30/0259 OR G06Q30/0263 OR G06Q30/0264 OR G06Q30/06 OR G06Q30/0631 OR G06Q30/0633 OR G06Q10/00 OR G06Q10/083 OR G06Q10/0833 OR G06Q10/20 OR G06Q20/108 OR G06Q20/209 OR G06Q20/3267 OR G06Q20/38215 OR G06Q20/386 OR G06Q20/387 OR G06Q20/42 OR G06Q30/0185 OR G06Q30/0207 OR G06Q30/0238 OR G06Q30/0623 OR G06Q30/0639 OR G06Q30/0643 OR G06Q20/00 OR G06Q20/28 OR G06Q20/352 OR G06Q20/3825 OR G06Q20/403 OR G06Q20/40975 OR G06Q50/12 OR G06Q10/107 OR G06Q10/109 OR G06Q20/3255 OR G06Q20/351 OR G06Q20/354 OR G06Q20/3558 OR G06Q20/363 OR G06Q20/367 OR G06Q20/3676 OR G06Q20/388 OR G06Q20/389 OR G06Q20/4018 OR G06Q20/409 OR G06Q20/425 OR G06Q50/188 OR G06Q10/06315 OR G06Q10/06375 OR G06Q20/065 OR					

		G06Q20/201 OR G06Q20/306 OR G06Q20/3226 OR G06Q20/34 OR G06Q20/3415 OR G06Q30/00 OR G06Q30/0609 OR G06Q30/0611 OR G06Q50/10 OR G06Q50/184 OR G06Q50/34 OR G06Q20/0655 OR G06Q20/0658 OR G06Q20/1235 OR G06Q20/321 OR G06Q20/3265 OR G06Q20/3274 OR G06Q20/342 OR G06Q20/346 OR G06Q20/347 OR G06Q20/349 OR G06Q20/3552 OR G06Q20/3567 OR G06Q20/3672 OR G06Q20/38 OR G06Q20/40155 OR G06Q20/4093 OR G06Q20/4097 OR G06Q30/0215 OR G06Q30/0226 OR G06Q30/0269 OR G06Q30/0278 OR G06Q30/0279 OR G06Q30/04 OR G06Q30/0635 OR G06Q30/0641 OR G06Q30/0645 OR G06Q40/03 OR G06Q40/08 OR G06Q50/00 OR G06Q50/18 OR G06Q50/40).cpc.)					
L78	23	("4007355" | "6519571" | "8255284" | "8521131" | "9094257" | "20060213972" | "20080126251" | "20080248815" | "20090143104" | "20100190510" | "20100198626" | "20110022474" | "20110060652" | "20110072132" | "20110178863" | "20110178928" | "20120290389" |	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 01:55 PM

		"20140006284" | "20140247149" | "20140365334" | "20150310070" | "20160055498" | "20160210606").pn. AND (PGPB | USPT | USOC).dbnm.					
L79	508	("4035614" | "4254441" | "4591937" | "4609957" | "4845740" | "5266789" | "5434400" | "5463678" | "5589855" | "5590038" | "5603078" | "5652421" | "5729591" | "5764742" | "5850599" | "5878337" | "5945654" | "5960411" | "5991749" | "6006109" | "6021944" | "6032859" | "6061666" | "6129277" | "6154738" | "6175922" | "6193155" | "6234389" | "6263352" | "6308227" | "6330544" | "6341353" | "6363139" | "6400517" | "6431445" | "6476743" | "6481623" | "6497368" | "6536670" | "6579728" | "6612488" | "6813608" | "6832721" | "6850147" | "6868391" | "6896182" | "6898598" | "6944782" | "7003316" | "7013149" | "7085812" | "7149296" | "7155411" | "7163148" | "7167711" | "7233843" | "7252232" | "7324836" | "7343317" | "7363054" | "7409234" | "7433452" | "7475024" | "7478054" | "7493390" | "7505762" | "7506812" | "7520430" | "7552087" | "7575166" | "7580873" | "7581678" | "7600673" | "7603382" | "7708189" | "7764185" | "7793834" | "7805378" | "7810729" | "7818809" | "7869591" | "7896248" | "7918394" | "7945494" | "8015070" | "8060259" | "8112066" | "8190514" | "8228299" | "8231055" | "8266551" | "8281998" | "8376239" | "8401710" | "8423459" | "8434682" | "8459544" | "8498888"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 01:56 PM

		| "8577803" | "8577810" | "8579203" | "8602296" | "8630586" | "8676119" | "8732085" | "8788418" | "8855312" | "8859337" | "8892462" | "8939357" | "8965791" | "8972298" | "9010644" | "9064249" | "9092767" | "9092776" | "9092828" | "9195985" | "9224141" | "9542681" | "9704146" | "9721251" | "20010001856" | "20010029470" | "20010029484" | "20020002507" | "20020016765" | "20020030871" | "20020073043" | "20020077974" | "20020091646" | "20020099648" | "20020108062" | "20020169541" | "20020188535" | "20020188559" | "20030014317" | "20030061157" | "20030065805" | "20030089772" | "20030115126" | "20030115285" | "20030132300" | "20030135463" | "20030144040" | "20030182204" | "20030204447" | "20030217005" | "20030220835" | "20040012875" | "20040030601" | "20040041911" | "20040058705" | "20040087339" | "20040093496" | "20040104268" | "20040127256" | "20040128256" | "20040138999" | "20040193489" | "20040204074" | "20040204990" | "20040215520" | "20040219971" | "20040230489" | "20040230526" | "20050055582" | "20050077870" |					

		"20050209719" | "20050236480" | "20050242173" | "20050246245" | "20050247787" | "20060049255" | "20060064373" | "20060085333" | "20060094481" | "20060122902" | "20060131385" | "20060146839" | "20060208066" | "20060223580" | "20060234771" | "20060261149" | "20060273158" | "20070067833" | "20070069013" | "20070073619" | "20070100651" | "20070124211" | "20070155430" | "20070174080" | "20070208930" | "20070221728" | "20070244811" | "20070250623" | "20070255620" | "20070255653" | "20070255662" | "20070272740" | "20080027815" | "20080035725" | "20080037442" | "20080040265" | "20080040274" | "20080052176" | "20080059370" | "20080059375" | "20080078831" | "20080099375" | "20080103972" | "20080133351" | "20080147564" | "20080172306" | "20080177624" | "20080177662" | "20080177826" | "20080197188" | "20080208762" | "20080238610" | "20080249939" | "20080262925" | "20080270246" | "20080275779" | "20080277465" | "20080296978"				

		"20090068982" | "20090070228" | "20090098908" | "20090099961" | "20090100168" | "20090104920" | "20090106138" | "20090112766" | "20090117883" | "20090119190" | "20090125429" | "20090144161" | "20090159663" | "20090159681" | "20090187492" | "20090192904" | "20090266884" | "20090271265" | "20090288012" | "20090292591" | "20090313132" | "20090319421" | "20090319638" | "20100010906" | "20100063893" | "20100076777" | "20100082420" | "20100082490" | "20100102125" | "20100174596" | "20100174915" | "20100184479" | "20100191653" | "20100222000" | "20100223145" | "20100241536" | "20100243732" | "20100259559" | "20100263018" | "20100269059" | "20100306099" | "20110029416" | "20110040624" | "20110047013" | "20110055084" | "20110071892" | "20110084131" | "20110084139" | "20110084147" | "20110087550" | "20110087596" | "20110131128" | "20110137803" | "20110145049" | "20110145052" | "20110145082" | "20110161235" | "20110174879" |				

		"20110178883" | "20110180598" | "20110180601" | "20110191196" | "20110198395" | "20110202463" | "20110218871" | "20110246284" | "20110251892" | "20110251962" | "20110258014" | "20110258120" | "20110258689" | "20110259957" | "20110270747" | "20110276418" | "20110295750" | "20110302019" | "20110302080" | "20110313840" | "20110313867" | "20110313871" | "20110313880" | "20110320345" | "20120008851" | "20120011072" | "20120012653" | "20120016731" | "20120016794" | "20120022930" | "20120022944" | "20120029990" | "20120030044" | "20120059701" | "20120059718" | "20120059758" | "20120078736" | "20120084210" | "20120089418" | "20120095867" | "20120095871" | "20120110568" | "20120143772" | "20120150611" | "20120150643" | "20120150742" | "20120166311" | "20120173348" | "20120185306" | "20120185355" | "20120197740" | "20120197743" | "20120197794" | "20120209749" | "20120209773" | "20120214416" | "20120244885" | "20120246074" |				

		"20120254031" | "20120271707" | "20120271725" | "20120278727" | "20120284036" | "20120290422" | "20120290472" | "20120290609" | "20120296679" | "20120296726" | "20120323685" | "20130006773" | "20130019284" | "20130024341" | "20130024364" | "20130024371" | "20130030889" | "20130041824" | "20130048719" | "20130050080" | "20130054320" | "20130065672" | "20130066783" | "20130073363" | "20130085941" | "20130103574" | "20130103946" | "20130110607" | "20130117329" | "20130124333" | "20130132140" | "20130132246" | "20130132274" | "20130132887" | "20130134962" | "20130138563" | "20130144707" | "20130144792" | "20130151613" | "20130155474" | "20130159081" | "20130159172" | "20130159173" | "20130159446" | "20130166402" | "20130166445" | "20130173407" | "20130179227" | "20130181045" | "20130198018" | "20130204727" | "20130204777" | "20130204793" | "20130212655" | "20130218697" | "20130218721" | "20130225081" | "20130228616" |				

		"20130236109" | "20130246203" | "20130246207" | "20130246280" | "20130246301" | "20130248591" | "20130268431" | "20130290173" | "20130290187" | "20130290522" | "20130291018" | "20130297933" | "20130317835" | "20130317950" | "20130332354" | "20130332385" | "20130339253" | "20130346223" | "20140006205" | "20140012754" | "20140019236" | "20140025446" | "20140032297" | "20140052613" | "20140052617" | "20140057667" | "20140058861" | "20140067557" | "20140074569" | "20140074655" | "20140074658" | "20140074691" | "20140074716" | "20140081783" | "20140081853" | "20140081854" | "20140084059" | "20140089073" | "20140089078" | "20140096179" | "20140099888" | "20140100931" | "20140100973" | "20140101737" | "20140108245" | "20140114775" | "20140114781" | "20140122345" | "20140129135" | "20140129302" | "20140129357" | "20140129942" | "20140129951" | "20140136318" | "20140136349" | "20140149282" | "20140156508" | "20140156517" |				

		"20140164151" | "20140164234" | "20140180805" | "20140184505" | "20140189886" | "20140201067" | "20140207669" | "20140214567" | "20140214652" | "20140236762" | "20140249947" | "20140249999" | "20140250002" | "20140254820" | "20140257958" | "20140278589" | "20140279098" | "20140279184" | "20140379497" | "20140379536" | "20140379580" | "20150012426" | "20150025983" | "20150032567" | "20150058146" | "20150066765" | "20150073907" | "20150095228" | "20150100481" | "20150112822" | "20150112838" | "20150120418" | "20150134439" | "20150134513" | "20150134528" | "20150154581" | "20150178755" | "20150187021" | "20150194023" | "20150294312" | "20150332223" | "20150332237" | "20150356570" | "20150363757" | "20160027042" | "20160042339" | "20160086166" | "20160342992" | "20170270497" | "20170270505").pn. AND (PGPB | USPT | USOC).dbnm.					
L80	32	("6513015" | "6845361" | "7047560" | "8332232" | "8548912" | "8972297" | "9076135" | "9311632" | "9380421" | "9432804"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 01:56 PM

		| "9525694" | "9589256" | "20040133477" | "20040133516" | "20050087594" | "20080114697" | "20090037339" | "20100332400" | "20110246316" | "20110251892" | "20120158297" | "20120160912" | "20120185386" | "20120265809" | "20130297422" | "20140122333" | "20140380193" | "20150230004" | "20170034581" | "20170064498" | "20170091810" | "20170300287").pn. AND (PGPB | USPT | USOC).dbnm.					
L81	32	("6145738" | "6328207" | "6536663" | "6578760" | "6669086" | "6856965" | "7090122" | "7257246" | "7559461" | "7611048" | "8096398" | "8172067" | "8225988" | "8249989" | "8332321" | "8424755" | "8548912" | "8573484" | "8972297" | "8985298" | "9076135" | "9163978" | "9311632" | "9368002" | "9380421" | "9432804" | "9525694" | "9589256" | "20120028609" | "20120084203" | "20130046687" | "20130205723").pn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2024/01/30 01:56 PM
L82	202	(smartphone mobile pda portable cellular iphone ipad) SAME (financial NEAR transaction) AND (authoriz$4 authenticat$3) SAME (proximit$3 (short ADJ range)) SAME (determin$4 detect$3) near14 (value parameter) AND (vendor provider)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO;	OR	ON	ON	2024/01/30 01:58 PM

			JPO; DERWENT; IBM_TDB)				
L83	37	L82 AND ((H04W4/023 OR H04W12/06 OR H04W4/80 OR H04W12/63 OR H04W4/02 OR H04W4/029 OR H04W12/12 OR H04W4/021 OR H04W76/10 OR H04W88/06 OR H04W48/04 OR H04W12/71 OR H04W12/72 OR H04W12/126 OR H04W12/04 OR H04W12/08 OR H04W12/50 OR H04W8/00 OR H04W8/24 OR H04W12/65 OR H04W12/77 OR H04W64/006 OR H04W84/18 OR H04W12/33 OR H04W4/16 OR H04W84/005 OR H04W12/069 OR H04W84/12 OR H04W12/02 OR H04W12/03 OR H04W12/033 OR H04W36/18 OR H04W4/21 OR H04W4/70 OR H04W76/20 OR H04W80/04 OR H04W12/062 OR H04W12/068 OR H04W12/69 OR H04W4/027 OR H04W4/14 OR H04W4/18 OR H04W4/50 OR H04W48/18 OR H04W64/00 OR H04W72/51 OR H04W76/11 OR H04W84/04 OR H04W84/10).cpc.)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/01/30 01:58 PM
L84	112	L82 AND ((G06Q30/0601 OR G06Q20/3278 OR G06Q20/3224 OR G06Q20/384 OR G06Q20/20 OR	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB,	OR	ON	ON	2024/01/30 01:59 PM

		G06Q20/40 OR G06Q20/326 OR G06Q20/405 OR G06Q20/102 OR G06Q20/10 OR G06Q20/382 OR G06Q20/40145 OR G06Q10/02 OR G06Q20/202 OR G06Q20/204 OR G06Q20/322 OR G06Q30/0261 OR G06Q20/0457 OR G06Q20/3223 OR G06Q20/385 OR G06Q20/045 OR G06Q20/105 OR G06Q20/3229 OR G06Q20/3674 OR G06Q10/06311 OR G06Q20/047 OR G06Q20/085 OR G06Q20/16 OR G06Q20/26 OR G06Q20/3227 OR G06Q20/3829 OR G06Q20/401 OR G06Q20/4014 OR G06Q30/0222 OR G06Q30/0258 OR G06Q30/0259 OR G06Q30/0263 OR G06Q30/0264 OR G06Q30/06 OR G06Q20/02 OR G06Q20/04 OR G06Q20/108 OR G06Q20/12 OR G06Q20/325 OR G06Q20/341 OR G06Q20/386 OR G06Q20/387 OR G06Q30/0207 OR G06Q30/0238 OR G06Q30/0643 OR G06Q20/18 OR G06Q20/28 OR G06Q20/32 OR G06Q20/327 OR G06Q20/3276 OR G06Q20/36 OR G06Q20/4015 OR G06Q20/4016 OR G06Q2220/00 OR G06Q50/12 OR G06Q10/107 OR G06Q10/109 OR G06Q20/0855 OR	HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				

		G06Q20/3255 OR G06Q20/351 OR G06Q20/352 OR G06Q20/354 OR G06Q20/363 OR G06Q20/367 OR G06Q20/3821 OR G06Q20/3823 OR G06Q20/3825 OR G06Q20/389 OR G06Q20/4018 OR G06Q20/403 OR G06Q20/425 OR G06Q10/06315 OR G06Q10/06375 OR G06Q10/10 OR G06Q20/00 OR G06Q20/065 OR G06Q20/201 OR G06Q20/308 OR G06Q20/3226 OR G06Q20/34 OR G06Q20/3415 OR G06Q20/3558 OR G06Q20/3676 OR G06Q20/38215 OR G06Q20/388 OR G06Q20/40975 OR G06Q30/00 OR G06Q30/0609 OR G06Q30/0611 OR G06Q50/10 OR G06Q50/184 OR G06Q50/188 OR G06Q50/34 OR G06Q10/0832 OR G06Q20/027 OR G06Q20/0655 OR G06Q20/0658 OR G06Q20/1085 OR G06Q20/1235 OR G06Q20/227 OR G06Q20/24 OR G06Q20/306 OR G06Q20/321 OR G06Q20/3265 OR G06Q20/342 OR G06Q20/346 OR G06Q20/347 OR G06Q20/349 OR G06Q20/3552 OR G06Q20/3567 OR G06Q20/3672 OR G06Q20/38 OR G06Q20/4012 OR G06Q20/4093 OR G06Q20/4097 OR G06Q30/0185 OR					

		G06Q30/0215 OR G06Q30/0226 OR G06Q30/0269 OR G06Q30/0278 OR G06Q30/0279 OR G06Q30/04 OR G06Q30/0631 OR G06Q30/0633 OR G06Q30/0635 OR G06Q30/0641 OR G06Q30/0645 OR G06Q40/02 OR G06Q40/03 OR G06Q40/08 OR G06Q40/12 OR G06Q50/18).cpc.)					
L85	59	L82 AND ((G06F16/639 OR G06F16/686 OR G06F21/32 OR G06F16/335 OR G06F16/168 OR G06F16/242 OR G06F16/9537 OR G06F21/35 OR G06F21/6254 OR G06F16/435 OR G06F16/4387 OR G06F16/9535 OR G06F21/34 OR G06F21/6245 OR G06F2221/2113 OR G06F8/60 OR G06F16/487 OR G06F21/00 OR G06F21/30 OR G06F21/31 OR G06F21/45 OR G06F21/62 OR G06F2221/2111 OR G06F3/0484 OR G06F8/65 OR G06F9/445 OR G06F1/00 OR G06F1/1632 OR G06F15/00 OR G06F16/24578 OR G06F16/248 OR G06F16/258 OR G06F16/273 OR G06F16/43 OR G06F16/48 OR G06F16/489 OR G06F16/687 OR G06F16/951 OR G06F18/00 OR G06F21/41 OR	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/01/30 01:59 PM

		G06F21/6218 OR G06F21/6227 OR G06F21/64 OR G06F21/71 OR G06F2221/2105 OR G06F2221/2143 OR G06F2221/2149 OR G06F2221/2153 OR G06F3/14 OR G06F3/1454 OR G06F3/147 OR G06F40/205 OR G06F40/40 OR G06F7/02).cpc.)					
L86	83	L82 AND ((H04L67/52 OR H04L63/0853 OR H04L63/0861 OR H04L65/612 OR H04L2209/42 OR H04L63/061 OR H04L63/0876 OR H04L63/102 OR H04L63/123 OR H04L63/18 OR H04L65/61 OR H04L67/02 OR H04L63/083 OR H04L63/105 OR H04L63/1416 OR H04L65/1053 OR H04L65/1096 OR H04L2209/56 OR H04L63/107 OR H04L9/3226 OR H04L9/3247 OR H04L51/58 OR H04L63/0281 OR H04L63/0407 OR H04L63/0428 OR H04L63/0442 OR H04L63/0464 OR H04L63/062 OR H04L63/068 OR H04L63/0807 OR H04L63/0823 OR H04L63/0846 OR H04L63/12 OR H04L65/1104 OR H04L65/40 OR H04L65/403 OR H04L65/765 OR H04L67/01 OR H04L67/06 OR H04L9/321 OR H04L9/3239 OR H04L9/50 OR H04L12/28 OR	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/01/30 01:59 PM

		H04L12/2803 OR H04L12/2854 OR H04L2209/80 OR H04L27/32 OR H04L51/04 OR H04L51/214 OR H04L63/0272 OR H04L65/1089 OR H04L67/535 OR H04L67/562 OR H04L67/75 OR H04L9/0861 OR H04L9/0891 OR H04L9/14 OR H04L9/30 OR H04L9/32 OR H04L9/3213 OR H04L9/3215 OR H04L9/3271).cpc.)					
L87	83	L82 AND ((H04L67/52 OR H04L63/0853 OR H04L63/0861 OR H04L65/612 OR H04L2209/42 OR H04L63/061 OR H04L63/0876 OR H04L63/102 OR H04L63/123 OR H04L63/18 OR H04L65/61 OR H04L67/02 OR H04L63/083 OR H04L63/105 OR H04L63/1416 OR H04L65/1053 OR H04L65/1096 OR H04L2209/56 OR H04L63/107 OR H04L9/3226 OR H04L9/3247 OR H04L51/58 OR H04L63/0281 OR H04L63/0407 OR H04L63/0428 OR H04L63/0442 OR H04L63/0464 OR H04L63/062 OR H04L63/068 OR H04L63/0807 OR H04L63/0823 OR H04L63/0846 OR H04L63/12 OR H04L65/1104 OR H04L65/40 OR H04L65/403 OR H04L65/765 OR H04L67/01 OR H04L67/06 OR	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/01/30 02:00 PM

		H04L9/321 OR H04L9/3239 OR H04L9/50 OR H04L12/28 OR H04L12/2803 OR H04L12/2854 OR H04L2209/80 OR H04L27/32 OR H04L51/04 OR H04L51/214 OR H04L63/0272 OR H04L65/1089 OR H04L67/535 OR H04L67/562 OR H04L67/75 OR H04L9/0861 OR H04L9/0891 OR H04L9/14 OR H04L9/30 OR H04L9/32 OR H04L9/3213 OR H04L9/3215 OR H04L9/3271).cpc.)					
L88	25	L82 AND ((H04M15/68 OR H04M2215/0196 OR H04M2203/2011 OR H04M3/436 OR H04M7/006 OR H04M2203/1091 OR H04M2203/2016 OR H04M2203/652 OR H04M2207/20 OR H04M3/42314 OR H04M3/4234 OR H04M3/56 OR H04M7/0054 OR H04M7/1225 OR H04M1/0266 OR H04M1/21 OR H04M1/72451 OR H04M1/72454 OR H04M1/72513 OR H04M2201/14 OR H04M2203/2072 OR H04M2203/5063 OR H04M2250/12 OR H04M3/428 OR H04M3/46 OR H04M3/465 OR H04M3/48 OR H04M3/565 OR H04M1/0235 OR H04M1/72403 OR H04M1/72412 OR H04M1/72418 OR H04M1/72445 OR H04M1/72469 OR H04M11/04 OR	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/01/30 02:00 PM

		H04M15/854 OR H04M15/93 OR H04M2201/36 OR H04M2203/551 OR H04M2207/18 OR H04M2242/30 OR H04M2250/10 OR H04M3/42102 OR H04M3/42263 OR H04M3/42348 OR H04M3/42365 OR H04M3/4285 OR H04M3/53308 OR H04M3/58).cpc.)					
L89	53	L82 AND ((G06Q30/0601 OR G06Q20/3278 OR G06Q20/3224 OR G06Q20/384 OR G06Q20/20 OR G06Q20/40 OR G06Q20/326 OR G06Q20/405 OR G06Q20/102 OR G06Q20/10 OR G06Q20/382 OR G06Q20/40145 OR G06Q10/02 OR G06Q20/202 OR G06Q20/204 OR G06Q20/322 OR G06Q30/0261 OR G06Q20/0457 OR G06Q20/3223 OR G06Q20/385 OR G06Q20/045 OR G06Q20/105 OR G06Q20/3229 OR G06Q20/3674 OR G06Q10/06311 OR G06Q20/047 OR G06Q20/085 OR G06Q20/16 OR G06Q20/26 OR G06Q20/3227 OR G06Q20/3829 OR G06Q20/401 OR G06Q20/4014 OR G06Q30/0222 OR G06Q30/0258 OR G06Q30/0259 OR G06Q30/0263 OR G06Q30/0264 OR G06Q30/06 OR G06Q20/02 OR G06Q20/04 OR G06Q20/108 OR	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/01/30 02:01 PM

		G06Q20/12 OR G06Q20/325 OR G06Q20/341 OR G06Q20/386 OR G06Q20/387 OR G06Q30/0207 OR G06Q30/0238 OR G06Q30/0643 OR G06Q20/18 OR G06Q20/28 OR G06Q20/32 OR G06Q20/327 OR G06Q20/3276 OR G06Q20/36 OR G06Q20/4015 OR G06Q20/4016 OR G06Q2220/00 OR G06Q50/12 OR G06Q10/107 OR G06Q10/109 OR G06Q20/0855 OR G06Q20/3255 OR G06Q20/351 OR G06Q20/352 OR G06Q20/354 OR G06Q20/363 OR G06Q20/367 OR G06Q20/3821 OR G06Q20/3823 OR G06Q20/3825 OR G06Q20/389 OR G06Q20/4018 OR G06Q20/403 OR G06Q20/425 OR G06Q10/06315 OR G06Q10/06375 OR G06Q10/10 OR G06Q20/00 OR G06Q20/065 OR G06Q20/201 OR G06Q20/308 OR G06Q20/3226 OR G06Q20/34 OR G06Q20/3415 OR G06Q20/3558 OR G06Q20/3676 OR G06Q20/38215 OR G06Q20/388 OR G06Q20/40975 OR G06Q30/00 OR G06Q30/0609 OR G06Q30/0611 OR G06Q50/10 OR G06Q50/184 OR G06Q50/188 OR G06Q50/34 OR G06Q10/0832 OR G06Q20/027 OR					

		G06Q20/0655 OR G06Q20/0658 OR G06Q20/1085 OR G06Q20/1235 OR G06Q20/227 OR G06Q20/24 OR G06Q20/306 OR G06Q20/321 OR G06Q20/3265 OR G06Q20/342 OR G06Q20/346 OR G06Q20/347 OR G06Q20/349 OR G06Q20/3552 OR G06Q20/3567 OR G06Q20/3672 OR G06Q20/38 OR G06Q20/4012 OR G06Q20/4093 OR G06Q20/4097 OR G06Q30/0185 OR G06Q30/0215 OR G06Q30/0226 OR G06Q30/0269 OR G06Q30/0278 OR G06Q30/0279 OR G06Q30/04 OR G06Q30/0631 OR G06Q30/0633 OR G06Q30/0635 OR G06Q30/0641 OR G06Q30/0645 OR G06Q40/02 OR G06Q40/03 OR G06Q40/08 OR G06Q40/12 OR G06Q50/18).cpc.)					
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L111	1	L110 AND ((H04W12/69 OR H04W4/023 OR H04W48/18 OR H04W64/006 OR H04W72/51 OR H04W76/11 OR H04W76/20).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN,	OR	ON	ON	2024/02/01 10:15 AM

			WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N1	5	(smartphone mobile pda portable cellular iphone ipad) SAME (financial NEAR transaction) AND (authoriz$4 authenticat$3) SAME ((sens$3 search$3 scan$4) near9 (proximit$3 (short ADJ range))) SAME (determin$4 detect$3) near14 (value parameter) AND (vendor provider)	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/01 10:40 AM
N2	15	(smartphone phone mobile pda portable cellular iphone ipad) SAME (financial NEAR transaction) AND (authoriz$4 authenticat$3) SAME (proximit$3 (short ADJ range)) SAME (determin$4 detect$3) SAME (value parameter) AND signal AND number AND word AND code AND velocity AND accelerat$3 AND time-of-day AND humidit$3 AND temperatur$3 AND height AND brightness AND darkness AND (blood ADJ pressure) AND (heart rate blood) AND (physiological psychological)	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/01 10:41 AM

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NOTICE OF ALLOWANCE AND FEE(S) DUE

138517 7590 02/06/2024

Carlson, Caspers, Vandenburgh & Lindquist, P.A.
225 S. Sixth St.
Ste. 4200
Minneapolis, MN 55402

EXAMINER	
VU, MICHAEL T	
ART UNIT	PAPER NUMBER
2641	

DATE MAILED: 02/06/2024

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/523,863	11/29/2023	Peter D. Karabinis	1348.002US10	5052

TITLE OF INVENTION: MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0.00	$0.00	$480	05/06/2024

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 40% the amount of undiscounted fees, and micro entity fees are 20% the amount of undiscounted fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PTOL-85 (Rev. 11/23)

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

138517 7590 02/06/2024

Carlson, Caspers, Vandenburgh & Lindquist, P.A.
225 S. Sixth St.
Ste. 4200
Minneapolis, MN 55402

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via the USPTO patent electronic filing system or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/523,863	11/29/2023	Peter D. Karabinis	1348.002US10	5052

TITLE OF INVENTION: MOBILE DEVICE MODE ENABLEMENT/DISABLEMENT RESPONSIVE TO SENSING A PHYSIOLOGICAL PARAMETER

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0.00	$0.00	$480	05/06/2024

EXAMINER	ART UNIT	CLASS-SUBCLASS
VU, MICHAEL T	2641	455-456300

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

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(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. Fees submitted: ❑Issue Fee ❑Publication Fee (if required)

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❑ Applicant certifying micro entity status. See 37 CFR 1.29

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

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Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Ste. 4200
Minneapolis, MN 55402

EXAMINER	
VU, MICHAEL T	

ART UNIT	PAPER NUMBER
2641	

DATE MAILED: 02/06/2024

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

PTOL-85 (Rev. 11/23)

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. 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 1.14. This collection is estimated to take 30 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, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/ owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013).
https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf

Routine uses of the information in this record may include disclosure to:

1) law enforcement, in the event that the system of records indicates a violation or potential violation of law;
2) a federal, state, local, or international agency, in response to its request;
3) a contractor of the USPTO having need for the information in order to perform a contract;
4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record;
5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record;
6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations;
7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals;
8) another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c));
9) the Office of Personnel Management (OPM) for personnel research purposes; and
10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

Notice of Allowability	**Application No.** 18/523,863	**Applicant(s)** Karabinis et al.	
	Examiner MICHAEL T VU	**Art Unit** 2641	**AIA (FITF) Status** No

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

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to 11/29/2023.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ 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.

3. ☑ The allowed claim(s) is/are 1-16 . As a result of the allowed claim(s), 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.**

4. ☐ 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)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☑ Notice of References Cited (PTO-892)
2. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/MICHAEL T VU/
Primary Examiner, Art Unit 2641

DETAILED ACTION

Notice of Pre-AIA or AIA Status

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

Request for Prioritized Examination Under 37 CFR 1.102(e)

2. The Certification and Request for Prioritized Examination (Track I) filed on 11/29/2023 has been granted on 01/18/2024.

Information Disclosure Statement

3. The information disclosure statement (IDS) submitted on 01/23/2024, 12/28/2023, and 11/29/2023 are in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Preliminary Amendment

4. Applicant summits the Preliminary Amendment filed on 12/15/2023.

Drawings

5. The drawings were received on 11/29/2023. These drawings are considered by examiner.

Allowable Subject Matter

6. **Claims 1-16** are allowed.

7. The following is an examiner's statement of reasons for allowance:

With respect to claims 1 and 6, the closest prior art record, Kuo (US 2009/0058637) teaches a method of operating a smartphone in performing at least one financial transaction; the method including a two-step process in establishing and using a capability in order to perform said at least one financial transaction; the method comprising:

responsive to sensing at least one parameter by at least one sensor of the smartphone and responsive to determining that the at least one parameter that is sensed satisfies a criterion, performing a first step of said two-step process by enabling a mode to communicate by the smartphone information requesting an authorization to establish said capability;

while the mode is enabled, and as a precursor to performing a second step of said two-step process, transmitting by the smartphone first data to a first device requesting the authorization to establish said capability to perform said at least one financial transaction; and

However, Kuo alone or in combination fails teaches or fairly suggest;

receiving by the smartphone second data from the first device, comprising the authorization, responsive to said transmitting by the smartphone the first data; then

performing the second step of said two-step process comprising performing a first transaction of said at least one financial transaction, responsive to detecting by the smartphone that a proximity condition is satisfied and responsive to sensing the at least

one parameter and determining that the at least one parameter sensed satisfies the criterion;

wherein said performing the second step of said two-step process comprises sensing that the proximity condition is satisfied relative to an access point maintained by a vendor at a point of purchase counter, by detecting a short-range signal that is transmitted by the access point, determining that a value of the at least one parameter that is sensed satisfies the criterion and then, responsive to having sensed that the proximity condition is satisfied relative to the access point and having determined that the value of the at least one parameter sensed satisfies the criterion, paying for a product by selectively sending information to at least one device;

wherein said paying for a product by selectively sending information to at least one device comprises selectively and wirelessly transmitting information to the at least one device using unlicensed frequencies; and

wherein said at least one parameter comprises a signal, a number, a word, a code, a velocity, an acceleration, a time-of-day, a humidity, a temperature, a height, a level of brightness, a level of darkness, a blood pressure, a heart rate, a blood content, a physiological state and/or a psychological state.

Dependent claims 2-5, and 7-16 are allowable for the same reason as set forth above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL T VU whose telephone number is (571)272-8131. The examiner can normally be reached on 8:00AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles N. Appiah can be reached on 571-272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-272-8300.

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).

/MICHAEL T VU/
Primary Examiner, Art Unit 2641

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/523,863	**02/08/2024 01:40:19 PM Z ET**	**1348.002US10**

Title of Invention

SYSTEMS/METHODS OF A TWO-STEP PROCESS IN ESTABLISHING A CAPABILITY, AND USING THE CAPABILITY, TO EXECUTE A FINANCIAL TRANSACTION BY A SMARTPHONE

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	5052	FILED BY	SAGE KRUSE
PATENT CENTER #	64258595	AUTHORIZED BY	Aaron Pederson
CUSTOMER #	138517	FILING DATE	11/29/2023
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Peter D. Karabinis

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
DA / 502880	**E202428D41095569**	**SAGE KRUSE**

PRE-AUTHORIZED ACCOUNT	PRE-AUTHORIZED CATEGORY
502880	**37 CFR 1.16 (National application filing, search, and examination fees); 37 CFR 1.17 (Patent application and reexamination processing fees); 37 CFR 1.19 (Document supply fees); 37 CFR 1.20 (Post Issuance fees); 37 CFR 1.21 (Miscellaneous fees and charges)**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
2501	UTILITY ISSUE FEE	480.00	1	480.00
			TOTAL AMOUNT:	**$480.00**

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 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.

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CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Aaron Pederson

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
IssueFee1348002US10.pdf	1	Issue Fee Payment (PTO-85B)	1647 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
IssueFee1348002US10.pdf	3FC0DFDE6E8AD639EEAF62A1948F61853B1625E9017B3C7D 55FDF12A283C6F34A8CD04841AF6AA7C21C07E41ADA2C035 57A33D1579338E93FB2960C8C849180A

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(Typed or printed name)
(Signature)
(Date)

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EXAMINER	ART UNIT	CLASS-SUBCLASS
VU, MICHAEL T	2641	455-456300

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(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Carlson, Caspers, Vandenburgh & Lindquist, P.A.
2
3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

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(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

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NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Aaron Pederson/ Date February 8, 2024

Typed or printed name Aaron Pederson Registration No. 58,607

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
18/523,863	11/29/2023	2641	664	1348.002US10	16	2

CONFIRMATION NO. 5052

REPLACEMENT FILING RECEIPT

138517
Carlson, Caspers, Vandenburgh & Lindquist, P.A.
225 S. Sixth St.
Ste. 4200
Minneapolis, MN 55402

Date Mailed: 02/09/2024

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Peter D. Karabinis, Cary, NC;
Rajendra Singh, Indian Creek Village, FL;

Applicant(s)

Telcom Ventures LLC, Miami, FL;

Power of Attorney: The patent practitioners associated with Customer Number 138517

Domestic Priority data as claimed by applicant

This application is a DIV of 18/489,517 10/18/2023
which is a CON of 18/450,517 08/16/2023
which is a CON of 17/653,748 03/07/2022 PAT 11,770,756
which is a CON of 15/929,609 05/12/2020 PAT 11,304,118
which is a CON of 16/012,513 06/19/2018 PAT 10,660,015
which is a DIV of 15/800,885 11/01/2017 PAT 10,219,199
which is a CON of 15/251,882 08/30/2016 PAT 9,832,708
which is a CON of 12/264,711 11/04/2008 PAT 9,462,411

Foreign Applications for which priority is claimed (You may be eligible to benefit from the Patent Prosecution Highway program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 12/21/2023

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/523,863**

Projected Publication Date: 04/04/2024

Non-Publication Request: No

Early Publication Request: No
**** SMALL ENTITY ****
Title

SYSTEMS/METHODS OF A TWO-STEP PROCESS IN ESTABLISHING A CAPABILITY, AND USING THE CAPABILITY, TO EXECUTE A FINANCIAL TRANSACTION BY A SMARTPHONE

Preliminary Class

455

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/523,863	03/19/2024	11937172	1348.002US10	5052

138517 7590 02/28/2024

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ISSUE NOTIFICATION

The projected patent number and issue date are specified above. The patent will issue electronically. The electronically issued patent is the official patent grant pursuant to 35 U.S.C. § 153. The patent may be accessed on or after the issue date through Patent Center at https://patentcenter.uspto.gov/. The patent will be available in both the public and the private sides of Patent Center. Further assistance in electronically accessing the patent, or about Patent Center, is available by calling the Patent Electronic Business Center at 1-888-217-9197.

The USPTO is implementing electronic patent issuance with a transition period, during which period the USPTO will mail a ceremonial paper copy of the electronic patent grant to the correspondence address of record. Additional copies of the patent (i.e., certified and presentation copies) may be ordered for a fee from the USPTO's Certified Copy Center at https://certifiedcopycenter.uspto.gov/index.html. The Certified Copy Center may be reached at (800)972-6382.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Center (https://patentcenter.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Patents Stakeholder Experience (OPSE), Stakeholder Support Division (SSD) at (571)-272-4200.

INVENTOR(s) (Please see PATENT CENTER site https://patentcenter.uspto.gov for additional inventors):

Peter D. Karabinis, Cary, NC;
Rajendra Singh, Indian Creek Village, FL;

APPLICANT(s) (Please see PATENT CENTER site https://patentcenter.uspto.gov for additional applicants):

Telcom Ventures LLC, Miami, FL;

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/523,863	11/29/2023	Peter D. Karabinis	1348.002US10	5052

138517 7590 03/19/2024

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EXAMINER	
VU, MICHAEL T	

ART UNIT	PAPER NUMBER
2641	

NOTIFICATION DATE	DELIVERY MODE
03/19/2024	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):

docketing@carlsoncaspers.com
eofficeaction@appcoll.com

APPLICATION NO.	ISSUE DATE	PATENT NO.
18/523,863	19-Mar-2024	11937172

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EGRANT NOTIFICATION

Your electronic patent grant (eGrant) is now available, which can be accessed via Patent Center at https://patentcenter.uspto.gov

The electronic patent grant is the official patent grant under 35 U.S.C. 153. For more information, please visit https://www.uspto.gov/electronicgrants

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
18/523,863	11/29/2023	Peter D. Karabinis	1348.002US10

CONFIRMATION NO. 5052

138517
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225 S. Sixth St.
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PUBLICATION NOTICE

OC000000070668099

Date Mailed: 04/05/2024

Title:SYSTEMS/METHODS OF A TWO-STEP PROCESS IN ESTABLISHING A CAPABILITY, AND USING THE CAPABILITY, TO EXECUTE A FINANCIAL TRANSACTION BY A SMARTPHONE

Publication No.US-2024-0114432-A1
Publication Date:04/04/2024

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently https://portal.uspto.gov/pair/PublicPair. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Managment, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101