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**Ewell, Jr.**

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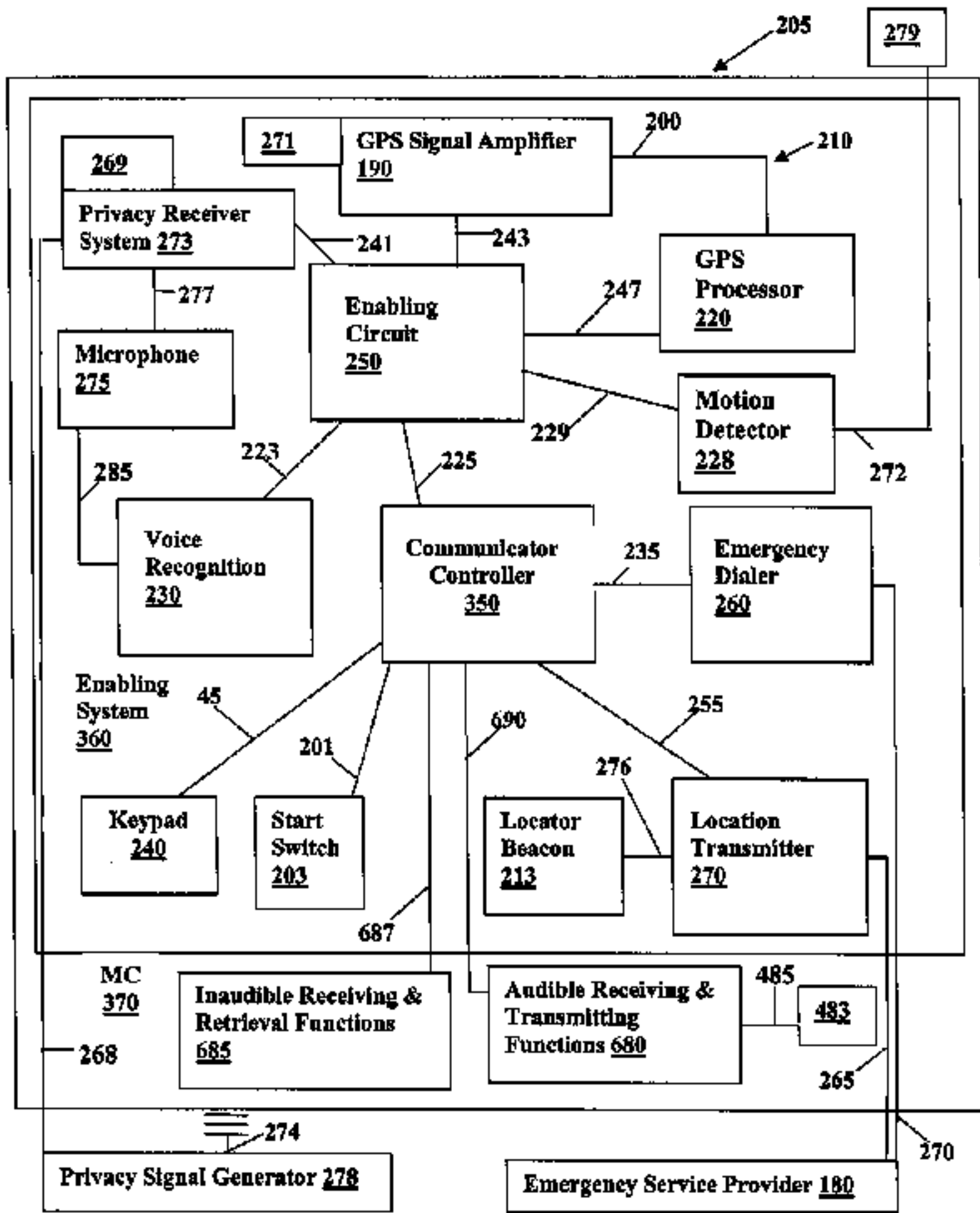
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| (51) | <b>Int. Cl.</b><br><b>H04M 11/04</b> (2006.01)                                                                                                                                                                                                                            |                   |         |                       |           |
| (52) | <b>U.S. Cl.</b> ..... <b>455/404.1</b> ; 455/404.2; 455/456; 342/357.12                                                                                                                                                                                                   |                   |         |                       |           |
| (58) | <b>Field of Classification Search</b> ..... 455/404.1, 455/404.2, 415, 456.4, 456.1, 567, 401.1, 455/587, 434, 552, 564, 423, 67.1, 553, 521, 455/161.1, 161.2, 161.3, 550, 575, 90, 90.1; 342/357.1, 357.12, 357.06<br>See application file for complete search history. |                   |         |                       |           |
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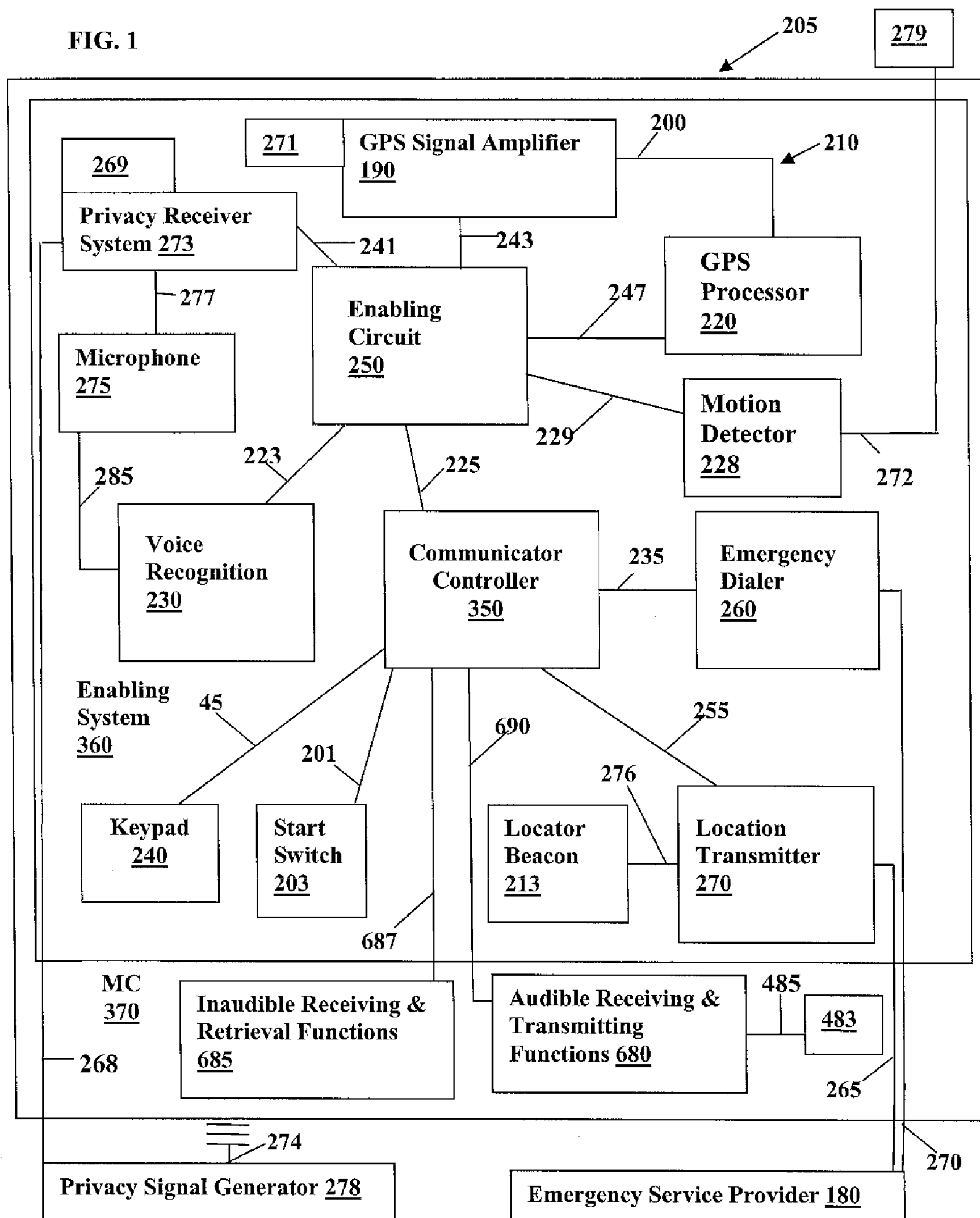
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**ABSTRACT**

An apparatus and method for enabling a Mobile Communicator, such as a cell phone or Mobile Communication Device. A Mobile Communicator comprising: an Enabling System, wherein the Enabling System includes a Global Positioning System (GPS) and an Enabling Circuit, wherein a logic of the Enabling Circuit enables the Mobile Communicator because an at least one condition has been satisfied. A kit for enabling a Mobile Communicator, comprising a Mobile Communicator in a Default Disabled State; and an Enabling System. A method for enabling a Mobile Communicator, comprising: providing a GPS and an Enabling System of the Mobile Communicator, wherein satisfying an at least one condition for enablement enables the Mobile Communicator.

20 Claims, 7 Drawing Sheets



**FIG. 1**



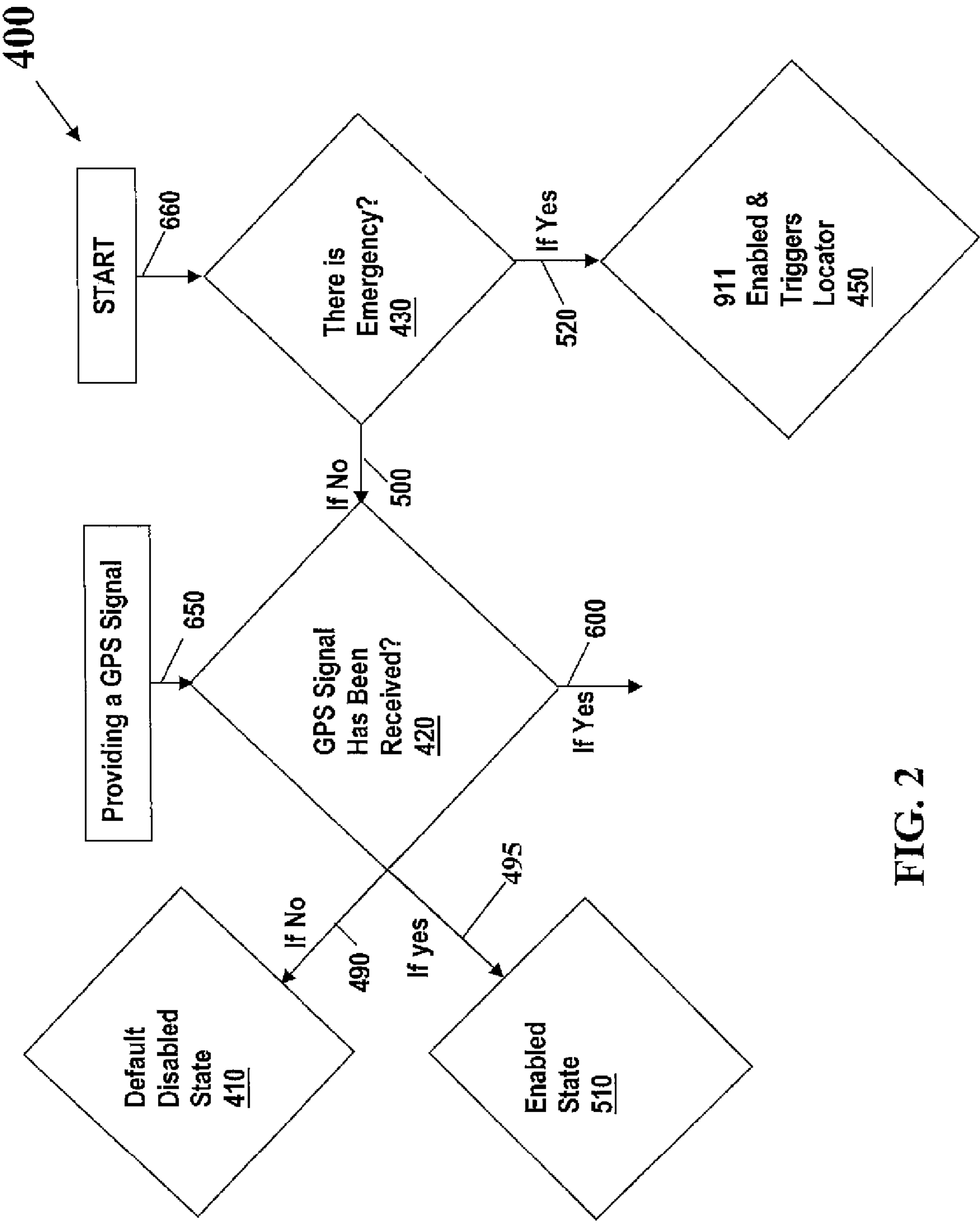
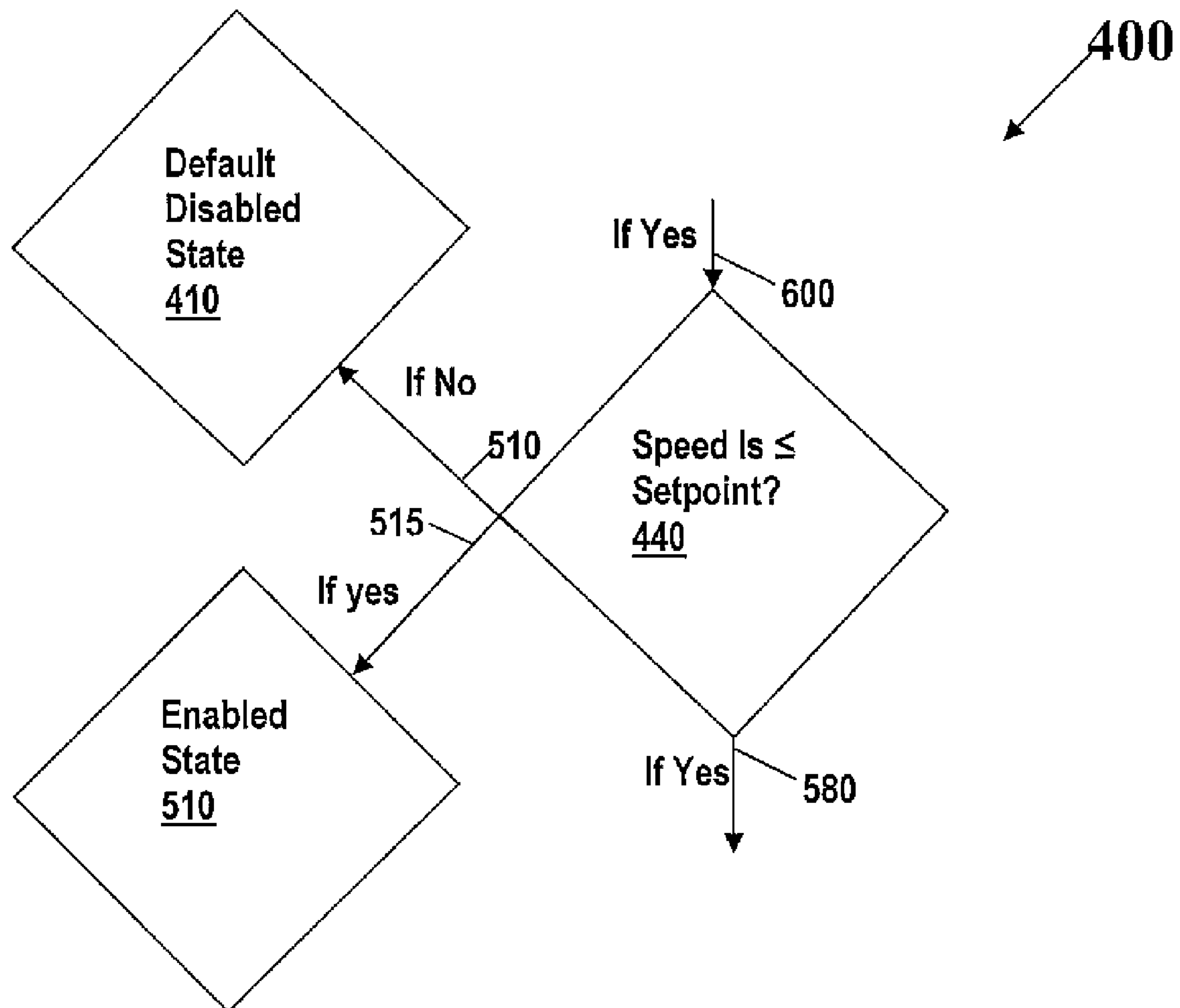


FIG. 2



**FIG. 3**

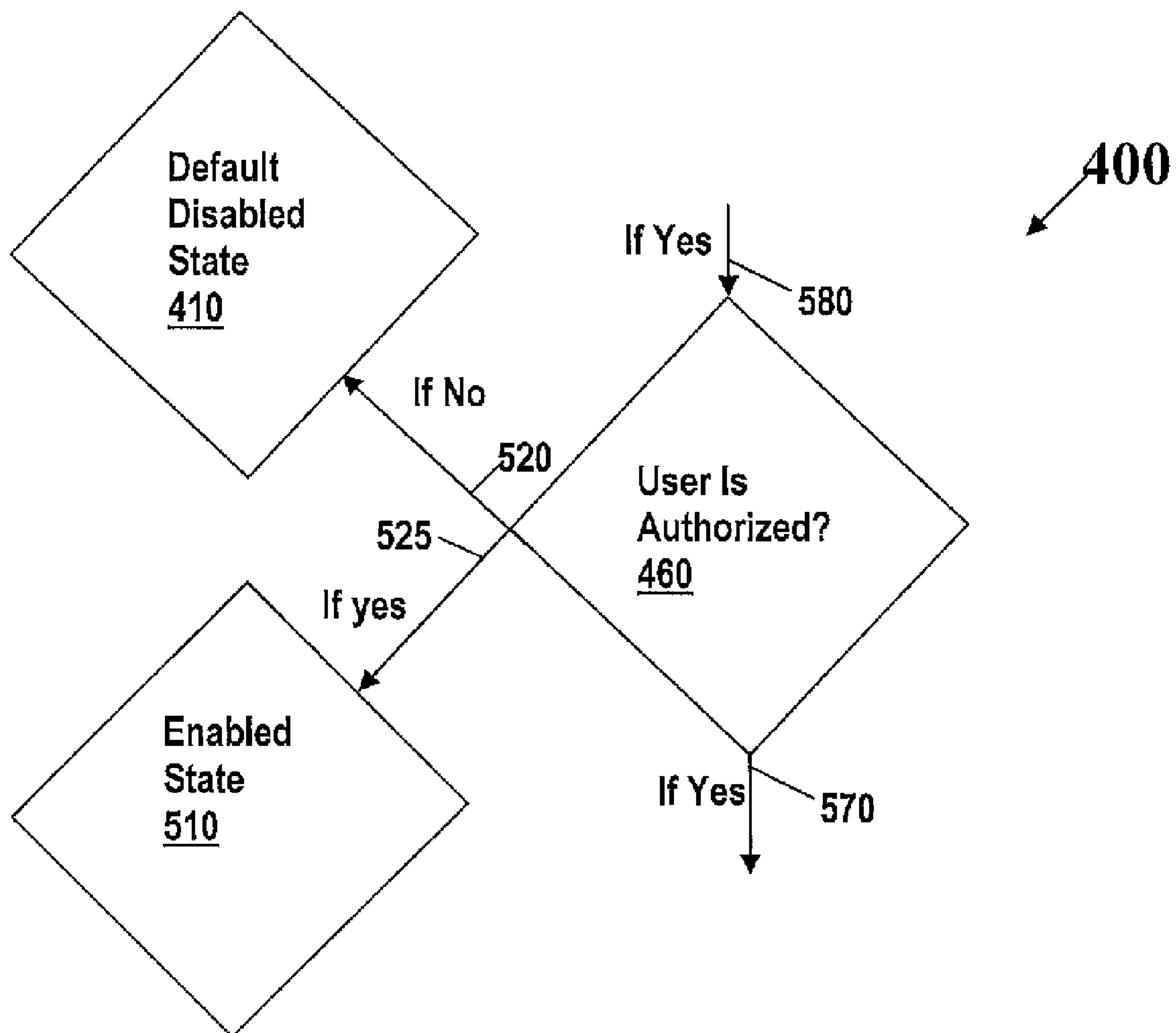


FIG. 4

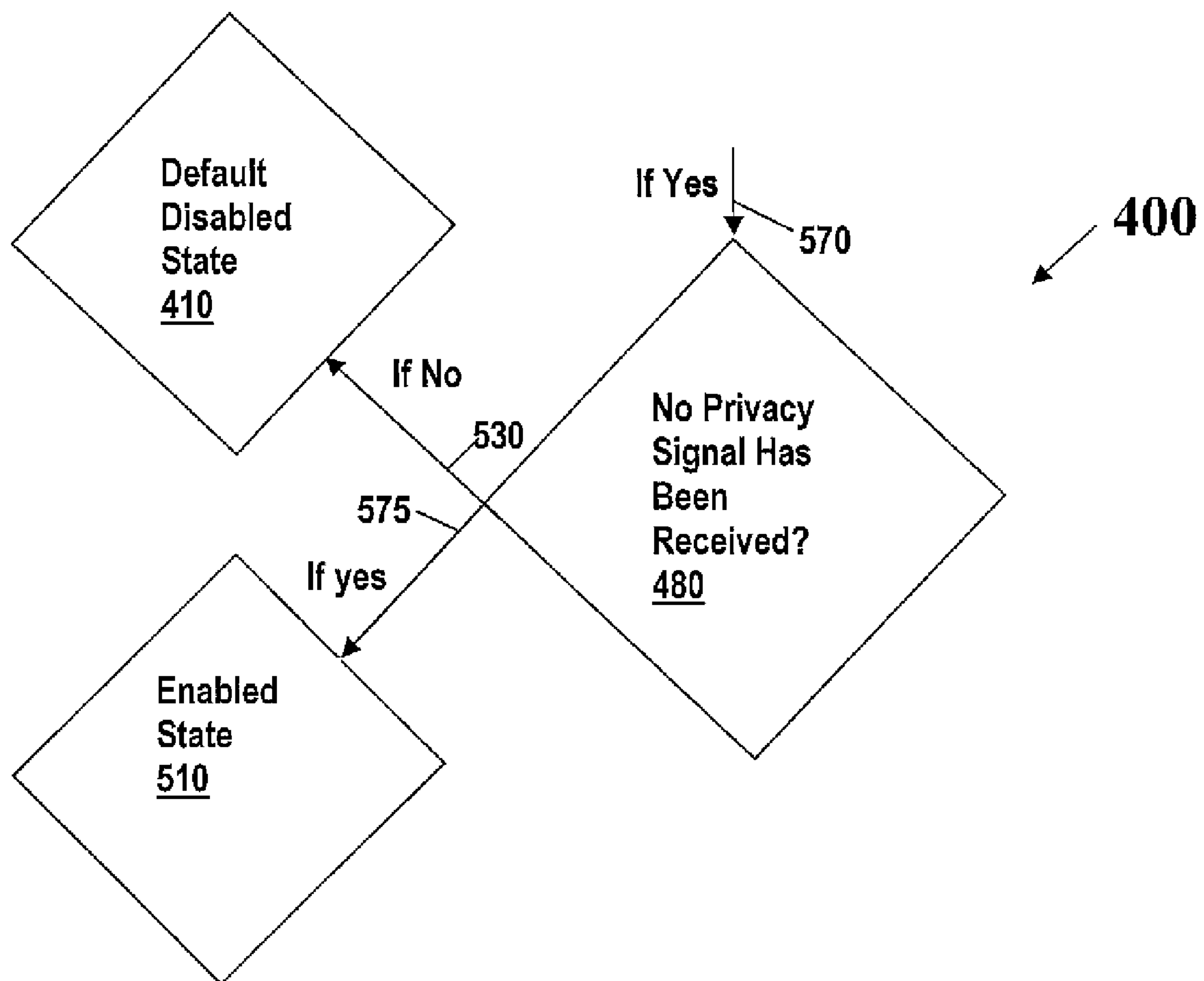


FIG. 5

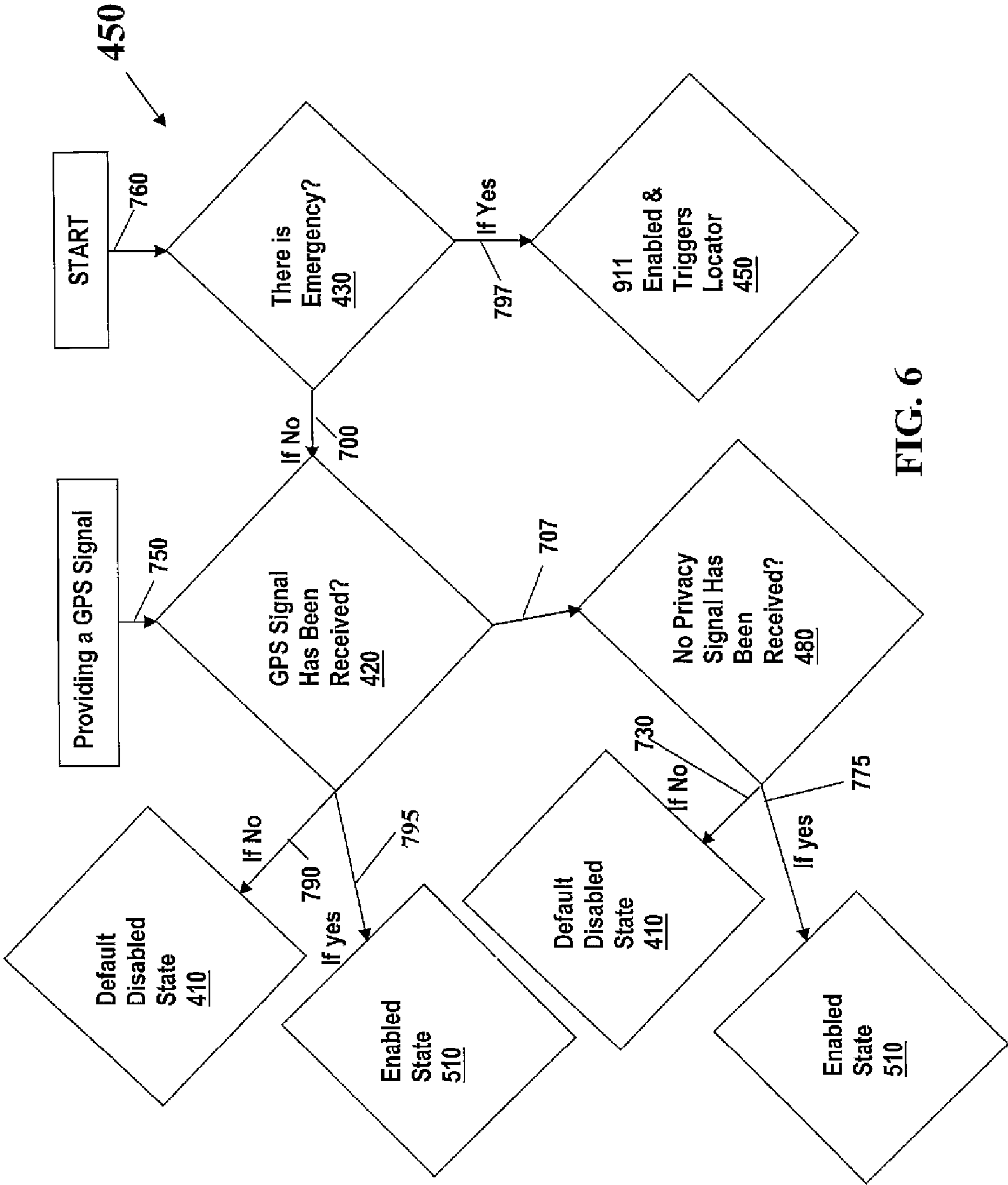


FIG. 6

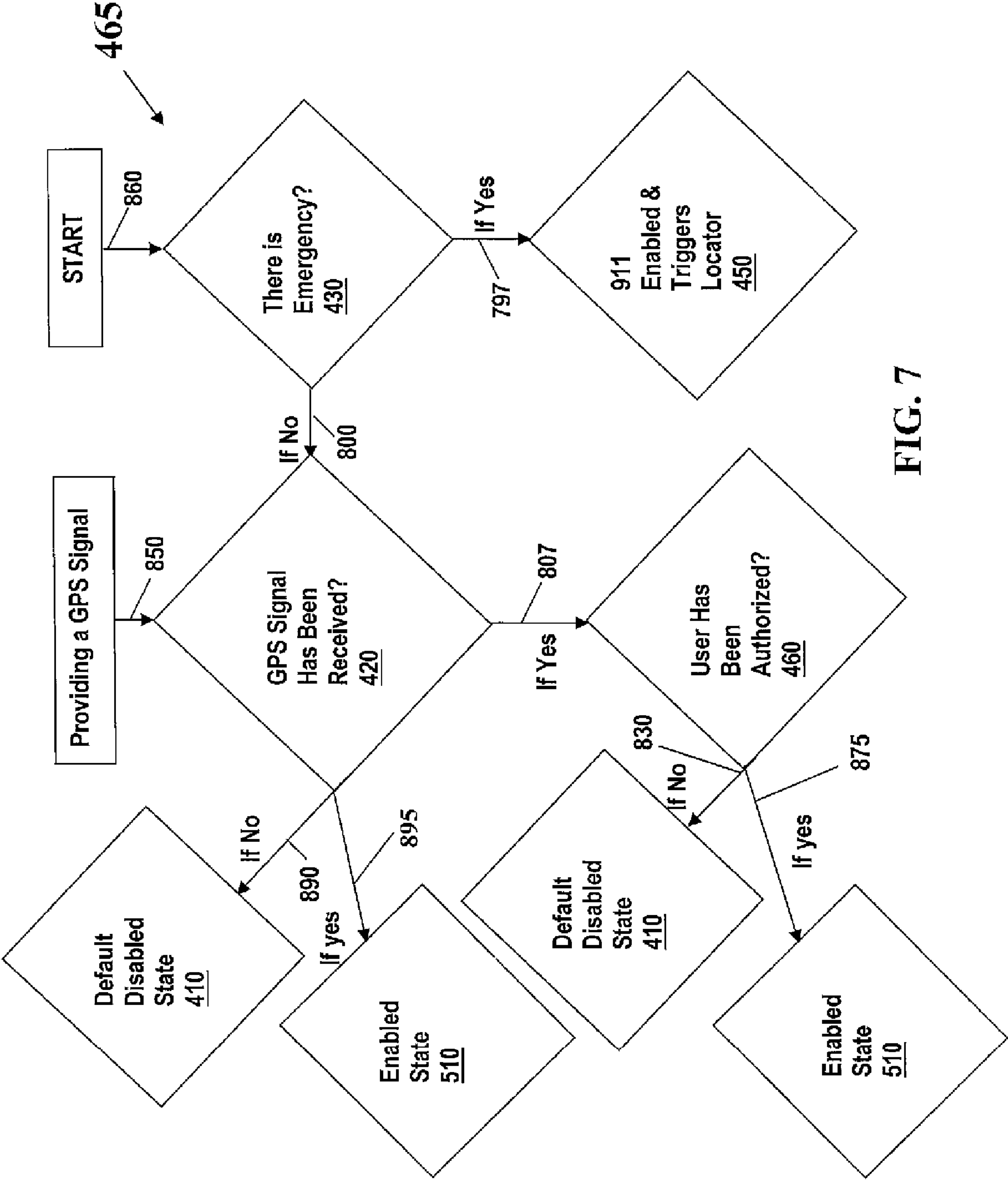


FIG. 7

1

# APPARATUS FOR ENABLING A MOBILE COMMUNICATOR AND METHODS OF USING THE SAME

## FIELD OF THE INVENTION

The present invention relates generally to an apparatus and method for using a mobile communication device, and more specifically to an apparatus and method for controlling the mobile communication device.

## BACKGROUND OF THE INVENTION

Mobile or wireless cell phones or other wireless mobile communication devices such as two way radios have become popular devices for communicating when away from home or the office. Some people rely exclusively on wireless mobile communication devices because they may be carried on their persons, so their mobile communicator may always be accessible. This ubiquitous nature of wireless cell phones may be a disadvantage because cell phones may not be bound by use restrictions that may be placed on wired phones, when conditions arise in which cell phone use may need to be limited.

Therefore there is a need for controlling cell phone use when conditions arise in which cell phone use may need to be limited.

## SUMMARY OF THE INVENTION

A first aspect of the present invention provides a Mobile Communicator, comprising: an Enabling System, wherein the Enabling System includes a Global Positioning System (GPS) Receiver and an Enabling Circuit, wherein a logic of the Enabling Circuit has changed a Default Disabled State of the Mobile Communicator to an Enabled State because an at least one condition has been satisfied.

A second aspect of the present invention provides a kit for enabling a Mobile Communicator, comprising: a Mobile Communicator having an initial Default Disabled State; and an Enabling System, wherein the Enabling System includes a Global Positioning System (GPS) Receiver and an Enabling Circuit, and wherein a logic of the Enabling Circuit has enabled the Mobile Communicator because an at least one condition has been satisfied.

A third aspect of the present invention provides a method for enabling a Mobile Communicator, comprising: providing a Global Positioning System (GPS) and an Enabling System in the Mobile Communicator, wherein the Mobile Communicator is in a Default Disabled State; satisfying an at least one condition for enablement of the Mobile Communicator; and enabling the Mobile Communicator.

## BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 depicts a kit and a Mobile Communicator, in accordance with embodiments of the present invention; and

FIGS. 2-7 depict embodiments of method(s) for using the kit and the Mobile Communicator, in accordance with embodiments of the present invention.

## DESCRIPTION OF THE INVENTION

Mobile cell phones or other mobile communication devices such as two way radios have become popular devices for communicating when away from home or the office. Some people rely exclusively on mobile communication devices because they may be carried on their persons, so they can

2

always be near their mobile communicator. Firstly, this ubiquitous nature of cell phones may be a disadvantage when a user receives or transmits a call from a cell phone within a proximity of other people because it may interfere with their enjoyment of their quiet and solitude. Hereinafter, "proximity of other people" is defined as within a listening distance of the other people.

Secondly, the ubiquitous nature of cell phones may also be disadvantageous for companies that wish to prevent their trade secrets or other proprietary information from being communicated to the outside world via a cell phone, or by a camera accessory of a cell phone, by an employee or other visitor having access to the trade secrets or other proprietary information.

Thirdly, the ubiquitous nature of cell phones may also be disadvantageous because of safety concerns. Many states such as New York State have enacted laws prohibiting an operator of a moving vehicle from holding a mobile communication device while operating the vehicle in order to reduce the number of moving vehicle accidents that may occur as a result of operators of moving vehicles using mobile communication devices during operation of the vehicle.

Therefore, there is a need for providing safeguards to avoid safety hazards or interference with the quiet and solitude of others resulting from use of cell phones or other mobile communication devices.

Many states such as New York State have enacted laws prohibiting an operator of a moving vehicle from holding a mobile communication device while operating the vehicle in order to reduce the number of moving vehicle accidents that may occur as a result of operators of moving vehicles using mobile communication devices during operation of the vehicle.

Therefore there is a need for equipping a Mobile Communicator such as a cell phone so that some or all of its transmitting and audible receiving functions **680** may remain in a Disabled State unless certain conditions for Enabling the transmitting and audible receiving functions **680** are satisfied. Non-limiting examples of the transmitting and audible receiving functions **680** include ringer notification of messages or incoming calls, calling in/out, e.g., making incoming and outgoing calls from the Mobile Communicator **370**, use of photocopying accessories such as a camera, use of micro-computer accessories, such as palm pilots, as user interfaces for text messaging or email, electronic communicators and combinations thereof.

FIG. 1 depicts a kit **205** or a Mobile Communicator **370**, comprising: an Enabling System **360**, wherein the Enabling System **360** includes a "Start Switch" **203** for activating the kit **205** or the Mobile Communicator **370** if an at least one condition is satisfied, and wherein an outgoing call to an Emergency Service Provider **180** may always be enabled by the Enabling System **360**. Alternatively, the kit **205** or the Mobile Communicator **370** may remain in a Default Disabled State **410** if the at least one condition is not satisfied, even if the Start Switch **203** may be activated. The Enabling System **360** may include a keypad **240** for inputting information into the Communicator Controller **350**, such as passwords for user identification by the Communicator Controller **350**, a Location Transmitter **270** for transmitting a location of the kit **205** or the Mobile Communicator **370**, a Locator Beacon **213**, for giving notice, such as an alarm, such as a flashing light or an audible sound, as to a geographical location of the kit **205** or the Mobile Communicator **370**, an Emergency Dialer **260**, for calling an emergency service provider such as the Emergency Service Provider **180**, a Global Positioning System (GPS) Receiver **210**, a Privacy Receiver System **273**, having a pri-

vacy signal antenna **269**, a Voice Recognition System **230**, a Motion Detector **228**, a Microphone **275** and an Enabling Circuit **250**. Although the Microphone **275** may be any device able to convert sound(s) wave(s) into an electrical signal, the Microphone **275** may have the following specifications: 100-10 KHz frequency response; low impedance; normal and zoom settings; an effective output level from about -66 dB+/-3 dB unbalanced (normal); -79 dB+/-3 dB unbalanced (zoom); and a Microphone **275** range to 80 dB.

The Microphone **275** may provide received sound(s) to the Voice Recognition System **230** via the wire **285**, or wirelessly, or to the Privacy Receiver System **273** via the wire **277**, or wirelessly. A Privacy Signal Generator **278** may provide a privacy signal to the Microphone **275** wirelessly by transmitting from the antenna **274**. The Microphone **275** may provide the privacy signal received wirelessly from the antenna **274** to the Privacy Receiver System **273** via a wire **277**, or wirelessly. The Privacy Signal Generator **278** may provide the privacy signal to the Privacy Receiver System **273** wirelessly, wherein the antenna **274** of the Privacy Signal Generator **278** may transmit and the antenna **269** of the Privacy Signal Receiver **273** may receive the privacy signal. Alternatively, the Privacy Signal Generator **278** may provide the privacy signal to the Privacy Receiver **273** via a wire **268**, or wirelessly. The Enabling Circuit **250** may include a logic that enables the Mobile Communicator **370** if at least one of a number of conditions may be satisfied, and wherein outgoing calls to an Emergency Service Provider **180** may always be enabled by the Enabling System **360**. Hereinafter "enabling the Mobile Communicator **370** is defined as making the Mobile Communicator's **370** transmitting and audible receiving functions **680** operational; to activate the Mobile Communicator's **370** transmitting and audible receiving functions **680**. Hereinafter, "logic" is defined as nonarithmetic operations performed by a logic circuit (not shown) in the Enabling Circuit **250** or in a computer (not shown), such as sorting, comparing, and matching, that involve yes-no decisions, wherein the logic may be provided by computer software or the computer circuit that may be located in the Enabling Circuit **250** or in the computer (not shown).

The "Start Switch" **203** may be any appropriate means of opening or closing an electrical circuit in the Communicator Controller **350** via a wire **201**, or wirelessly, such as a contact closure. Hereinafter, a contact closure may be a variety of electrical switches in an electrical circuit that may be open, i.e., having infinite electrical resistance, or closed, i.e., being electrically conducting. The contact closure may be the Start Switch **203** providing a contact closure to the Communicator Controller **350**, via the wire **201**, or wirelessly, and the electrical circuit may include the Communicator Controller **350** and at least one other component of the Enabling System **360**, such as the Enabling Circuit **250**, via the wire **225**, or wirelessly, the Emergency Dialer **260**, via the wire **235**, or wirelessly, or the Location Transmitter **270**, via the wire **255**, or wirelessly. Alternatively, the contact closure may be in the Enabling Circuit **250** providing a contact closure for the Communicator Controller **350**, via the wire **225**, or wirelessly, and the electrical circuit may include the Communicator Controller **350**, the Enabling Circuit **250**, via the wire **225**, or wirelessly, and the Enabling Circuit **250** and at least one other component of the Enabling System **360**, such as the GPS Receiver **210**, via the wires **200**, **243**, **247**, or wirelessly, and the Voice Recognition System **230**, via the wire **223**, or wirelessly, and the Motion Detector **228**, via the wire **229**, or wirelessly, and the Privacy Receiver System **273**, via the wire **241**, or wirelessly. When the contact closure is closed, the electrical circuit that may include the Communicator Con-

troller **350** and the Enabling Circuit **250** may be complete and functional. Alternatively, when the contact closure is open, the electrical circuit that may include the Communicator Controller **350** and the Enabling Circuit **250** is open and non-functional. When the electrical circuit is open and non-functional the transmitting and audible receiving functions **680** of the kit **205** or the Mobile Communicator **370** may remain in the Default Disabled State **410**.

In embodiments of the kit **205** or the Mobile Communicator **370** and of the methods **400**, **450** and **465** described herein, Data Retrieval & Inaudible Receiving Functions **685** may remain enabled if the at least one condition (**420-480**) may not be satisfied. Non-limiting examples of Data Retrieval & Inaudible Receiving Functions **685** include ability to receive incoming calls as messages, vibrator or optical notification of incoming messages, visual page, accessing phone numbers or other stored information, personal schedules, and combinations thereof.

Alternatively, when the electrical circuit is closed and functional the transmitting and audible receiving functions **680** of the kit **205** or the Mobile Communicator **370** may be changed from the Default Disabled State **410** to the Enabled State **510** if an at least one condition (**420-480**) may be satisfied, as in the methods **400**, **450**, and **465** described herein, because the Communicator Controller **350** may drive the Enabled State **510** transmitting and audible receiving functions **680** of the kit **205** or the Mobile Communicator **370** if the Communicator Controller **350** has received a contact closure from either the Start Switch **203** or the Enabling Circuit **250**. The Communicator Controller **350** may drive the transmitting and audible receiving functions **680** via the wire **690**, or wirelessly.

The at least one condition for what conditions must be met so that the kit **205** or the Mobile Communicator **370** may be enabled may be that there is an emergency, wherein calling an Emergency Service Provider **180** and/or triggering a Location Transmitter **270** may be enabled if there has been an emergency. Alternatively, the at least one condition may be that the GPS Receiver **210** receives a GPS Signal, wherein transmitting and audible receiving functions **680** of the Mobile Communicator **370** may be enabled if a GPS signal is received.

Hereinafter, the GPS signal received by the GPS Receiver **210** is defined as any signal that provides geographic location information in the signal as to a longitude and latitude location of the kit **205** or the Mobile Communicator **370** on the Earth. Such signals and information may be obtained from a source such as a GPS satellite, a cell phone provider, or any other provider of the signal having longitude and latitude information about the location of the kit **205** or the Mobile Communicator **370** on the Earth.

Alternatively, the at least one condition may be that the Mobile Communicator **370** has a speed  $\leq$  a setpoint, wherein audible receiving and transmitting functions **680** of the Mobile Communicator **370** may be enabled if the speed of the Mobile Communicator is  $\leq$  the setpoint. Alternatively, the at least one condition may be that a user's voice or password is authenticated, wherein transmitting and audible receiving functions **680** of the Mobile Communicator **370** may be enabled if the user's voice or identifying sound(s) or password are authenticated. The Voice Recognition System **230** may authenticate a user by determining that each sound(s) provided by the user essentially matches a preprogrammed or recorded user identifying sound(s). Alternatively, the at least one condition may be that the Mobile Communicator **370** receives a privacy signal, wherein transmitting and audible receiving functions **680** of the Mobile Communicator **370** may be enabled if the Mobile Communicator **370** receives the

privacy signal. The privacy signal may include signals from broadcast and pager systems, signals from optical/infrared system, signals from acoustic/ultrasonic systems, 2.4 GHz, audible sounds, inaudible sounds and combinations thereof.

The Enabling System **360** of the kit **205** may include a Global Positioning System (GPS) Receiver **210**, a Privacy Signal Receiver **273**, and a Communicator Controller **350**. The GPS Receiver **210** may include a GPS Signal Amplifier **190** for amplifying a GPS signal and a GPS Processor **220**. The GPS Signal Amplifier **190** may include a GPS Antenna **271**. The GPS Signal Amplifier **190** may communicate the amplified GPS signal to the GPS Processor **220** via a wire **200**, or wirelessly. Alternatively, the amplified GPS signal may be transmitted to the GPS Processor **220** by the GPS Signal Amplifier **190** wirelessly using, for example, Wi-Fi protocol. The Privacy Signal Receiver **273** may receive a privacy signal from Microphone **275**, via a communicating wire **277**, or wirelessly. The Privacy Signal Generator **278** may generate the privacy signal wirelessly using, for example, Wi-Fi protocol. The GPS Processor **220** may process the information from the GPS Signal Amplifier **190** to determine a speed and/or a geographic location of the Mobile Communicator **370**. Hereinafter “geographic location” includes a longitude and latitude from which a position on the earth’s surface may be determined. The GPS Processor **220** may provide said speed and geographic location information to the Enabling Circuit **250** via wire **247**, or wirelessly. The Privacy Receiver System **273** may provide a privacy signal to the Enabling Circuit **250** via the wire **243**, or wirelessly. Different types of privacy signals employed may be signals from broadcast and pager systems, optical/infrared system, and acoustic/ultrasonic systems. Alternatively, the privacy signal may operate at 2.4 GHz.

In one embodiment of the Mobile Communicator **370** and the kit **205**, not receiving the privacy signal enables transmitting and audible receiving functions **680** of the Mobile Communicator **370** in a restricted use area. The restricted use area may include a theater, a sports tournament, a hospital, a church, a waiting room, a locker room, a library, a spa, a vehicle, a business area housing trade secrets or confidential information, a conference room in which trade secrets or confidential proprietary information are discussed and combinations thereof. A vehicle may be any transportation vehicle that carries passengers, such as an airplane, an automobile, a coach in a train. However, the restricted use area may be any area in which privacy, quiet or enjoyment of solitude may be desired and in which transmitting and audible receiving functions **680** of the kit **205** of the Mobile Communicator **370** may interfere. The Microphone **275** of the kit **205** or the Mobile Communicator **370** that is used for receiving the Privacy Signal and for voice recognition may be the same Microphone **275** a user may speak into to make outgoing calls and for receiving and transmitting function of the kit **205** and the Mobile Communicator **370**.

The GPS Receiver **210** may use National Marine Electronics Association (NEMA) standards for data communication between marine instruments GPS protocol (as used between a GPS and Autopilot, for example). The GPS Receiver **210** may be designed to provide a low cost alternative to other geographic location devices that require high precision and/or accuracy. The GPS Receiver **210** may have a GPS Signal Amplifier **190** having an active GPS Antenna **271**. The GPS Receiver **210** may have a RS-232 output for connection to a PC or navigation system and may be enclosed in an essentially 100% waterproof, pole mount case. The NMEA RS-232 output may provide an easy connection to a PC to translate and process the GPS Receiver **210** data strings. The GPS **213**

may be accurate: position horizontal,  $\pm 15$  m 2D RMS (SA off), velocity, 0.1 m/sec 95% (SA off), 1 micro-second synchronized to GPS time, WASS,  $\pm 10$  m 2D RMS.

The Enabling System **360** may include a Voice Recognition System **230**, and a Microphone **275**, for inputting an identifiable or distinguishable sound(s). The user identifying sound(s) may be the voice of a user or a user identifying tone or frequency, such as a tone from a tuning fork, a musical note or clip, an animal sound, or any sound by which a user may wish to be identified. The user identifying sound(s) may be inaudible to the human ear such as high frequency or low frequency sounds that are outside of a range of the human ear, such as a dog whistle, having a tone that has been recorded by the Voice Recognition System **230** and may be compared to the identifying sound provided by a user to be authenticated by the Voice Recognition System **230**. Hereinafter, comparing the identifying sound(s) provided by a user to be authenticated by the Voice Recognition System **230** to the recorded user identifying sound(s) is a first step in a process by which the Voice Recognition System **230** may “recognize” or “authenticate” a user of the kit **205** or the Mobile Communicator **370**. A second step in the process may be determining if the identifying sound(s) may match or be essentially identical to the preprogrammed or pre-recorded identifying sound(s). The comparing and matching steps may compare and match features of the identifying sound(s) that include frequency, pitch, volume, and interval between musical notes, syllables of words and the like. The at least one condition to be satisfied for enablement of the transmitting and audible receiving functions **680** of the kit **205** or the Mobile Communicator **370** may be that the comparison of the identifying sound(s) provided by the user to be authenticated is determined by the Voice Recognition System **230** to be essentially identical or essentially matches the preprogrammed or recorded identifying sound(s) in the Voice Recognition System **230**. Hereinafter, user identifying sound(s) include the voice of a user or an identifying tone or frequency, such as a tone from a tuning fork or inaudible sounds such as a dog whistle, having a tone recognizable by the Voice Recognition System **230**. The Microphone **275** may provide the user identifying sound(s) or password to the Voice Recognition System **230** via a wire **285**, or wirelessly, and the Voice Recognition System **230** may provide or signal that the user’s voice has been recognized or authenticated to the Enabling Circuit **250** via a wire **223**, or wirelessly.

The Voice Recognition System **230** may determine that the user authorization condition has been satisfied by authenticating the user identifying sound(s) that the user provides into the Microphone **275**. “Authenticating” or “authentication” is defined as determining the authenticity or identity of the user identifying sound(s) that the user provides into the Microphone **275** by comparing the user identifying sound(s) to authentic or actual user identifying sound(s) that have been recorded or preprogrammed into the Voice Recognition System **230** so that the Voice Recognition System **230** may recognize the user’s voice or sound(s) to identify them, i.e., authenticate them to the Enabling System **360** of the kit **205** or the Mobile Communicator **370**. The at least one condition to be satisfied for enablement of the transmitting and audible receiving functions **680** of the kit **205** or the Mobile Communicator **370** may be that a user’s voice is authenticated. The at least one condition to be satisfied for providing identification of the user to the Emergency Service Provider and triggering a Locator Beacon may be entry of an authenticated password or authenticated voice.

The Enabling Circuit **250** may receive a signal indicating authentication from the Voice Recognition System **230** via

wire **223**, or wirelessly. The Voice Recognition System **230** may receive the user-identifying voice or the frequency of the user-identifying sound(s) from the Microphone **275** through the wire **285**, or wirelessly.

A user placing or originating an outgoing call from the Mobile Communicator **370** may be authenticated by the Voice Recognition System **230**. The Voice Recognition System **230** may authenticate the user by determining that a pattern of frequencies of the sound(s) provided by the user include sounds audible to a human ear or sounds inaudible to a human ear matches or may be essentially identical to a preprogrammed or recorded pattern of the frequencies of the user identifying sound(s) that may be preprogrammed or recorded in the Voice Recognition System **230**.

Once having been authenticated by the Voice Recognition System **273**, a user may enable the transmitting and audible receiving functions **680** of the kit **205** or the Mobile Communicator **370** by speaking or verbalizing a name of a person to be called that has been preprogrammed or recorded in the Enabling System **360**, such as in an address book **483**. Thus, the user may place a call to a telephone number of a person in the address book **483** by speaking or verbalizing the person's name or any other preprogrammed or recorded tag attached to the person's name, such as nicknames. The address book **483** may provide preprogrammed or recorded names for recall from the address book **483** by the authenticated user via a wire **485**, or wirelessly.

Embodiments of the present invention may be used to communicate an identity of a user who places a call for emergency services to the Emergency Services Provider **180**. For example, an authorized user may identify himself to the Emergency Services Provider **180** by providing an authenticated password or authenticated voice to the Enabling System **360** of the kit **205** or the Mobile Communicator **370**. Providing an authenticated password or authenticated voice or authenticated sound(s) to the Enabling System **360** of the kit **205** or the Mobile Communicator **370** may trigger an Emergency Dialer **260** and Locator Beacon **213**. The Microphone **275** of the Mobile Communicator **370** that is used to input the user identifying sound(s) or verbal password for authentication by the Voice Recognition System **230** and to input a privacy signal may be the same Microphone used for making outgoing calls. The inventor has found use of the same Microphone **275** for making outgoing calls and for inputting the user identifying sound(s) or verbal password for authentication by the Voice Recognition System **230**, or for inputting the privacy signal for satisfying the Privacy Receiver System **273**, may render methods of bypassing the Voice Recognition System **230** or the Privacy Receiver System **273** impossible. For example, shielding the Voice Recognition System **273** or the Privacy Receiver System **273** so that it may not receive the user identifying sound(s) or verbal password for authentication by the Voice Recognition System **230**, or the privacy signal for satisfying the Privacy Receiver System **273** would also shield the Microphone **275** from receiving the user's voice message that would interfere or prohibit the Microphone **275** from being used to make outgoing calls.

The Enabling Circuit **250** may provide go/no go logic such that an authenticated voice may activate the Communicator Controller **350**, resulting in enablement of the Mobile Communicator's **370** incoming/outgoing calls and other transmitting and audible receiving functions **680**, including calling the Emergency Service Provider **180**, other emergency numbers such as 911 and/or triggering the Locator Beacon **213**. Alternatively, the Communicator Controller **370** may be acti-

vated by providing a password or Personal Identification Number (PIN) or alphanumeric combination of numbers and letters using the keypad **240**.

Alternatively, the Voice Recognition System **230** may be equipped with a Wi-Fi receiver that may enable the Voice Recognition System **230** to receive the user-identifying voice or the frequency of the user-identifying sound from the microphone **275** via wireless transmission using Wi-Fi protocol and a Wi-Fi transmitter. Hereinafter "Wi-Fi" refers to wireless fidelity and is meant to be used generically when referring of any type of 802.11 network, that 802.11 b, 802.11 a, dual-band, etc. The term is promulgated by the Wi-Fi Alliance.

Any products tested and approved as "Wi-Fi Certified" (a registered trademark) by the Wi-Fi Alliance are certified as interoperable with each other, even if they are from different manufacturers. A user with a "Wi-Fi Certified" product can use any brand of access point with any other brand of client hardware that also is certified. Typically, however, any Wi-Fi product using the same radio frequency (for example, 2.4 GHz for 802.11b or 11 g, 5 GHz for 802.11a) will work with any other, even if not "Wi-Fi Certified."

Formerly, the term "Wi-Fi" was used only in place of the 2.4 GHz 802.11b standard, in the same way that "Ethernet" is used in place of IEEE 802.3. The Alliance expanded the generic use of the term in an attempt to stop confusion about wireless LAN interoperability.

The Enabling Circuit **250** may contain logic that queries that certain conditions have been satisfied so that the Enabling System **360** may enable the Mobile Communicator **370**. The Enabling Circuit **250** may provide a contact closure via a wire **225**, or wirelessly, that completes an electrical circuit between the Enabling Circuit **250** and the Communicator Controller **350**, enabling the Communicator Controller **350** to drive Enabled State **510** transmitting and audible receiving functions **680** of the kit **205** or the Mobile Communicator **370** when an answer to the query as to that the certain condition has been satisfied is "yes." However, the contact closure may not be provided to the Communicator Controller **350** when the answer to the query as to that the certain condition has been satisfied is "no." The Communicator Controller **350** may drive certain Enabled State **510** transmitting and audible receiving functions **680** via a wire **690**, or wirelessly, or inaudible or suppressed receiving and transmitting functions **685** of the Mobile Communicator **370** via a wire **687**, or wirelessly, when the Communicator Controller **350** may receive the contact closure from the Enabling Circuit **250**, i.e., when the certain condition has been satisfied. The Enabled State **510** transmitting and audible receiving functions **680** include ringer notification of messages or incoming calls, calling in/out, e.g., making incoming and outgoing calls from the Mobile Communicator **370**, and combinations thereof. The Enabled State **510** inaudible or suppressed receiving and transmitting functions **685** include a vibrator notification, a camera, a palm pilot, text messaging, message receipt and storage, internet connectivity, silent mode, selective suppression or damping of portions of frequencies of transmissions such as high frequency portion, substitution of video or audio output for suppressed output, and combinations thereof.

The Enabling System **360** may include a Keypad **240**, for inputting information to the Communicator Controller **350** via a wire **245**. Alternatively, the keypad **240** may input information to the Communicator Controller **350** wirelessly.

The kit **205** or the Mobile Communicator **370** may be enabled for hands-free calling when the at least one condition for enablement of the kit **205** or the Mobile Communicator **370** has been satisfied. A purpose of hands-free calling is to

enable use of the kit **205** or the Mobile Communicator **370** when a user's hands are not available to operate the kit **205** or the Mobile Communicator **370**, such as for activating the Start Switch **203**. Hereinafter, "hands-free calling" or "hands-free operation" is defined as allowing a user to retrieve a preprogrammed name and phone number of the person to be called from an address book **483**. A user may enable the transmitting and audible receiving functions **680** of the kit **205** or the Mobile Communicator **370** by speaking or verbalizing the name that has been preprogrammed or recorded in the Enabling System **360**, such as in the address book **483**. Thus, the user may place a call to a telephone number of a person whose name and number may have been stored in the address book **483** by speaking or verbalizing the person's name or any other preprogrammed or recorded tag attached to the person's name, such as nicknames. The address book **483** may provide preprogrammed or recorded names for recall from the address book **483** by the authenticated user via a wire **485**, or wirelessly.

The Communicator Controller **350** may also drive a voice activated Emergency Dialer **260** and/or a Location Transmitter **270**. A user may simply speak or verbalize a predetermined call for assistance, such as a word or phrase, e.g., "help" into the Microphone **275**, or input the word "help" into the Communicator Controller **350** via the keypad **240** to make the Emergency Dialer **260** and/or a Location Transmitter **270** operational. Simply speaking or verbalizing the predetermined call for assistance, such as a word or phrase, e.g., "help" into the Microphone **275**, such that the Communicator Controller **350** may drive the kit **205** or the Mobile Communicator **370** to call the Emergency Service Provider **180** and/or notify the Location Transmitter **270** when the user speaks the predetermined word or phrase into the Microphone **275** or inputs the word or phrase into the Communicator Controller **350** via the keypad **240**.

Causes for such a call to the Emergency Service Provider **180** for help may include calls for any assistance, such as when hiking if the user may be lost and may need directions to find a safe resting place, or to be rescued because of unexpected weather or that there isn't time to return to safety before nightfall. Alternatively the user may be experiencing an emergency, such as a medical emergency or because of a threat against the user's safety.

The Communicator Controller **350** may drive an Emergency Dialer **260** and a Location Transmitter **270** for automatically dialing for example, 911, in the United States, and transmitting a location of the kit **205** or the Mobile Communicator **370** to an Emergency Service Provider **180**. The Emergency Dialer **260** may communicate with the Emergency Service Provider **180** via a wire **270** or wirelessly. The Location Transmitter **270** may communicate with the Emergency Service Provider **180** via a wire **265** or wirelessly. The outgoing call to the Emergency Service Provider **180** may trigger the Location Transmitter **270**. The Location Transmitter **270** may be activated by a cell phone signal provider, such as the Emergency Service Provider **180**, resulting in a Locator Beacon **213** emitting a locator signal. Alternatively, the Enabling System **360** may contain preprogrammed commands and appropriately designated telephone numbers, e.g., "help, 911," or "call home, XXX-XXXX," or "call Emergency Service Provider, 911," or "police, XXX-XXXX," or "emergency, 911," so that the Enabling System **360** may enable all functions of the Mobile Communicator **370** including audible receiving and transmitting functions **680** and data retrieval and inaudible receiving functions **685** for communicating with the designated telephone number holders and trigger the Location Transmitter **270**, so that a user may

override the need to determine whether the conditions **420-480** have been satisfied by applying the yes/no logic of the Enabling Circuit **250** if they utter the command into the Microphone **275**. The command may be a user identifying sound(s) or a verbal password that may be recognized by the Voice Recognition System **273**, or a written command or password inputted into the Communicator Controller **350** via the keypad **240**, and if the command has been determined to be essentially identical to or matches the preprogrammed or recorded command, the Enabling Circuit **250** may activate the Communication Controller **350** to enable the transmitting and audible receiving functions **680** of the Mobile Communicator **370**, including triggering the Emergency Dialer **260** and/or the Location Transmitter **270**. The Location Transmitter **270** may communicate with the Locator Beacon **213** via a wire **276** or wirelessly.

The Communicator Controller **350** may also drive the Emergency Dialer **260** and a Location Transmitter **270** when the user's voice or identifying sound(s) making the outgoing call to the Emergency Service Provider **180** has been authenticated by the Voice Recognition System **230**. The voice recognition system **230** may recognize user identifying sound(s) described herein. Satisfaction of the at least one condition for enabling the Mobile Communicator's **370** audible receiving and transmitting functions **680** may require authentication of a user's voice by voice recognition or sound(s) recognition or password recognition. Entry of a password via a keypad **240** or authentication by the Voice Recognition System **230** may provide identification of the user to the Emergency Service Provider **180** and enabling of the Locator Beacon **213**.

Referring to the Communicator Controller **350** driving the Location Transmitter **270**, it may become necessary for a user to activate the Locator Beacon **213** in order to find the Mobile Communicator **370** if it may be lost or misplaced or obscured from view. Alternatively, when the kit **205** or the Mobile Communicator **370** may be lost or stolen a user may report this to any service provider or to the Emergency Service Provider **180** and a specific signal can be sent to the kit **205** or the Mobile Communicator **370** by the service provider or the Emergency Service Provider **180** which may activate the Location Transmitter **270** to transmit a location provided by the GPS Receiver **210** so the phone may be recovered.

In one embodiment, the user may call in to the Mobile Communicator **370** and instruct the Enabling Circuit **250** of the Enabling System **360** to drive the Communicator Controller **250** to trigger the Location Transmitter **270** and/or the Locator Beacon **213**. The Enabling System may require the user to be voice or sound or password authenticated. If there is an interference from background noise that may interfere with reception from the microphone **275** when voice or sound or password authentication is used to trigger the Location Transmitter **270** and/or the Locator Beacon **213**, the Location Transmitter **270** and/or the Locator Beacon **213** may be triggered by an input from the keypad **240**, such as a password.

Adding the Enabling System **360** to a kit **205** or a Mobile Communicator **370**, such as commercially available cell phones, may be an inexpensive improvement having improved functionality that may be easily implemented. The issue today is not does something need to be done to address the safety and privacy issues inappropriate cell phone use represents, but how to do it. One solution to these the safety and privacy issues is legislation requiring cell phones to be disabled whenever they pose safety or privacy risks. Communication devices disclosed in the prior art may be complicated and expensive so that using them to implement these legislative objectives would be politically impractical due to the hardship it would place on the general population. The low

cost and simplicity of this device in conjunction with its improvements in emergency use and owner protection from unauthorized use or misuses if the Mobile Communicator **370** may be lost or stolen, makes such needed legislation feasible.

The Enabling System **360** of the kit **205** or the Mobile Communicator **370** may be designed so that the Enabling System **360** may enable a default state so that certain functions of the Mobile Communicator **370** may be disabled when use of the Mobile Communicator **370** may be unsafe or an intrusion upon the personal privacy of bystanders. Enabling the default state and its operation requires no generation of radio or other signal transmission that could create health risks or impinge on other types of communication.

The kit **205** or the Mobile Communicator **370** having the Enabling System **360** may be an improvement over cell phones that depend on a disabling signal of some type to be received in order for the phone to be disabled. Such cell phones may be subject to blocking systems or other workarounds being developed which would result in the cell phones remaining functional because they require a disabling signal, and preventing that signal from getting through may leave such cell phones enabled. In contrast, the Enabling System **360** of the kit **205** or the Mobile Communicator **370** may enable the Default Disabled State when certain required conditions, such as receiving a global positioning system (GPS) signal or receiving a privacy signal, may not be satisfied. Therefore, the Enabling System **360** that enables the enabled state of the Mobile Communicator **370** may not be subject to blocking systems or other workarounds being developed, because blocking the GPS signal or privacy signal in the Mobile Communicator **370** enables the Default Disabled State.

At no time does the function of the Enabling System **360** interfere, or create a condition which could interfere with receiving signals. On the contrary, the Enabling System **360** may require that the GPS Receiver **210** receive a GPS signal. In addition, the Enabling System **360** may also require voice, password or sound(s) authentication for enablement of the Mobile Communicator's **370** calling in/out and/or other functions. The Enabling System **360** may disable certain functions deemed inappropriate or unsafe if no GPS signal is received by the GPS processor **220** and the Enabling Circuit **250**. Therefore, the Enabling System **360** that enables the enabled state of the Mobile Communicator **370** may not be subject to blocking systems or other workarounds being developed, such as disablement of the microphone **275**, because blocking the microphone **275** in the Mobile Communicator **370** may enable the Default Disabled State.

At present the loss of communicators that rely on satisfying a security requirement to be disabled may result in the owner being exposed to the risks of unauthorized use delineated above. The Mobile Communicator **370** of the present invention may eliminate that risk without adversely impacting convenience or the ability to make emergency calls immediately.

In emergency situations the Mobile Communicator **370** of the present invention not only provides for less likelihood of operator error due to emergency, but also provides for a way to locate where the emergency call is coming from, since the GPS Receiver **210** may provide a geographic location of the Mobile Communicator **370**. The kit **205** or the Mobile Communicator **370** having the Enabling System **360** may be a major improvement over cell phones that do not have the Enabling System **360** because the kit **205** or the Mobile Communicator **370** having the Enabling System **360** may lower risk of deploying emergency personnel to a wrong location, but it also allows emergency personnel to be immediately

deployed to where help is required even if the person in need of help is only able to initiate the call due to becoming physically incapacitated or endangered. This approach offers significant improvements over cell phones not equipped with the Enabling System **360** of the present invention. Since at no time does the kit **205** or the Mobile Communicator **370** remain in the Default Disabled State **410** due to lack of GPS signal or inaudible sound(s). In emergency situations the kit **205** or the Mobile Communicator **370** can have audible receiving and transmitting functions **680** without concern of a stray signal or occurrence unintentionally disabling it as is possible with cell phones without the Enabling System **360** of the present invention. In an emergency situation, where time is of the essence, not having to try and push buttons will result not only in time savings but eliminate mistakes due to panic.

FIG. **2** depicts embodiments of a method **400** for enabling the Mobile Communicator **370** using the Enabling System **360** to enable the kit **205**, the Mobile Communicator **370** or similar communication device. In a step **650** of the method **400**, notice that a GPS signal has been received by GPS Receiver **210** may be transmitted to the Enabling Circuit **250** via connection wire **247**, or wirelessly, wherein the GPS Processor **220** may have received the GPS signal from the GPS Signal Amplifier **190** via connection wire **200**, or wirelessly. Alternatively, notice that the GPS signal has been received by GPS Signal Amplifier **190**, may be transmitted to the Enabling Circuit **250** by the GPS Signal Amplifier **190** via the wire **243**, or wirelessly. The GPS signal from the GPS Processor **220** may be digital or analog. In the step **650** of the method **400**, said receiving of the GPS signal may be an at least one condition **420** for enabling the kit **205** or the Mobile Communicator **370**, and wherein outgoing calls to an Emergency Service Provider **180** are always enabled by the Enabling System **360**. The Enabling Circuit **250** may enable calls from the kit **205** or the Mobile Communicator **370** to the Emergency Service Provider **180** by providing a contact closure that completes an electrical circuit in the Enabling Circuit **250** that may notify the Communicator Controller **350** that the GPS signal has been received, via a wire **225**, or wirelessly, wherein the Communicator Controller **350** may enable the Emergency Dialer **260** to make the outgoing calls to the Emergency Service Provider **180**.

In a step **660** of the method **400**, a user may activate the Start Switch **203** on the kit **205** or the Mobile Communicator **370** that may enable the call to the Emergency Service Provider **180** and/or the Location Transmitter **270** of the kit **205** or the Mobile Communicator **370**, if an at least one condition, e.g., that there is an emergency, has been satisfied. In the step **660**, a logic of the Enabling Circuit **250** of the Enabling System **360** of the kit **205** or the Mobile Communicator **370** asks "There is an Emergency?" **430**. If the emergency condition **430** has been satisfied, e.g., the user has spoken a word or command such as "help" into the Microphone **275**, or input a message "emergency" via the Keypad **240**, the user may be able to change the state of the kit **205** or the Mobile Communicator **370**, from an initial Default Disabled State **410**, as in step **660** "Start", to a 911 Enabled & Locator Triggered state **450** because such a word or command or input satisfies the at least one condition that there be an emergency, i.e. as in step **590** of the method **400**. Hereinafter, a user calling or speaking a preprogrammed word, e.g., "help", or phrase, e.g., "this is an emergency", or "get help", into the Microphone **275** or inputting the preprogrammed word or phrase into the Communicator Controller **370** via the keypad **240** may signify there is an emergency and satisfies the condition that there be an emergency. In the step **590**, the Enabling Circuit **250** may provide a contact closure that completes an electrical circuit

in which the Enabling Circuit 250 notifies the Communicator Controller 350 via a wire 225, or wirelessly, that there has been an emergency. The Communicator Controller 350 may then trigger the Emergency Dialer 260 to call 911 and the Location Transmitter 270 to trigger the Locator Beacon 213.

In the methods 400, 450, and 465 described infra, the Start Switch 203 may be the contact closure, providing a contact closure to the Communicator Controller 350, via the wire 201, or wirelessly and completing an electrical circuit that may include the Communicator Controller 350 and at least one other component of the Enabling System 360, such as the Enabling Circuit 250, via the wire 225, or wirelessly, the Emergency Dialer 260, via the wire 235, or wirelessly, or the Location Transmitter 270, via the wire 255, or wirelessly. Completing the electrical circuit may enable the Communicator Controller 350 to change the state of the kit 205 or the Mobile Communicator 370 from a Default Disabled State 410 to an Enabled State 510, and to drive the receiving or transmitting functions of the kit 205 or the Mobile Communicator 370 depending that certain conditions 420, 430, 440, 450, 460, and 480 (420-480) may be satisfied. That the conditions 420-480 have been satisfied for the Mobile Communicator 370 may be periodically ascertained by a logic contained in the Enabling Circuit 250 of the Enabling System 360 as “yes, the condition has been satisfied, as in 495, 515, 525, 570, 575, 580, 590, 600, 707, 775, 790, 795, 797, 807, 875, 895, and 897. Alternatively, not satisfying the conditions 420-480 for the Mobile Communicator 370 may be periodically ascertained by a logic contained in the Enabling Circuit 250 of the Enabling System 360 as “no, the condition has not been satisfied, as in 490, 500, 510, 520, 530, 700, 730, 790, 800, 830, and 890. The answers to questions 495, 515, 525, 570, 575, 580, 590, 600, 707, 775, 790, 795, 797, 807, 875, 895, and 897, and 490, 500, 510, 520, 530, 700, 730, 790, 800, 830, and 890 may be provided periodically by the Enabling Circuit 250 via a connection wire 225, or wirelessly, to the Communicator Controller 350. Hereinafter, the process by which the Enabling Circuit 250 arrives at the answers to questions 495, 515, 525, 570, 575, 580, 590, 600, 707, 775, 790, 795, 797, 807, 875, 895, and 897, and 490, 500, 510, 520, 530, 700, 730, 790, 800, 830, and 890 is the Enabling Circuit Logic. An example of the Enabling Circuit Logic is periodically ascertaining that the conditions 420-480 exist for the Mobile Communicator 370, as in embodiments of the methods 400, 450 and 465, infra. Hereinafter periodically means at a prescribed frequency. In embodiments of the methods 400, 450 and 465, infra, if the answer to questions querying the conditions 420-480 are “Yes,” then the state of the Mobile Communicator 370 may become the Enabled State 510, as in steps 495, 515, 525, 570, 575, 580, 590, 600, 707, 775, 790, 795, 797, 807, 875, 895, and 897. Alternatively, if the answers to questions querying the conditions 420-480 are “No,” then the Mobile Communicator 370 may become a Default Disabled State 410, as in steps 490, 500, 510, 520, 530, 700, 730, 790, 800, 830, and 890. Periodic querying that the conditions 420-480 have been satisfied enables the Mobile Communicator 370 to alternate between states 510 and 410, depending on the length of time of the period. In embodiments of the methods 400, 450, and 465 the Enabling Circuit 250 may perform periodic querying that the conditions 420-480 have been satisfied for periods from about a second to about a minute. In the methods 400, 450, and 465, the Enabling Circuit 250 may perform periodic querying that the conditions 420-480 have been satisfied for periods from about 0.01 seconds to about 0.1 minutes. In the methods 400, 450, and 465, the Enabling Circuit 250 may perform periodic querying that the condi-

tions 420-480 have been satisfied for periods from about 0.001 seconds to about 0.01 minutes.

In the method 400, if it may be ascertained, as in step 500 of the method 400, that there is no emergency, changing the kit 205 or the Mobile Communicator 370 from the initial Default Disabled State 410 to the Enabled State 510 may depend on satisfying a condition 420, i.e., “GPS signal has been received?”. Hereinafter, enabling the transmitting and audible receiving functions 680 of the Mobile Communicator 370 is equivalent to changing the Mobile Communicator 370 from a Default Disabled State to an Enabled State. In a step 650, of the method 400, a GPS signal has been received by the GPS Signal Amplifier 190. In the step 650, if the GPS Processor 220 receives the GPS signal from the GPS Signal Amplifier 190, the GPS Receiver 210 may provide the GPS signal or a processed signal to the Enabling Circuit 250. The Enabling Circuit 250 may provide a contact closure that completes an electrical circuit in which the Enabling Circuit 250 notifies the Communicator Controller 350 via a wire 225, or wirelessly, that the GPS signal has been provided to the Enabling Circuit 250. Receiving the GPS signal, as in the step 660 of the method 400, by the GPS Receiver 210 and/or notice that the GPS signal has been received by the Communicator Controller 250 of the Mobile Communicator 370 may be an at least one condition for enabling the kit 205 or the Mobile Communicator 370, wherein outgoing calls from the Emergency Dialer 260 to an Emergency Service Provider 180 are always enabled by the Communication Controller 350. Hereinafter, references in this discussion to Mobile Communicator 370, mobile phone, cell phone, or mobile communication device are intended to refer to the encompassing meaning of a cell phone and/or mobile communication device under certain enabling conditions, wherein the Mobile Communicator 370 may default to the Disabled State 410 unless the at least one aforementioned conditions 420-480 are satisfied, and wherein that outgoing calls from the Emergency Dialer 260 to an Emergency Service Provider 180 and/or from the Location Transmitter 270 are always enabled by the Communication Controller 350.

In the step 495 of the method 400, if the Enabling System 360 of the kit 205 or the Mobile Communicator 370 determines that the condition 420 may be satisfied, i.e., that a GPS signal has been received and/or the Communicator Controller 350 has been notified that the GPS signal has been received by the Enabling Circuit 250, then the Enabling System 360 may enable an Enabled State 510 of the kit 205 or the Mobile Communicator 370, as in the step 495 of the method 400.

Alternatively, in the step 490 of the method 400, if the Enabling Circuit 250 of the kit 205 or the Mobile Communicator 370 determines, conversely, that the condition 420 has not been satisfied, i.e., that no GPS signal has been received by the Enabling Circuit 250, and/or the Communicator Controller 350 has not been notified that the GPS signal has been received by the Enabling Circuit 250, then the Enabling System 360 may enable a Default Disabled State 410 of the Mobile Communicator 370, as in the step 490 of the method 400.

FIG. 3 depicts a continuation of FIG. 2, depicting embodiments of the method 400. If the Enabling System 360 has ascertained, as in the step 500 of the method 400, as depicted in FIG. 2 and described in associated text herein, that there is no emergency, and that a GPS signal has been received, in the step 600, instead of enabling the Mobile Communicator 370, as in the step 495, the Enabling System 360 may require that a condition 440, i.e., that a speed,  $s_{fi}$ , of the Mobile Communicator 370, an average speed,  $s_{avg}$ , of the Mobile Communicator 370, or a normalized speed,  $n_s$ , of the Mobile Commu-

## 15

nicator **370**, may be less than or equal to (" $\leq$ ") a setpoint speed. Hereinafter, "speed of the kit **205** or the Mobile Communicator **370**" refers to each speed selected from the group consisting of the speed,  $s_{fi}$ , of the kit **205** or the Mobile Communicator **370**, an average speed,  $s_{avg}$ , of the kit **205** or the Mobile Communicator **370**, or a normalized speed,  $ns$ , of the kit **205** or the Mobile Communicator **370**.

A motion detector **228**, such as a laser doppler non-contact speed and length gauge (Proton Products, 10 Aylesbury End, Beaconsfield, Bucks. HP9 LW1, England), may determine if the Mobile Communicator **370** may be in motion. Photo radar systems usually operate on the K-band at 24.1 5 GHz. The motion detector **228** may measure a speed of a vehicle in which the kit **205**, or the Mobile Communicator **370** is used, using any appropriate speedometer typically used to determine the speed of a vehicle. The output from the speedometer may be provided to the Motion Detector **228** by the vehicle's speedometer **279** via mechanical, electrical signal, hydraulic or pneumatic means through a conduit or wire **272**, or wirelessly.

IR Pulsed Laser Diode, available from Ingram Technologies, LLC, Rt 2, Box 2169, 6721 West, 4000 South Roosevelt, Utah 84066, to measure speed, distance and direction is the new generation replacement for the older Photo-Radar systems. By using beam width of less than one-degree, an accuracy level is achieved that can not be reached by the older radar systems. As the beam crosses the traffic lanes, it can only target one vehicle at a time and minimize the possibility of false readings. The beam can also be "gated" so that only vehicles within a set of distances will be read. The other feature of IR Pulsed Laser Diode is that a vehicle traveling in only one direction can be captured by the system, if desired.

The speed,  $s_{fi}$ , of the kit **205** or the Mobile Communicator **370** may be determined by the GPS processor **220**, such as a GPSTran (available from 5 Little Balmer, Buckingham Industrial Park, Buckingham MK18 1TF, United Kingdom), designed to provide a digital speed pulse output for use by other equipment. Because satellite GPS is used to measure speed, the GPSTran is suitable for use in many applications where normal speed sensing methods will not work. The update rate of the pulse output is 5 Hz with an accuracy of  $\pm 0.1$  kmh. The pulse per meter setting is configurable to suit most applications.

The GPS Processor **220** may provide an initial  $p_i$  and a final  $p_f$  geographical position of the GPS Processor **220** for an initial time  $t_i$  and a final time  $t_f$  wherein a difference  $(t_f - t_i)$  between the initial and final times  $t_i$ ,  $t_f$  represent a time interval,  $x_{fi}$ , wherein  $x_{fi}$  may be any positive integer. Alternatively, the time interval  $x_{fi}$  may be from about 1 mili second to about  $1 \times 10^3$  mili seconds. Alternatively, the time interval,  $x_{fi}$ , may be from about 1 micro second to about  $1 \times 10^6$  micro seconds. Alternatively, the time interval,  $x_{fi}$ , may be from about 1 nano second to about  $1 \times 10^9$  nano seconds. The time interval,  $x_{fi}$ , may be from about 1 minute to about 5 minutes and a difference between the initial geographical position  $p_i$  of the GPS Processor **220** and the final geographical position  $p_f$  of the GPS Processor **220** may be from about 0.016 miles to about 2.5 miles. The speed,  $s_{fi}$ , of the Mobile Communicator **370** may be represented by formula 1, as follows:

$$s_{fi} = (p_f - p_i) / x_{fi} \quad \text{Formula 1:}$$

The average speed,  $s_{avg}$ , of the Mobile Communicator **370**, for a time interval,  $x_j$ , wherein  $j=1, 2, 3, \dots j$ , may be determined by the GPS processor **220**, wherein the GPS Processor **220** may provide an initial geographical position,  $p_i$ , and a final geographical position,  $p_f$  of the GPS Processor **220** for each time interval,  $x_j$ , and an initial time  $t_i$  and a final

## 16

time  $t_f$  for each time interval,  $x_j$ , wherein a sum of the differences  $\Sigma(t_f - t_i)_j$  for each initial and final time,  $t_i$ ,  $t_f$  for each time interval,  $x_j$ , may be represented as a sum of the time intervals,  $\Sigma x_j$ . A sum of the differences  $\Sigma(p_f - p_i)_k$ , where  $k=1, 2, 3, \dots k$ , between the initial and final geographical positions  $p_i$ ,  $p_f$  may represent a total distance that the kit **205** or the Mobile Communicator **370** may have traveled in each time interval  $x_j$ . The average speed,  $s_{avg}$ , of the Mobile Communicator **370** may be represented by formula 2, as follows:

$$s_{avg} = \Sigma(p_f - p_i)_j / \Sigma x_j \quad \text{Formula 2:}$$

The normalized speed,  $ns$  of the Mobile Communicator **370**, for a time interval,  $x_m$ , where  $m=1, 2, \dots m$ , determined by the GPS processor **220**, wherein the GPS Processor **220** may provide an initial speed  $s_i$  of the Mobile Communicator **370**, and a fraction of time at the initial speed  $s_i$ , and a final speed,  $s_f$  of the Mobile Communicator **370**, and fraction of time at the final speed,  $s_f$ . The time,  $t_{si}$ , may be the time at speed  $s_i$  and the time  $t_{sf}$  may be the time at speed  $s_f$ . Therefore, the fraction of time at the first speed  $s_i$  may be represented as  $t_{si} / (t_{si} + t_{sf})$ . In like manner, the fraction of time at the second speed  $s_f$  may be represented as  $t_{sf} / (t_{si} + t_{sf})$ . The GPS processor **220** may calculate the normalized speed,  $ns$ , of the Mobile Communicator **370** as in the following Formula 3:

$$ns = s_i \times \text{fraction of time at } s_i + s_f \times \text{fraction of time at } s_f \quad \text{Formula 3}$$

A logic of the Enabling Circuit **250** may provide a contact closure that completes an electrical circuit in which the Enabling Circuit **250** notifies the Communicator Controller **350** via a wire **225**, or wirelessly, that the Motion Detector **228** has provided confirmation that the speed of the kit **205** or the Mobile Communicator **370** is  $\leq$  the setpoint speed to the Enabling Circuit **250** via wire **229**, or wirelessly, based on the Motion Detector **228** receiving a speed of the kit **205** or the Mobile Communicator **370** from the speedometer **279** via a wire **272**, or wirelessly. Said completion of the electrical circuit and confirmation that the speed of the kit **205** or the Mobile Communicator **370** is  $\leq$  the setpoint speed to the Enabling Circuit **250** via a wire **223**, or wirelessly, may be the at least one condition for enabling the Enabling System **360** of the kit **205** or the Mobile Communicator **370**, and wherein outgoing calls from the Emergency Dialer **260** to an Emergency Service Provider **180** may always be enabled by the Communication Controller **350**.

In the step **515** of the method **400**, if the Enabling System **360** of the kit **205** or the Mobile Communicator **370** determines that the condition **440** may be satisfied, i.e., that the Mobile Communicator **370** speed may be  $\leq$  the setpoint, then the Enabling System **360** may enable an Enabled State **510** of the Mobile Communicator **370**, as in the step **515** of the method **400**.

Alternatively, in the step **510** of the method **400**, if the Enabling System **360** of the kit **205** or the Mobile Communicator **370** determines, conversely, that the condition **440** may not be satisfied, i.e., that the Mobile Communicator **370** speed not be  $\leq$  the setpoint speed, then the Enabling System **360** may enable a Default Disabled State **410** of the Mobile Communicator **370**, as in the step **510** of the method **400**.

FIG. **4** depicts a continuation of FIG. **3**, depicting embodiments of the method **400**. If the Enabling System **360** has ascertained as in the step **500** of the method **400**, as depicted in FIG. **2** and described in associated text herein, that there is no emergency, and that the GPS signal has been received, in the step **580**, instead of enabling the Mobile Communicator **370**, as in the step **515**, the Enabling System **360** may require that a condition **460**, i.e. that a user of the kit **205** or the Mobile Communicator **370** be authorized. In the step **580**, if the voice

recognition system **230** receives a user identifying sound(s) such as a user's identifying voice or identifying frequency or tone (hereinafter user-identifying sound(s) from the microphone **275**. If the user identifying sound(s) match or have the same frequencies as a preprogrammed voice or preprogrammed frequency, the voice recognition system **230** may provide confirmation of voice recognition to the Enabling Circuit **250**. The preprogrammed user identifying sound(s) may be in a frequency range that may be audible or inaudible to humans. For example, a dog whistle may emit sound(s) that may be inaudible to humans. Humans hear frequencies between about 20 cycles/sec to 20,000 cycles/sec at 130 db (very loud). This shrinks to a range of about 700 cycles/sec to 6000 cycles/sec at 0 db(very faint).

Alternatively, the user identifying sound(s) may be a tone from a tuning fork that naturally resonates at an established frequency or set of frequencies, i.e., sound(s), such as the note C in the key of C major that is equivalent to middle C on a standard piano, may be audible to humans.

A logic of the Enabling Circuit **250** may provide a contact closure that completes an electrical circuit in which the Enabling Circuit **250** notifies the Communicator Controller **350** via a wire **225**, or wirelessly, that the Voice Recognition System **230** has provided confirmation of the voice recognition to the Enabling Circuit **250** via wire **223**, or wirelessly. Said completion of the electrical circuit and confirmation of the voice recognition to the Enabling Circuit **250** via a wire **223**, or wirelessly, may be the at least one condition for enabling the Enabling System **360** of the kit **205** or the Mobile Communicator **370**, and wherein that outgoing calls from the Emergency Dialer **260** to an Emergency Service Provider **180** may always be enabled by the Communication Controller **350**.

In the step **525** of the method **400**, if the Enabling System **360** of the kit **205** or the Mobile Communicator **370** determines that the condition **460** may be satisfied, i.e., that the user has been authorized, then the Enabling System **360** may enable the Enabled State **510** of the Mobile Communicator **370**, as in the step **525** of the method **400**.

Alternatively, in the step **520** of the method **400**, if the Enabling System **360** of the kit **205** or the Mobile Communicator **370** determines, conversely, that the condition **460** may not be satisfied, i.e., that the user has not been authorized, then the Enabling System **360** may enable a Default Disabled State **410** of the Mobile Communicator **370**, as in the step **520** of the method **400**.

FIG. **5** depicts embodiments of a method **400** for enabling the Mobile Communicator **370** using the Enabling System **360** to enable the kit **205**, the Mobile Communicator **370** or similar communication device. If the Enabling System **360** has ascertained as in the step **500** of the method **400**, as depicted in FIG. **2** and described in associated text herein, that there is no emergency and that the GPS signal has been received, in the step **570**, instead of enabling the Mobile Communicator **370**, as in the step **525**, the Enabling System **360** may require that a condition **480**, i.e. "No Privacy Signal Has Been Received", be satisfied, so that the Enabling Circuit **250** may communicate to the Communicator Controller **350** to drive audible receiving and transmitting functions **680**, thereby enabling the Enabled State **510** of the kit **205** or the Mobile Communicator **370**.

In the step **570**, if the Privacy Receiver System **273** receives a privacy signal from the Privacy Signal Generator **271**, the Privacy Receiver System **273** may provide the privacy signal or a processed signal to the Enabling Circuit **250**. In the step **570**, the Enabling System **360** may or may not receive a privacy signal. A logic of the Enabling Circuit **250** may deter-

mine that the condition **480**, i.e., "No Privacy Signal Has Been Received?", has been satisfied, as in step **575** or is not satisfied, as in the step **530**. If the condition **480** has not been satisfied, as in the step **530**, i.e., a privacy signal has been received, e.g., when privacy is desirable or when piracy of trade secrets, for example, is to be discouraged, the Enabling Circuit **250** communicates that the condition **480** has not been satisfied to the Communicator Controller **350**. Alternatively, if the condition **480** has been satisfied, i.e. no privacy signal may have been detected by the Privacy Signal Receive System **273**, as in the step **575**, the Communicator Controller **350** may enable the Enabled State **510** and the phone becomes enabled.

A purpose of defeating or working around the privacy signal condition **480** may be to make an outgoing phone call. Embodiments in which enabling the Enabled State **510** of the kit **205** or the Mobile Communicator **370** may be conditioned on satisfying the condition **480**, i.e. that No Privacy Signal Has Been Received, may be an improvement over cell phones that require a privacy signal for enablement because no privacy signal may be needed to enable the Enabled State **510** of the kit **205** or the Mobile Communicator **370**. Conditioning enablement of the kit **205** or the Mobile Communicator **370** on satisfying the condition **480**, i.e. that No Privacy Signal Has Been Received, may be an improvement over cell phones that require a privacy signal for enablement because a user seeking to block the privacy signal that disables the kit **205** or Mobile Communicator **370** must also block the Microphone **275**, thus defeating the ability to make the outgoing call because both the user's voice and the privacy signal may be received by the Microphone **275** in order for the user to make the outgoing call.

In the enabled Default Disabled State **410**, the receiving or transmitting functions of the kit **205** or the Mobile Communicator **370** may remain disabled, even though the Start Switch **203** has been activated in the step **660** of the method **400**, as depicted in FIG. **2**, and described in associated text, herein. Conditioning disablement of the kit **205** or the Mobile Communicator **370** on receiving the privacy signal through the Microphone **275** instead of through wire **268** or wirelessly from the antenna **274** of the Privacy Signal Generator **278** may avoid the majority of the privacy and piracy (theft of trade secrets or business confidential information) issues because audible receiving and transmitting functions **680** of the kit **205** or the Mobile Communicator **370** may remain in the Default Disabled State **410** unless the Enabling System **360** of the kit **205** or the Mobile Communicator **370** does not receive the privacy signal. Alternatively, privacy and piracy incidents may be avoided during indoor usage of the kit **205** or the Mobile Communicator **370** since the GPS signal also may not be available due to indoor blocking of the line of sight to the source of the GPS signal, such as a GPS satellite. Transmitting and receiving functions of the kit **205** and the Mobile Communicator **370** may remain disabled because the at least one condition for enabling the Enabling System **360** of the kit **205** or the Mobile Communicator **370**, i.e., receiving a GPS signal, has not been satisfied, and wherein that outgoing calls from the Emergency Dialer **260** to an Emergency Service Provider **180** may always be enabled by the Communication Controller **350**. During indoor usage, if a GPS signal has not been received by the GPS Receiver **210**, the Default Disabled State **410** of the kit **205** or the Mobile Communicator **370** may be enabled as in the step **490** of the method **400**. In the unlikely situation a GPS signal is available in a building (GPS typically requires line of sight to work) and the owner/occupants wish to disable phones in this area this can be done by the installation of a wide range of inexpensive and readily

available blocking devices that will allow them to create a no GPS signal area. For example, a Cell-Block-R Control Unit, available from Quiet Cell Technologies Inc., 57 Waterford Drive, Ottawa ON K2E 7V4: CANADA, may act as a kind of decoy cellular tower. Where its use may not be prohibited, the Cell-Block-R Control Unit may remove the kit 205 or the Mobile Communicator 370 from a regular cell phone service provider by supplying a decoy communication signal. Any incoming calls may be referred to voice mail.

In the method 400 for using the kit 205 or the Mobile Communicator 370, a logic of the Enabling Circuit 250 may condition enablement of the Enabled State 510 on the Enabled Circuit 250 not receiving the privacy signal or processed privacy signal from the Privacy Signal Receiver 273 via Microphone 275. Conditioning enabling the Enabled State 510 on the Enabled Circuit 250 on not receiving the privacy signal or processed privacy signal from the Privacy Signal Receiver 273 via the Microphone 275 will also prevent most usage of the Mobile Communicator 370 in ground passenger vehicles or carriers such as cars, trucks, trains, buses and the like, or in airplanes if use of the kit 205 or the Mobile Communicator 370 may interfere with the passengers enjoyment of their quiet and solitude or if trade secrets, confidential or proprietary information may be improperly disclosed because the privacy signal could be provided when it may be improper to use the Mobile Communicator 370 in such vehicles or carriers. When prevention of indoor use of the kit 205 or the Mobile Communicator 370 is desired, and the kit 205 or the Mobile Communicator 370 has received a GPS signal from, for example, the antenna 271 being in the line of sight of the GPS signal from the GPS satellite, a Privacy Signal Generator 278 may provide a privacy signal to the Privacy Receiver System 273 for indoor enablement of the Default Disabled State 410 of the kit 205 or the Mobile Communicator 370, as in the step 530 of the method 400. Any appropriate system for enhancing the GPS signal may be used to provide the GPS signal to the GPS Receiver 210 during indoor or other applications where the GPS antenna 271 may not be in the line of sight of the GPS signal from the GPS Satellite.

In the method 400 for using the kit 205 or the Mobile Communicator 370, a logic of the Enabling Circuit 250 may provide a contact closure that completes an electrical circuit in which the Enabling Circuit 250 notifies the Communicator Controller 350 via a wire 225, or wirelessly, that the Enabling Circuit 250 may not have received the privacy signal or a processed privacy signal from the Privacy Receiver System 273 via the wire 241, or wirelessly. Said completion of the electrical circuit and confirmation of notice to the Communicator Controller 350 by the Enabling Circuit 250 via a wire 225, or wirelessly, may be the at least one condition for enabling the kit 205 or the Mobile Communicator 370, and wherein outgoing calls from the Emergency Dialer 260 to an Emergency Service Provider 180 may always be enabled by the Communication Controller 350.

It has been stated that the Enabling System 360 of the kit 205 or the Mobile Communicator 370 may be an improvement over mobile communicators that may be disabled by receiving a disabling signal because the disabling signal of such devices may be blocked or interfered with or they may fail, leaving the mobile communicator in an Enabled State because that is the default state when the disabling signal is not received. Conversely, the Enabling System 360 may be an improvement because the default state of the Mobile Communicator 370 may be a Default Disabled State 410 because the kit 205 or the Mobile Communicator 370 may be disabled if the GPS Signal Amplifier 190 does not receive a GPS

signal, as in the step 490 of the method 400, as described in FIG. 2 and associated text, supra.

The GPS signal may be any standard GPS signal. GPS satellites transmit two low power radio signals, designated L1 and L2. Civilian GPS uses the L1 frequency of 1575.42 MHz in the UHF band. The signals travel by line of sight, meaning they will pass through clouds, glass and plastic but will not go through most solid objects such as buildings and mountains. In the step 650, the Enabling System 360 may or may not receive a GPS signal. The logic of the Enabling Circuit 250 may determine that the condition 420, i.e., "GPS signal has been received?", is satisfied, as in step 495 or is not satisfied, as in the step 490. If no GPS signal is available (typically indoors or in most vehicles), the Enabling Circuit 250 communicates that the condition 420 is satisfied to the Communicator Controller 350. If the GPS signal is not detected, as in the step 490, the Communicator Controller 350 may enable the Default Disabled State 410 and the Mobile Communicator 370 remains disabled. This embodiment is an improvement over cell phones not having the Enabling System 360 in that if for any reason (intentional or unintentional) the GPS signal is not available in the step 650, the Mobile Communicator 370 stays in its default disabled mode 410.

Conditioning enablement of the Mobile Communicator 370 on receiving the GPS signal, instead of conditioning disablement on receiving a disabling signal, as in cell phones not having the Enabling System 360, may avoid the majority of the privacy and piracy (theft of trade secrets or business confidential information) issues, since privacy and piracy issues arise mostly in indoor usage of the Mobile Communicator 370, where the GPS signal usually is not available. In the unlikely situation a GPS signal is available in a building (GPS typically requires line of sight to work) and the owner/occupants wish to disable phones in this area this can be done by the installation of a wide range of cheap and readily available blocking materials that will allow them to create a privacy area. This feature will also prevent most usage in cars and airplanes where it would be a safety hazard because a GPS signal is most often not available in cars or airplanes. When indoor use of the Mobile Communicator 370 is desired, an antenna 271 may provide a GPS signal to the GPS Signal Amplifier 190 for indoor enablement of the Mobile Communicator 370. Alternatively, the antenna 271 may provide better reception for the GPS Signal Amplifier 190 than an internal antenna with which most GPS Receivers 210 may be equipped.

Referring to FIG. 2, although there are unlimited applications for the Enabling System 360, the inventor of the present invention submits the following three embodiments for employing the method 400 and the Enabling System 360, as depicted in FIG. 1, supra, to enable the states 410, 450, and/or 510 of the Mobile Communicator 370.

In Example 1, if the Enabling System 360 of the kit 205 or the Mobile Communicator 370 determines that the condition 440 may be satisfied, i.e., that the Mobile Communicator 370 speed may be  $\leq$  the setpoint, then transmitting and audible receiving functions 680 of the Mobile Communicator 370 may be enabled, as described in Example 1, as follows.

#### EXAMPLE 1

##### Enabling the Kit 205 or the Mobile Communicator 370 in a Moving Vehicle

Referring to FIG. 2, and associated text, herein, in a step 650 of the method 400 for enabling the kit 205, the Mobile Communicator 370 or similar communication device, notice

## 21

that a GPS signal has been received by GPS Receiver **210** may be transmitted to the Enabling Circuit **250** via connection wire **247**, or wirelessly, wherein the GPS Processor **220** may have received the GPS signal from the GPS Signal Amplifier **190** via connection wire **200**, or wirelessly. Alternatively, notice that a GPS signal has been received by GPS Signal Amplifier **190** may be transmitted by the GPS Signal Amplifier **190** to the Enabling Circuit **250** via connection wire **243**, or wirelessly. The GPS signal from the GPS Processor **220** may be digital or analog. In the step **650** of the method **400**, said receiving of the GPS signal may be an at least one condition **420** for enabling the kit **205** or the Mobile Communicator **370**, and wherein outgoing calls to an Emergency Service Provider **180** may always be enabled by the Enabling System **360**. The Enabling Circuit **250** may enable calls from the kit **205** or the Mobile Communicator **370** to the Emergency Service Provider **180** by providing a contact closure that completes an electrical circuit in which the Enabling Circuit **250** notifies the Communicator Controller **350** that the GPS signal has been received, via a wire **225**, or wirelessly, wherein the Communicator Controller **350** may enable the Emergency Dialer **260** to make the outgoing calls to the Emergency Service Provider **180**.

In a step **660** of the method **400**, a user may activate the “Start Switch” **203** on the kit **205** or the Mobile Communicator **370** that may enable the call to the Emergency Service Provider **180** and/or the Location Transmitter **270** of the kit **205** or the Mobile Communicator **370**, if an at least one condition, e.g., that there is an emergency, has been satisfied. In the step **660**, a logic of the Enabling Circuit **250** of the Enabling System **360** of the kit **205** or the Mobile Communicator **370** asks “There Is an Emergency?” **430**. If the emergency condition **430** has been satisfied, e.g., the user has spoken a word or command such as “help” into the Microphone **275**, or input a message “emergency” via the Keypad **240**, the user may be able to change the state of the kit **205** or the Mobile Communicator **370**, from an initial Default Disabled State **410**, as in step **660** “Start”, to a 911 Enabled & Locator Triggered state **450** because such a word or command or input satisfies the at least one condition that there be an emergency, i.e. as in step **590** of the method **400**. In the step **590**, the Enabling Circuit **250** may provide a contact closure that completes an electrical circuit in which the Enabling Circuit **250** notifies the Communicator Controller **350** via a wire **225**, or wirelessly that may trigger the Emergency Dialer **260** to call 911 and the Location Transmitter **270** to trigger the Locator Beacon **213**.

Referring to FIG. 3 and described in associated text herein, if the Enabling System **360** has ascertained as in the step **500** of the method **400**, as depicted in FIG. 2 and described in associated text herein, that there is no emergency, and that a GPS signal has been received, in the step **600**, instead of enabling the Mobile Communicator **370**, as in the step **495**, the Enabling System **360** may enable audible receiving and transmitting functions **680** of the kit **205** or the Mobile Communicator **370** if a condition **440**, i.e., that a speed,  $s_{f,i}$ , of the Mobile Communicator **370**, an average speed,  $s_{avg}$ , of the Mobile Communicator **370**, or a normalized speed,  $n_s$ , of the Mobile Communicator **370**, may be less than or equal to (“ $\leq$ ”) a setpoint speed, wherein the setpoint may be a maximum speed such as any speed from about 0 to about 10 mph. Alternatively, the setpoint may be from about 0 to about 30 mph. It has been found that only enabling Mobile Communicator **370**, e.g., cell phone, use in moving vehicles when the vehicles are moving at a speed  $\leq$  the setpoint may be a major public safety need that may be advanced by use of the kit **205**

## 22

or the Mobile Communicator **370** and the Enabling System **360**, in accordance with the method **400**.

Transmitting and audible receiving functions **680** of the Kit **205** or the Mobile Communicator **370** may be enabled when the condition **480**, i.e., that no privacy signal has been received by the Privacy Receiver System **273** has been satisfied, as described in Example 2, as follows. In Example 2

## EXAMPLE 2

### Enabling the Kit **205** or the Mobile Communicator **370** When Privacy or Security May be an Issue

When Privacy or Security May be an Issue a method **450** for enabling the Mobile Communicator **370** using the Enabling System **360** to enable the kit **205**, the Mobile Communicator **370** or similar communication device. In a step **750** of the method **450** for enabling the kit **205**, the Mobile Communicator **370** or similar communication device, notice that a GPS signal has been received by GPS Receiver **210** may be transmitted to the Enabling Circuit **250** via connection wire **247**, or wirelessly, wherein the GPS Processor **220** may have received the GPS signal from the GPS Signal Amplifier **190** via connection wire **200**, or wirelessly. Alternatively, notice that the GPS signal has been received by GPS Signal Amplifier **190**, may be transmitted to the Enabling Circuit **250** by the GPS Signal Amplifier **190** via the wire **243**, or wirelessly. The GPS signal from the GPS Processor **220** may be digital or analog. In the step **750** of the method **450**, said receiving of the GPS signal may be an at least one condition **420** for enabling the kit **205** or the Mobile Communicator **370**, and wherein outgoing calls to an Emergency Service Provider **180** may always be enabled by the Enabling System **360**.

The Enabling Circuit **250** may enable calls from the kit **205** or the Mobile Communicator **370** to the Emergency Service Provider **180** by providing a contact closure that completes an electrical circuit in which the Enabling Circuit **250** notifies the Communicator Controller **350** that the GPS signal has been received, via a wire **225**, or wirelessly, wherein the Communicator Controller **350** may enable the Emergency Dialer **260** to make the outgoing calls to the Emergency Service Provider **180**.

In a step **760** of the method **450**, a user may activate the “Start Switch” **203** on the kit **205** or the Mobile Communicator **370** that may enable the transmitting and receiving functions of the kit **205** or the Mobile Communicator **370**, if an at least one condition, e.g., that there is an emergency, has been satisfied. In the step **760**, a logic of the Enabling Circuit **250** of the Enabling System **360** of the kit **205** or the Mobile Communicator **370** asks “There is an Emergency?” **430**. In the step **797**, if the emergency condition **430** has been satisfied, e.g., the user has spoken a word or command such as “help” into the Microphone **275**, or input a message “emergency” via the Keypad **240**, the user may be able to change the state of the kit **205** or the Mobile Communicator **370**, from an initial Default Disabled State **410**, as in step **760** “Start”, to a 911 Enabled & Locator Triggered state **450** because such a word or command or input satisfies the at least one condition that there be an emergency, i.e. as in step **790** of the method **450**. In the step **797**, the Enabling Circuit **250** may provide a contact closure that completes an electrical circuit in which the Enabling Circuit **250** notifies the Communicator Controller **350**, via a wire **225**, or wirelessly, that may trigger the Emergency Dialer **260** to call 911 and the Location Transmitter **270** to trigger the Locator Beacon **213**.

Alternatively, if there is no emergency, as in the step **700** of the method **450**, the audible receiving and transmitting func-

23

tions 680 of the kit 205 or the Mobile Communicator 370 may be enabled, as in the step 795, if the Enabling System 360 of the kit 205 or the Mobile Communicator 370 determines that the condition 420 may be satisfied, i.e., that a GPS signal has been received. In the step 795, the Enabling Circuit 250 notifies the Communicator Controller 350 that the GPS signal has been received from the GPS Receiver 210. The Enabling Circuit 250 may provide a contact closure that completes an electrical circuit in which the Enabling Circuit 250 notifies the Communicator Controller 350, via a wire 225, or wirelessly, that the GPS signal has been provided to the Enabling Circuit 250. In the step 795, the Enabling System 360 may enable the audible receiving and transmitting functions 680 of the kit 205 or the Mobile Communicator 370 by changing the state of the kit 205 or the Mobile Communicator 370 from the Default Disabled State 410 to the Enabled State 510.

Alternatively, in the step 790 of the method 450, the Enabling Circuit 250 of the kit 205 or the Mobile Communicator 370 has determined, conversely, that the condition 420 has not been satisfied, i.e., that no GPS signal has been received by the Enabling Circuit 250. In the step 790, the state of the kit 205 or the Mobile Communicator 370 remains in the Default Disabled State 410 so audible receiving and transmitting functions 680 of the kit 205 or the Mobile Communicator 370 may not be enabled.

In the steps 795 and 790, a logic of the Enabling Circuit 250 may determine that the condition 420, i.e., "GPS signal has been received?", has been satisfied, as in step 795 or is not satisfied, as in the step 790. In the step 790, if no GPS signal has been received, e.g., when the GPS signal is not in line of sight of the GPS Signal Amplifier 190, e.g., when the GPS Signal Amplifier 190 may be indoors in a building, automobile, or airplane, the Enabling Circuit 250 communicates that the condition 420 has not been satisfied to the Communicator Controller 350. If no GPS signal may be detected, as in the step 790, the Communicator Controller 350 may enable the Default Disabled State 410 and the Mobile Communicator 370, e.g., the cell phone, remains disabled.

Referring to FIG. 6, if the Enabling System 360 has ascertained as in the step 700 of the method 450, that there is no emergency, and that the GPS signal has been received, in the step 707, instead of enabling the Mobile Communicator 370, as in the step 795, the Enabling System 360 may require that a condition 480, i.e. that the Privacy Receiver System 273 of the kit 205 or the Mobile Communicator 370 has not received a privacy signal.

In the step 707 of the method 450, the Enabling System 360 may or may not receive a privacy signal. In the step 707, if the Privacy Receiver System 273 receives a privacy signal from the Privacy Signal Generator 271, the Privacy Receiver System 273 may provide the privacy signal or a processed signal to the Enabling Circuit 250. A logic of the Enabling Circuit 250 may determine that the condition 480, i.e., "No Privacy Signal Has Been Received?", has not been satisfied, as in step 730 of the method 450. If a privacy signal has been received, e.g., when privacy is desirable or when piracy of trade secrets, for example, is to be discouraged, the Enabling Circuit 250 communicates that the condition 480 has not been satisfied to the Communicator Controller 350.

Alternatively, if no privacy signal may be detected, as in the step 775 of the method 450, the Communicator Controller 350 may enable the Enabled State 510 and the audible receiving and transmitting functions 680 of the Mobile Communicator 370, e.g., a cell phone, may be enabled. Examples of areas where kit 205 or the Mobile Communicator 370 use may be appropriate, safe, or not a security risk include airplanes before takeoff, non-private places outside doctor's

24

offices, outside locker rooms, outside sensitive corporate or private public buildings, outside theatres, and the like. Examples of areas where kit 205 or Mobile Communicator 370 use may be appropriate, safe, or not a security risk include any public or private place that for privacy or safety reasons needs to have kit 205 or Mobile Communicator 370, e.g., cell phone, usage controlled.

Alternatively, if a privacy signal has been not been received, e.g., when privacy is not needed or when use of the kit 205 or the Mobile Communicator 370, for example, may be encouraged, the Enabling Circuit 250 communicates that the condition 480 has been satisfied to the Communicator Controller 350. If the privacy signal may not be detected, as in the step 775, the Communicator Controller 350 may enable the Enabled State 510 and the audible receiving and transmitting functions 680 of the Mobile Communicator 370, e.g., the cell phone, may be enabled.

Transmitting and audible receiving functions 680 of the Kit 205 or the Mobile Communicator 370 may be enabled when the condition 460, i.e., that the user has been confirmed by the Voice Recognition System 230 has been satisfied, as described in Example 3, as follows.

### EXAMPLE 3

#### Enabling the Kit 205 or the Mobile Communicator 370 when User Authorization May be an Issue

FIG. 7 depicts embodiments of a method 465 for enabling the Mobile Communicator 370 using the Enabling System 360 to enable the kit 205, the Mobile Communicator 370 or similar communication device. In a step 850 of the method 465 for enabling the kit 205, the Mobile Communicator 370 or similar communication device, notice that a GPS signal has been received by GPS Receiver 210 may be transmitted to the Enabling Circuit 250 via connection wire 247, or wirelessly, wherein the GPS Processor 220 may have received the GPS signal from the GPS Signal Amplifier 190 via connection wire 200, or wirelessly. Alternatively, notice that the GPS signal has been received by GPS Signal Amplifier 190, may be transmitted to the Enabling Circuit 250 by the GPS Signal Amplifier 190 via the wire 243, or wirelessly. The GPS signal from the GPS Processor 220 may be digital or analog. In the step 850 of the method 465, said receiving of the GPS signal may be an at least one condition 420 for enabling the kit 205 or the Mobile Communicator 370, and wherein outgoing calls to an Emergency Service Provider 180 may always be enabled by the Enabling System 360.

The Enabling Circuit 250 may enable calls from the kit 205 or the Mobile Communicator 370 to the Emergency Service Provider 180 by providing a contact closure that completes an electrical circuit in which the Enabling Circuit 250 notifies the Communicator Controller 350 that the GPS signal has been received, via a wire 225, or wirelessly, wherein the Communicator Controller 350 may enable the Emergency Dialer 260 to make the outgoing calls to the Emergency Service Provider 180.

In a step 860 of the method 465, a user may activate the "Start Switch" 203 on the kit 205 or the Mobile Communicator 370 that may enable the transmitting and receiving functions of the kit 205 or the Mobile Communicator 370, if an at least one condition, e.g., that there is an emergency, has been satisfied. In the step 860, a logic of the Enabling Circuit 250 of the Enabling System 360 of the kit 205 or the Mobile Communicator 370 asks "Is There an Emergency" 430. If the emergency condition 430 has been satisfied, e.g., the user has spoken a word or command such as "help" into the Micro-

25

phone 275, or input a message “emergency” via the Keypad 240, the user may be able to change the state of the kit 205 or the Mobile Communicator 370, from an initial Default Disabled State 410, as in step 860 “Start”, to a 911 Enabled & Locator Triggered state 450 because such a word or command or input satisfies the at least one condition that there be an emergency, i.e. as in step 797 of the method 465. In the step 797, the Enabling Circuit 250 may provide a contact closure that completes an electrical circuit in which the Enabling Circuit 250 notifies the Communicator Controller 350, via a wire 225, or wirelessly, that may trigger the Emergency Dialer 260 to call 911 and the Location Transmitter 270 to trigger the Locator Beacon 213.

Alternatively, if there is no emergency, as in the step 800 of the method 465, the audible receiving and transmitting functions 680 of the kit 205 or the Mobile Communicator 370 may be enabled, as in the step 895, if the Enabling System 360 of the kit 205 or the Mobile Communicator 370 determines that the condition 420 may be satisfied, i.e., that a GPS signal has been received. In the step 895, the Enabling Circuit 250 notifies the Communicator Controller 350 that the GPS signal has been received from the GPS Receiver 210. The Enabling Circuit 250 may provide a contact closure that completes an electrical circuit in which the Enabling Circuit 250 notifies the Communicator Controller 350, via a wire 225, or wirelessly, that the GPS signal has been provided to the Enabling Circuit 250. In the step 895, the Enabling System 360 may enable the audible receiving and transmitting functions 680 of the kit 205 or the Mobile Communicator 370 by changing the state of the kit 205 or the Mobile Communicator 370 from the Default Disabled State 410 to the Enabled State 510.

Alternatively, in the step 890 of the method 465, the Enabling Circuit 250 of the kit 205 or the Mobile Communicator 370 has determined, conversely, that the condition 420 has not been satisfied, i.e., that no GPS signal has been received by the Enabling Circuit 250. In the step 890, the state of the kit 205 or the Mobile Communicator 370 remains in the Default Disabled State 410 so audible receiving and transmitting functions 680 of the kit 205 or the Mobile Communicator 370 may not be enabled.

In the steps 895 and 890, a logic of the Enabling Circuit 250 may determine that the condition 420, i.e., “GPS signal has been received?”, has been satisfied, as in step 895 or is not satisfied, as in the step 890. In the step 890, if no GPS signal has been received, e.g., when the GPS signal is not in line of sight of the GPS Signal Amplifier 190, e.g., when the GPS Signal Amplifier 190 may be indoors in a building, automobile, or airplane, the Enabling Circuit 250 communicates that the condition 420 has not been satisfied to the Communicator Controller 350. If no GPS signal may be detected, as in the step 890, the Communicator Controller 350 may enable the Default Disabled State 410 and the Mobile Communicator 370, e.g., the cell phone, remains disabled.

Referring to FIG. 7, if the Enabling System 360 has ascertained as in the step 800 of the method 465, that there is no emergency, and that the GPS signal has been received, in the step 807, instead of enabling the Mobile Communicator 370, as in the step 895, the Enabling System 360 may require that a condition 460, i.e. that a user of the kit 205 or the Mobile Communicator 370 be authorized or authenticated. In the step 807, if the voice recognition system 230 receives a user’s identifying voice or identifying frequency or tone (hereinafter user-identifying sound(s)) from the microphone 275, that matches a preprogrammed voice or preprogrammed frequency that has been preprogrammed into the Enabling System 360, the voice recognition system 230 may provide confirmation of voice recognition to the Enabling Circuit 250.

26

Hereinafter, “authorizing a user” or “authenticating a user” describes a designed property or function of the Voice Recognition System’s 230 to determine (ascertain) that a user’s identifying voice or identifying frequency or tone (hereinafter user-identifying sound(s)) from the microphone 275), matches the preprogrammed voice or preprogrammed frequency or sound(s) or passwords that have been preprogrammed into the Enabling System 360. The preprogrammed sound(s) may be in a frequency range that may be audible or inaudible to humans. For example, a dog whistle may emit sound(s) that may be inaudible to humans. Humans hear frequencies between about 20 cycles/sec to 20,000 cycles/sec at 130 db (very loud). This shrinks to a range of about 700 cycles/sec to 6000 cycles/sec at 0 db(very faint).

Alternatively, a tone from a tuning fork that naturally resonates at an established frequency or set of frequencies, i.e., sound(s), such as the note C in the key of C major that is equivalent to middle C on a standard piano, may be audible to humans.

In the step 807, a logic of the Enabling Circuit 250 may provide a contact closure that completes an electrical circuit in which the Enabling Circuit 250 notifies the Communicator Controller 350, via a wire 225, or wirelessly, that the Voice Recognition System 230 has provided confirmation of the voice recognition to the Enabling Circuit 250 via wire 223, or wirelessly. Said completion of the electrical circuit and confirmation of the voice recognition to the Enabling Circuit 250 via a wire 223, or wirelessly, may be the at least one condition for enabling the Enabling System 360 of the kit 205 or the Mobile Communicator 370, and wherein that outgoing calls from the Emergency Dialer 260 to an Emergency Service Provider 180 may always be enabled by the Communication Controller 350. In the step 807, the Enabling System 360 may or may not receive a privacy signal. The logic of the Enabling Circuit 250 may determine that the condition 460, i.e. that a user of the kit 205 or the Mobile Communicator 370 be authorized, has been satisfied, as in step 875 or is not satisfied, as in the step 830. If no confirmation from the Voice Recognition System 230 has been received by the Enabling Circuit 250, e.g., when the user is not authorized, such as when the user is using the kit 205 or the Mobile Communicator 370 without permission or when the user’s voice, sound(s) or password may not be authenticated, the Enabling Circuit 250 communicates that the condition 460 has not been satisfied to the Communicator Controller 350. If no confirmation from the Voice Recognition System 230 may be received by the Enabling Circuit 250, as in the step 830, the Communicator Controller 350 may enable the Default Disabled State 410 and the Mobile Communicator 370, e.g., the cell phone, remains disabled.

Alternatively, if confirmation from the Voice Recognition System 360 has been received, e.g., when audible receiving and transmitting functions 680 of the kit 205 or the Mobile Communicator 370, for example, may be authorized, the Enabling Circuit 250 communicates that the condition 480 has been satisfied to the Communicator Controller 350. If the confirmation from the Voice Recognition System 360 has been received, as in the step 875, the Communicator Controller 350 may enable the Enabled State 510 and the audible receiving and transmitting functions 680 of the Mobile Communicator 370, e.g., the cell phone, may be enabled.

In the method 465, in the step 875, outgoing call to the Emergency Service Provider may be authenticated by the Voice Recognition System 230. In the method 465, in the step 875, the Voice Recognition System 230 may recognize each sound selected from the group of sounds consisting of sounds audible to a human ear and sounds inaudible to a human ear.

In the method **465**, in the step **875**, entry of a password or authentication by voice recognition may provide identification of the user to the Emergency Service Provider and triggering the Locator Beacon.

Unauthorized use of the kit **205** or the Mobile Communicator **370**, e.g., the cell phone, may be undesirable for two reasons: A) unauthorized use may result in unauthorized charges to an authorized user's charge account with a provider of the kit **205** or the Mobile Communicator **370**, e.g., the provider of the cell phone; and B) unauthorized use may result in unauthorized access to the authorized user's personal calling lists, that may include respective names and phone numbers of persons on the list who may want to limit access by others to their names and phone numbers, such as by the unauthorized user. Unauthorized use of the kit **205** or the Mobile Communicator **370**, e.g., the cell phone, may result in unauthorized access to the authorized user's secured information, such as, for example, passwords, personal identification numbers (PIN) and the like. As a number of types of secured information stored in the kit **205** or the Mobile Communicator **370**, e.g., the cell phone increases, unauthorized access to the secured information stored in the kit **205** or the Mobile Communicator **370**, e.g., the cell phone may become a concern. An example of the increased number of secured information types may be a politician's or corporate executive's stored confidential phone numbers and other like secured information. A purpose of embodiments of the present invention may be to protect the owner of the kit **205** or the Mobile Communicator **370**, e.g., the cell phone from an unauthorized user accessing the secured information if their phone were lost or stolen as well as providing features that would aid in recovering the kit **205** or the Mobile Communicator **370**.

The foregoing description of the embodiments of this invention has been presented for purposes of illustration and description. It is not intended to be exhaustive or to limit the invention to the precise form disclosed, and obviously, many modifications and variations are possible. Such modifications and variations that may be apparent to a person skilled in the art are intended to be included within the scope of this invention as defined by the accompanying claims.

What is claimed is:

**1.** A Mobile Communicator having an initial Default Disabled State, comprising:

a contact operable between an open configuration and a closed configuration and positioned to complete an electric circuit when the contact is in the closed position thereby activating the Mobile Communicator and providing the Mobile Communicator with functionality;

a display;

a notification mechanism for alerting a user;

a user interface configured for allowing a user to enter a plurality of destination inputs, the plurality of destination inputs associated with an alphanumeric combination of numbers and letters;

a transmitter in operable communication with the user interface and configured to send a transmission from the mobile communicator to a destination corresponding with the destination input;

a receiver capable of receiving a transmission from a transmitting device; and

an Enabling System, wherein the Enabling System includes a Global Positioning System (GPS) Receiver and an Enabling Circuit, wherein a logic of the Enabling Circuit has changed the initial Default Disabled State of the Mobile Communicator, wherein at least one of the display, the notification mechanism, the user interface,

the transmitter and the receiver is disabled, to an Enabled State, wherein the at least one of the display, the notification mechanism, the user interface, the transmitter and the receiver become enabled, because an at least one condition has been satisfied;

wherein the Mobile Communicator remains in the initial Default Disabled State, wherein at least one of the display, the notification mechanism, the user interface, the transmitter and the receiver is disabled, if the at least one condition is not satisfied, even when the contact is in the closed position and the activating electrical circuit is complete.

**2.** The apparatus of claim **1**, wherein the at least one condition is that there is an emergency.

**3.** The apparatus of claim **1**, wherein the at least one condition is that the GPS Receiver receives a GPS Signal.

**4.** The apparatus of claim **1**, wherein the at least one condition is that the Mobile Communicator has a speed  $\leq$  a setpoint.

**5.** The apparatus of claim **1**, wherein the Mobile Communicator includes a privacy signal receiver configured to receive a privacy signal and wherein at least one condition is that the Mobile Communicator does not receive a Privacy Signal.

**6.** The apparatus of claim **5**, wherein not receiving the privacy signal enables audible receiving and transmitting functions of the Mobile Communicator in a restricted use area.

**7.** The apparatus of claim **6**, wherein each restricted use area is selected from the group consisting of a theater, a sports tournament, a hospital, a waiting room, a library, a spa, a passenger vehicle, a locker room, a business area housing trade secrets or confidential information, a conference room in which trade secrets or confidential proprietary information are discussed and combinations thereof.

**8.** The apparatus of claim **1**, wherein a user of the Mobile Communicator speaking or verbalizing a predetermined word into a Microphone or inputting the predetermined word via a keyboard into the Enabling System, makes the Mobile Communicator operational to call an Emergency Service Provider and/or notify a Location Transmitter to trigger a Locator Beacon.

**9.** The apparatus of claim **8**, wherein the Locator Beacon can be activated by the Emergency Service Provider resulting in the Locator Beacon emitting a locator signal.

**10.** The apparatus of claim **1**, wherein a voice of a user of the Mobile Communicator has been authenticated by a Voice Recognition System.

**11.** The apparatus of claim **10**, wherein the Voice Recognition System authenticates the voice of the user by determining that each sound(s) provided by the user essentially matches a preprogrammed or recorded user identifying sound(s).

**12.** The apparatus of claim **1**, wherein the at least one condition is that a user's voice and/or password is authenticated.

**13.** The apparatus of claim **12**, wherein authenticating the voice or the password of the user identifies an authorized user of the Mobile Communicator to the Emergency Service Provider.

**14.** The apparatus of claim **1**, wherein a name of a person to be called has been preprogrammed or recorded in an address book of the Enabling System.

**15.** The apparatus of claim **1**, wherein when the at least one condition is that no privacy signal has been received, each privacy signal is selected from the group consisting of signals from broadcast and pager systems, signals from optical/infra-

29

red system, signals from acoustic/ultrasonic systems, 2.4 GHz, audible sounds, inaudible sounds and combinations thereof.

16. The apparatus of claim 15, wherein a Microphone of the Mobile Communicator that is used to input a voice, sound(s) or verbal password for authentication by a Voice Recognition System and to input the privacy signal is the same Microphone used for making outgoing calls.

17. A kit for enabling a Mobile Communicator, comprising:

a Mobile Communicator having:

a contact operable between an open configuration and a closed configuration and positioned to complete an electric circuit when the contact is in the closed position thereby activating the Mobile Communicator and providing the Mobile Communicator with functionality;

a display;

a notification mechanism for alerting a user;

a user interface configured for allowing a user to enter a plurality of destination inputs, the plurality of destination inputs associated with an alphanumeric combination of numbers and letters;

a transmitter in operable communication with the user interface and configured to send a transmission from the mobile communicator to a destination corresponding with the destination input; and

a receiver capable of receiving a transmission from a transmitting device;

further wherein the Mobile Communicator includes an initial Default Disabled State, wherein at least one of the display, the notification mechanism, the user interface, the transmitter and the receiver is disabled; and

an Enabling System, wherein the Enabling System includes a Global Positioning System (GPS) Receiver and an Enabling Circuit, and wherein a logic of the Enabling Circuit has enabled the Mobile Communicator, wherein transmitting and audible receiving functions become enabled, because an at least one condition has been satisfied; and

wherein the Mobile Communicator remains in the initial Default Disabled State if the at least one condition is not satisfied, wherein at least one of the display, the notification mechanism, the user interface, the transmitter and the receiver is disabled, even when the contact is in the closed position and the activating electrical circuit is complete.

18. The kit of claim 17, wherein the enabled Mobile Communicator has transmitting and audible receiving functions selected from the group consisting of ringer notification of messages or incoming calls, making incoming and outgoing calls, use of photocopying accessories, use of a camera, use of

30

microcomputer accessories, such as palm pilots, as user interfaces for text messaging or email, electronic communicators, and combinations thereof.

19. A method for enabling a Mobile Communicator having an initial Default Disabled State wherein transmitting and audible receiving functions are disabled, the method comprising:

providing a Global Positioning System (GPS) and an Enabling System in the Mobile Communicator, the Mobile Communicator comprising:

a display;

a notification mechanism for alerting a user;

a user interface configured for allowing a user to enter a plurality of destination inputs, the plurality of destination inputs associated with an alphanumeric combination of numbers and letters;

a transmitter in operable communication with the user interface and configured to send a transmission from the mobile communicator to a destination corresponding with the destination input; and

a receiver capable of receiving a transmission from a transmitting device; and

wherein the Mobile Communicator is in the Default Disabled State, wherein at least one of the display, the notification mechanism, the user interface, the transmitter and the receiver is disabled, and wherein the Mobile Communicator includes a contact operable between an open configuration and a closed configuration and positioned to complete an electric circuit when the contact is in the closed position thereby activating the Mobile Communicator and providing the Mobile Communicator with functionality;

satisfying an at least one condition for enablement of the Mobile Communicator; and

enabling the Mobile Communicator, wherein at least one of the display, the notification mechanism, the user interface, the transmitter and the receiver become enabled;

wherein the Mobile Communicator remains in the initial Default Disabled State, wherein at least one of the display, the notification mechanism, the user interface, the transmitter and the receiver is disabled, if the at least one condition is not satisfied, even when the contact is in the closed position and the activating electrical circuit is complete.

20. The method of claim 19, wherein enabling the Mobile Communicator enables transmitting and audible receiving functions selected from the group consisting of ringer notification of messages or incoming calls, making incoming and outgoing calls, use of photocopying accessories, use of a camera, use of microcomputer accessories, such as palm pilots, as user interfaces for text messaging or email, electronic communicators, and combinations thereof.

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