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(57) Abstract :
The present invention relates to system for safety, security and protection of women, said system includes a user interface configured to send a short message service (SMS) to guardians of the user registered on the user interface when critical event is detected through an alerting unit, wherein the critical event is detected when the user shakes 3 times the user interface in chopping motion; generate a phone call to the guardians of the user when critical event is detected through an emergency calling unit connected with the alerting unit; activate a navigation tracking module when critical event is detected by the alerting unit, wherein when critical event is detected, the location of the user along with tracking link is sent to the guardians of the user via the SMS; and create a pseudo environment of a police vehicle when the critical event is detected through an audible warning unit.



Figure 1

No. of Pages : 24 No. of Claims : 10

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Ruchi Manikrao Dhore

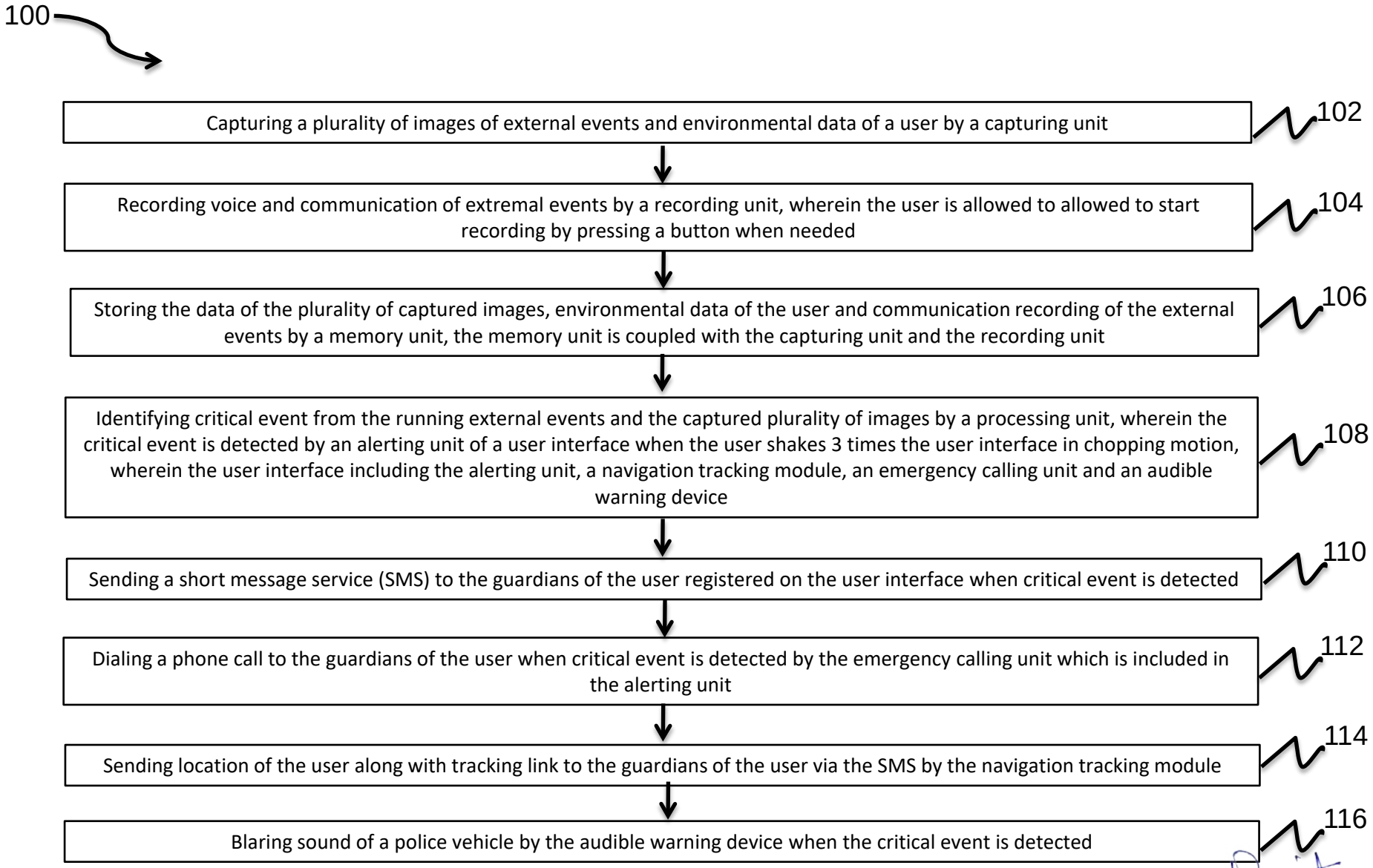

Figure 1

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Manikrao Laxmanrao Dhore
Disha Manikrao Dhore
Ruchi Manikrao Dhore

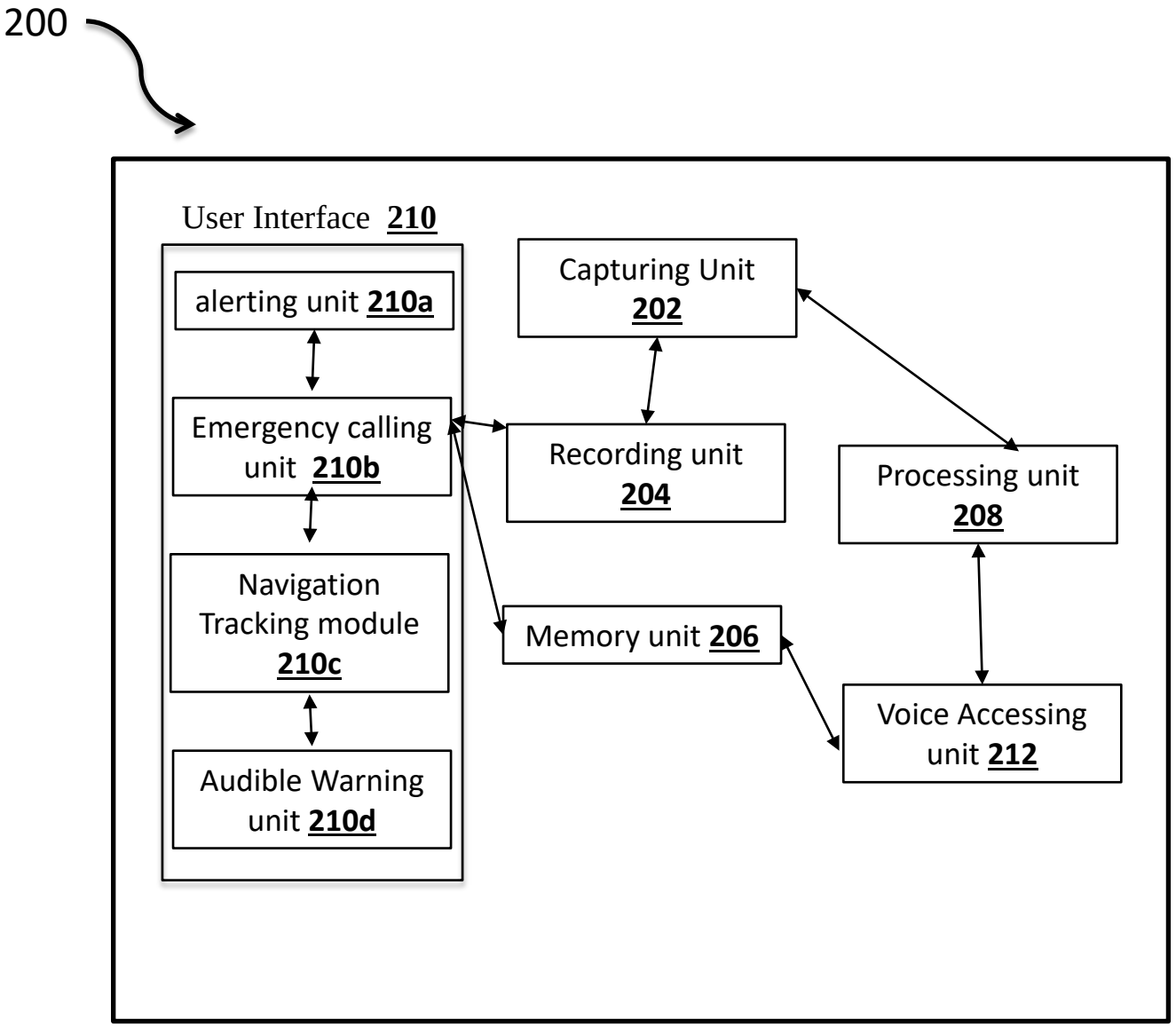

Figure 2

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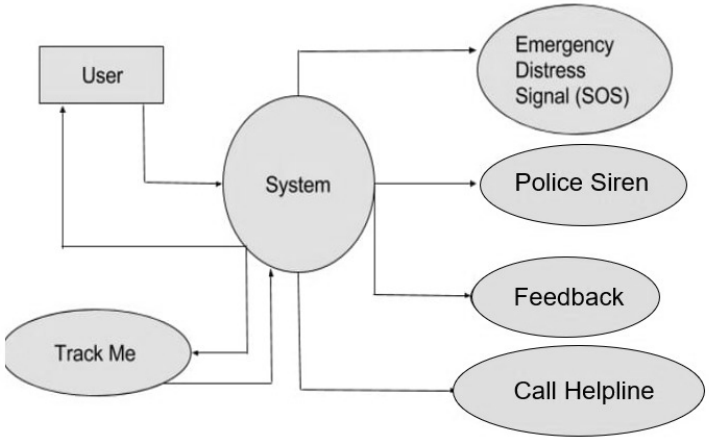

Figure 3

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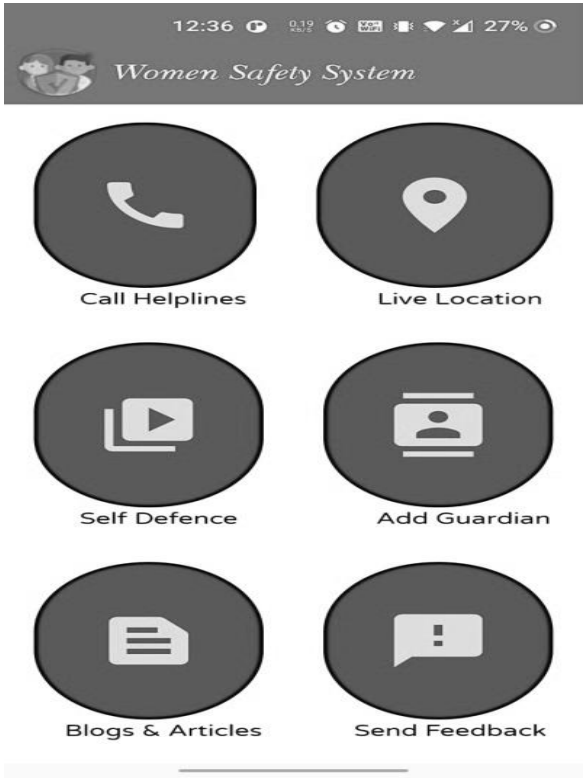

Figure 4

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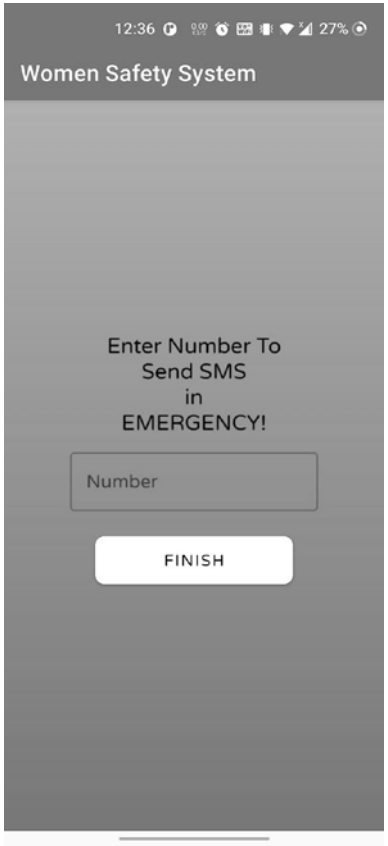

Figure 5

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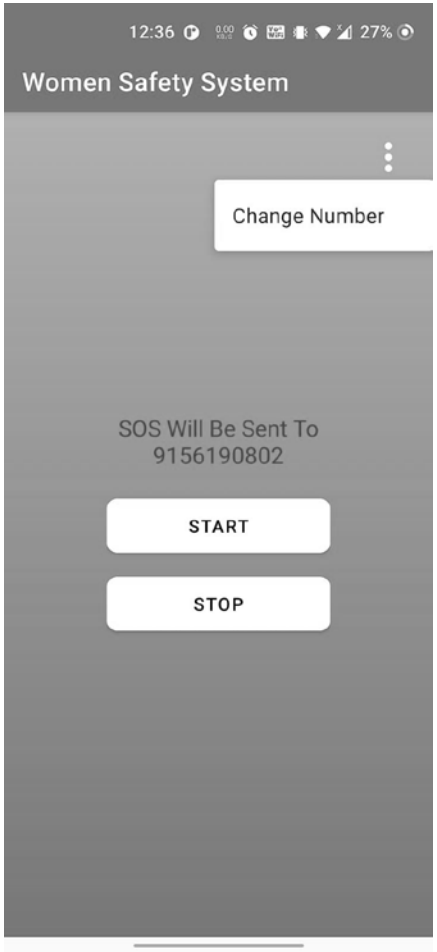

Figure 6

Rajat

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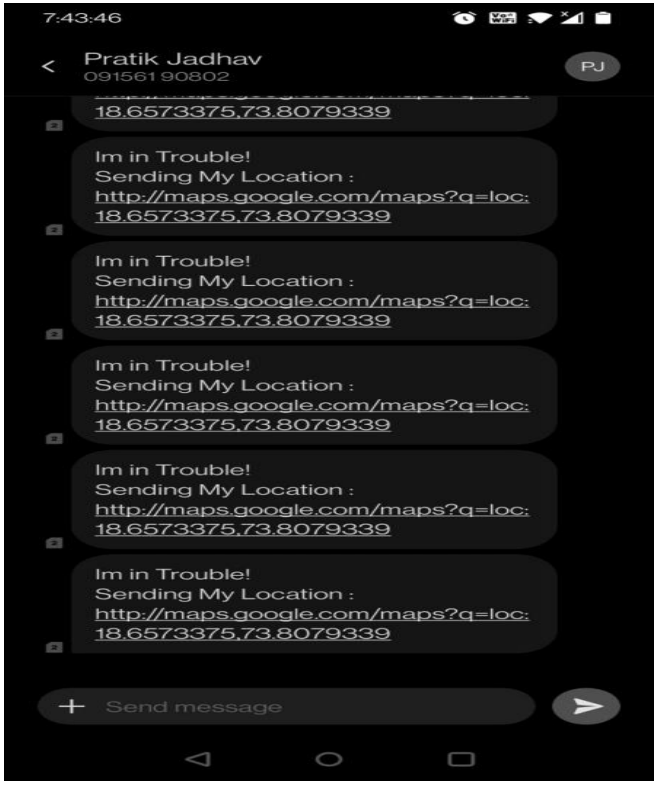

Figure 7

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FORM 2
THE PATENTS ACT 1970
(39 of 1970)
&
THE PATENTS RULES, 2003
COMPLETE SPECIFICATION
(See section 10 and rule 13)

1. TITLE OF THE INVENTION

SYSTEM AND METHOD FOR SAFETY, SECURITY AND PROTECTION OF WOMEN

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2. PREAMBLE TO THE DESCRIPTION

COMPLETE

The following specification particularly describes the invention and the manner in which it is to be performed.

FIELD OF THE INVENTION

The present invention relates to the field of security and in particularly relates to a system and method for safety, security and protection of women.

BACKGROUND OF THE INVENTION

In the present era, after decades of fighting against women safety issues and for their empowerment, there is still have a long battle ahead. The safety and security of women is still at the verge as we have been experiencing that the past few years. Another blow to it, and the state of women safety in India goes downhill. Delhi, the capital city of India, reported approximately over 320 women harassment cases in the year 2020 itself, followed by other major cities like Mumbai and Bangalore.

These atrocious crimes against women like molestation, rape, kidnapping, human trafficking have increased in due course of time. These acts outrage the entire nation and has awakened us to think about these safety issues for women seriously.

In one solution, a safety system to ensure safety procedures is disclosed, it including: one or more sensors for capturing sensory data; a data storage device for storing the sensory data from the one or more sensors; one or more processors, operatively coupled to the one or more sensors; and one or more memories, operatively coupled to the one or more processors, the one or more memories comprising program code which when executed causes the one or more processors to: capture sensory data from the one or more sensors; process the sensory data from the one or more sensors, weighted by attribute data representing information about the sensors used to capture the sensory data, to detect primitive events in the sensory data; correlate two or more primitive events to determine one or more correlated events; and perform one or more actions to ensure safety procedures are followed based on the correlation performed in the correlating step.

In another solution, an intelligent safety system for school is disclosed. The system includes: vomitory machine, identity recognition device, communicator and server, described identity recognition device is arranged at described vomitory machine, read by the identity information in the personnel identity identification card of described vomitory machine, described communicator is connected with described identity recognition

device, described communicator be arranged in described vomitory machine for described server communication, the identity information that described identity recognition device reads is sent to described server by described communicator, identity information described in described server stores, and the time of reading described identity information is sent to the mobile phone terminal bound with described identity information.

In another solution, a monitoring system and method for use in security, safety, and business process applications utilizing a correlation engine are disclosed. The sensory data from one or more sensors are captured and analyzed to detect one or more events in the sensory data. The events are correlated by a correlation engine, optionally by weighing the events based on attributes of the sensors that were used to detect the primitive events. The events are then monitored for an occurrence of one or more correlations of interest, or one or more critical events of interest. A hierarchical storage manager, having access to a hierarchy of two or more data storage devices, is provided to store data from the one or more sensors.

In another solution, a method for design and implementation of an integrated comprehensive public safety and emergency communication system is disclosed which involves the use of at least one of portable and wearable computing and communications devices and unmanned aerial vehicles (UAVs), it including: customizing the design of the at least one of portable and wearable computing and communications devices and proprietary application software thereof, thereby rendering the devices at least one of tamper-proof, tamper-resistant, tamper-evident and operable in at least one of one or more low power, encrypted access, encrypted operating and encrypted communication modes; customizing the implementation of the at least one of custom-designed portable and wearable computing and communications devices and the proprietary application software thereof, thereby rendering the same failover capable, fault-tolerant, fail-safe and operable in at least one of real-time and near real-time; configuring the at least one of custom-designed and implemented portable and wearable computing and communications devices and the proprietary mobile application software thereof for use in at least one of unknown, unexpected, unwanted and untimely situations; at least one of automatically and partially manually capturing at least one of textual data, still images, video, audio and a combination thereof in at least one of unknown, unexpected, unwanted and untimely

situations as evidence using the at least one of custom-designed and implemented portable and wearable computing and communications devices, thereby facilitating timely management of the aforementioned situations; at least one of automatically and partially manually, simultaneously storing the captured data for processing and later use plus transmitting the captured data in at least one of real-time and near real-time, using at least one of one or more available wireless networks based on one or more wireless video and data distribution techniques, to at least one of primary recipients, emergency contacts and a combination thereof; upon failure to receive at least one of proof of delivery, read, approval receipt and a combination thereof from the primary recipients, at least one of automatically and partially manually forwarding the captured data to one or more peers of the primary recipients; upon failure to receive at least one of proof of delivery, read, approval receipt and a combination thereof from the peers of the primary recipients, at least one of automatically and partially manually forwarding the captured data to one or more supervisors of the primary recipients and peers thereof; and upon receipt of at least one of proof of delivery, read, approval receipt and a combination thereof from at least one high-level strategic decision making public authority managing the at least one of law enforcing, policing, fire and other emergency disaster management authorities, at least one of automatically and autonomously flying the UAVs to the detected locations in connection with at least one of unknown, unexpected, unwanted and untimely situations.

In another solution, a method for discouraging a potential perpetrator from proceeding with a crime against a user is disclosed, it including: receiving, by a mobile communication device held or worn by the user, information indicating an activation event; and in response to the information indicating an activation event, capturing, by the mobile communication device, data associated with the potential perpetrator of the crime against the user holding or wearing the mobile communication device, including one or more images or audio of the potential perpetrator; and contemporaneously sending, by the mobile communication device, the image or audio data associated with the potential perpetrator, to a secure and remote storage location, wherein said capturing and sending cannot be reversed or canceled by the potential perpetrator; wherein the potential perpetrator is contemporaneously notified that the image or audio data associated with the potential perpetrator has been captured and sent by the mobile communication device, to discourage the potential perpetrator from further proceeding with the crime.

The existing systems do not address the solution of the problem relating to the safety, security and protection of woman against the crimes. The existing systems, methods and devices do not disclose any system or device for women safety that equips women with a reliable and handy tool to ensure their safety and get help quickly in dangerous situations. Therefore, there exists a need to have a better solution for the safety, security and protection of woman.

SUMMARY OF THE INVENTION

The present invention relates to the field of security and in particularly relates to a system and method for safety, security and protection of women.

An object of the present invention is to send a short message service (SMS) to guardians of the user registered on the user interface when critical event is detected.

Another object of the present invention is to improve the performance of the hybrid air conditioning system by changing the design without affecting vehicular system performance.

Another object of the present invention is to generate a phone call to the guardians of the user when critical event is detected.

Another object of the present invention is to activate a navigation tracking module when critical event is detected by the alerting unit, wherein when critical event is detected, the location of the user along with tracking link is sent to the guardians of the user via the SMS.

Another object of the present invention is to create a pseudo environment of a police vehicle when the critical event is detected through an audible warning unit.

In an embodiment, system for safety, security and protection of women, said system includes of a capturing unit configured to capture a plurality of images of external events and environmental data of an user;a recording unit adapted to record voice and communication of the extremal events, wherein the user is allowed to start recording by pressing a button when needed; a memory unit coupled with the capturing unit and the

recording unit to store the data of the plurality of captured images, environmental data of the user and communication recording of the external events;a processing unit connected with the capturing unit configured to analyze the captured images and identify critical event from the external events;a user interface configured to send a short message service (SMS) to guardians of the user registered on the user interface when critical event is detected through an alerting unit, wherein the critical event is detected when the user shakes 3 times the user interface in chopping motion;generate a phone call to the guardians of the user when critical event is detected through an emergency calling unit connected with the alerting unit; activate a navigation tracking module when critical event is detected by the alerting unit, wherein when critical event is detected, the location of the user along with tracking link is sent to the guardians of the user via the SMS; andcreate a pseudo environment of a police vehicle when the critical event is detected through an audible warning unit.

In another embodiment, method for safety, security and protection of women, said method includes of capturing a plurality of images of external events and environmental data of a user by a capturing unit; recording voice and communication of extremal events by a recording unit, wherein the user is allowed to start recording by pressing a button when needed; storing the data of the plurality of captured images, environmental data of the user and communication recording of the external events by a memory unit, the memory unit is coupled with the capturing unit and the recording unit; identifying critical event from the running external events and the captured plurality of images by a processing unit, wherein the critical event is detected by an alerting unit of a user interface when the user shakes 3 times the user interface in chopping motion, wherein the user interface including the alerting unit, a navigation tracking module, an emergency calling unit and an audible warning device; sending a short message service (SMS) to the guardians of the user registered on the user interface when critical event is detected; dialing a phone call to the guardians of the user when critical event is detected by the emergency calling unit which is included in the alerting unit; sending location of the user along with tracking link to the guardians of the user via the SMS by the navigation tracking module; and blaring sound of a police vehicle by the audible warning device when the critical event is detected.

To further clarifythe advantages and features of the present invention, a more particular description of the invention will be rendered by reference to specific embodiments thereof, which is illustrated in the appended drawings. It is appreciated that these drawings depict only typical embodiments of the invention and are therefore not to be considered limiting of its scope. The invention will be described and explained with additional specificity and detail with the accompanying drawings.

BRIEF DESCRIPTION OF FIGURES

These and other features, aspects, and advantages of the present invention will become better understood when the following detailed description is read with reference to the accompanying drawings in which like characters represent like parts throughout the drawings, wherein:

Figure 1illsutartes a flow chart for a method for safety, security and protection of women,

Figure 2shows a block diagram for working of the system for safety, security and protection of women, and

Figure 3 shows a flow chart ofworking of the system.

Figure 4 illustrates List of features provided on user interface;

Figure 5 illustrates examplaryimplemenatation of Addition of Guardian Contact and Updating it if required;

Figure 6 illustrates Activation and Triggering of Shake Service;

Figure 7 illustrates SMS sent to User's Guardian along with location.

Further, skilled artisans will appreciate that elements in the drawings are illustrated for simplicity and may not have been necessarily been drawn to scale. For example, the flow charts illustrate the method in terms of the most prominent steps involved to help to improve understanding of aspects of the present disclosure. Furthermore, in terms of the construction of the device, one or more components of the device may have been represented in the drawings by conventional symbols, and the drawings may show only those specific details that are pertinent to understanding the embodiments of the present

disclosure so as not to obscure the drawings with details that will be readily apparent to those of ordinary skill in the art having benefit of the description herein.

DETAILED DESCRIPTION:

For the purpose of promoting an understanding of the principles of the invention, reference will now be made to the embodiment illustrated in the drawings and specific language will be used to describe the same. It will nevertheless be understood that no limitation of the scope of the invention is thereby intended, such alterations and further modifications in the illustrated system, and such further applications of the principles of the invention as illustrated therein being contemplated as would normally occur to one skilled in the art to which the invention relates.

It will be understood by those skilled in the art that the foregoing general description and the following detailed description are exemplary and explanatory of the invention and are not intended to be restrictive thereof.

Reference throughout this specification to “an aspect”, “another aspect” or similar language means that a particular feature, structure, or characteristic described in connection with the embodiment is included in at least one embodiment of the present invention. Thus, appearances of the phrase “in an embodiment”, “in another embodiment” and similar language throughout this specification may, but do not necessarily, all refer to the same embodiment.

The terms "comprises", "comprising", or any other variations thereof, are intended to cover a non-exclusive inclusion, such that a process or method that comprises a list of steps does not include only those steps but may include other steps not expressly listed or inherent to such process or method. Similarly, one or more devices or sub-systems or elements or structures or components proceeded by "comprises...a" does not, without more constraints, preclude the existence of other devices or other sub-systems or other elements or other structures or other components or additional devices or additional sub-systems or additional elements or additional structures or additional components.

Unless otherwise defined, all technical and scientific terms used herein have the same meaning as commonly understood by one of ordinary skill in the art to which this invention belongs. The system, methods, and examples provided herein are illustrative only and not intended to be limiting.

The present invention provides a simple User Interface to keep the user interface as simple as possible and making it easy to use for any age group of people. When the user shakes his device continuously, an emergency SMS is sent to user's guardian. This feature is basically the playing of police siren/ alarm audio on user touch of the respective tile. The thought behind this feature is that it creates a pseudo environment of a police car being in the close proximity of the user which can help in keeping away unnecessary trouble before it happens. The claimed system provides a specially prepared video playlist on self-defence techniques which are catered to user's needs. This helps us to achieve our women independence moto.

Embodiments of the present invention will be described below in detail with reference to the accompanying drawings.

Figure 1illsutartes a flow chart for a method for safety, security and protection of women. The method (100) includes

Step 102 of capturing a plurality of images of external events and environmental data of a user by a capturing unit

Step 104 of recording voice and communication of extremal events by a recording unit, wherein the user is allowed to start recording by pressing a button when needed

Step 106 of storing the data of the plurality of captured images, environmental data of the user and communication recording of the external events by a memory unit, the memory unit is coupled with the capturing unit and the recording unit

Step 108 of identifying critical event from the running external events and the captured plurality of images by a processing unit, wherein the critical event is detected by an alerting unit of a user interface when the user shakes 3 times the user interface in chopping motion, wherein the user interface including the alerting unit, a navigation tracking module, an emergency calling unit and an audible warning device

Step 110 of sending a short message service (SMS) to the guardians of the user registered on the user interface when critical event is detected

Step 112 of dialing a phone call to the guardians of the user when critical event is detected by the emergency calling unit which is included in the alerting unit

Step 114 of sending location of the user along with tracking link to the guardians of the user via the SMS by the navigation tracking module

Step 116 of blaring sound of a police vehicle by the audible warning device when the critical event is detected.

In an embodiment, the user is allowed to send the SMS to anyone when critical event is detected or critical event is about to detect.

In another embodiment, the user is allowed to share the live location when critical event is detected or critical event is about to detect.

In another embodiment, the method 100 includes of controlling operations of spoken commands by a voice accessing unit.

In another embodiment, the user interface including a video data server which provides specially prepared video playlists to the user on self-defense technique.

Figure 2 illustrates a block diagram for working of the system for safety, security and protection of women. The system 200 includes of a capturing unit 202 configured to capture a plurality of images of external events and environmental data of an user; a recording unit 204 adapted to record voice and communication of the extremal events, wherein the user is allowed to start recording by pressing a button when needed; a memory unit 206 coupled with the capturing unit 202 and the recording unit 204 to store the data of the plurality of captured images, environmental data of the user and communication recording of the external events; a processing unit 208 connected with the capturing unit 202 configured to analyze the captured images and identify critical event from the external events; a user interface 210 configured to send a short message service (SMS) to guardians of the user registered on the user interface when critical event is detected through an alerting unit 210a, wherein the critical event is detected when the user shakes 3 times the user interface in chopping motion; generate a phone call to the guardians of the user when critical event is detected through an emergency calling unit 210b connected with the alerting unit 210a; activate a navigation

tracking module 210c when critical event is detected by the alerting unit 210a, wherein when critical event is detected, the location of the user along with tracking link is sent to the guardians of the user via the SMS; and create a pseudo environment of a police vehicle when the critical event is detected through an audible warning unit 210d.

In an embodiment, the user is allowed to send the SMS to anyone when critical event is detected or critical event is about to detect.

In another embodiment, the user is allowed to share the live location when critical event is detected or critical event is about to detect.

In another embodiment, the system 200 includes a voice accessing unit 212 to control operations of spoken commands.

In another embodiment, the user interface including a video data server which provides specially prepared video playlists to the user on self-defense technique.

Figure 3 shows a flow chart of working of the system.When user starts the smartphone, the home page will display. It shows the basic features our systems. When user registered itself, she is able to add a emergency contact called guardian. After registration the user is taken to a new screen the next time onwards. Here She is able to start or stop the shake functionality. When user triggers the service by shaking the device 3 times in chop motion, emergency distress signal is sent to the guardian. By default the message is “I am in trouble..!!!”. The user’s then – location is also sent along with it.

Figure 4 illustrates List of features provided on user interface. The UI is kept simple and faster which allows the systems to be used effortlessly by our user in case of danger.

Figure 5 illustrates examplaryimplemenatation of Addition of Guardian Contact and Updating it if required. On opening the system page for the first time, users are expected to navigate to the ‘Add Guardian’ tile and enter the phone number of a trustworthy person of their choice as their guardian in case of danger. After clicking on finish the number is stored and from next time onwards, on clicking the tile, user will be displayed the options for starting or stopping the service which is explained in the further stage of our use case. The user can also change the guardian contact using the ‘Change Number’ feature.

Figure 6 illustrates Activation and Triggering of Shake Service. After completing the first stage of our application, the user is redirected to a new screen there onwards, where she will

be having two options so as to ‘Start’ the service or ‘Stop’ it. The start of service will permit the app to detect shake motion thus triggering the emergency SMS signal and the stop service will disengage the application from any further motion detection. This feature is particularly helpful when the user doesn’t want the signal to get triggered unintentionally due to some other factor and thus provides her the flexibility to use this service. The emergency service is triggered when the user shakes the device in chopping motion 3 times with a maximum delay/interval of 200 milliseconds.

Figure 7 illustrates SMS sent to User’s Guardian along with location. When the user triggers the Emergency service, an SMS is sent to the user’s guardian which contains the user’s then-location which can be accessed through Google Maps services. The user can trigger the service multiple times, if possible, to keep the guardian updated of her location. Apart from this if the user finds herself in a more severe situation, she could get help from the police or ambulance depending on her need on just a click on her smartphone. Additionally, as mentioned earlier WESA is not just about getting help in dangerous situations. It also focuses on the development and independence of women by its ‘Call Women Helpline’ feature to get professional help and also via its awareness and educative tabs such as ‘Self-defense’ and ‘Blogs’ which contains videos and articles related to self-defense techniques respectively.

The drawings and the forgoing description give examples of embodiments. Those skilled in the art will appreciate that one or more of the described elementsmay well be combined into a single functional element. Alternatively, certain elementsmay be split into multiple functional elements. Elementsfrom one embodiment may be added to another embodiment. For example, orders of processes described herein may be changed and are not limited to the manner described herein. Moreover, the actions of any flow diagram need not be implemented in the order shown; nor do all of the acts necessarily need to be performed. Also, those acts that are not dependent on other acts may be performed in parallel with the other acts. The scope of embodiments is by no meanslimited by these specific examples. Numerous variations, whether explicitly given in the specification or not, such as differences in structure, dimension, and use of material, are possible. The scope of embodiments is at least as broad as given by the following claims.

Benefits, other advantages, and solutions to problems have been described above with regard to specific embodiments. However, the benefits, advantages, solutions to problems, and any component(s) that may cause any benefit, advantage, or solution to occur or become more pronounced are not to be construed as a critical, required, or essential feature or component of any or all the claims.

We Claim:

1. A system for safety, security and protection of women, said system comprising:

a capturing unit configured to capture a plurality of images of external events and environmental data of an user;

a recording unit adapted to record voice and communication of the extremal events, wherein the user is allowed to start recording by pressing a button when needed;

a memory unit coupled with the capturing unit and the recording unit to store the data of the plurality of captured images, environmental data of the user and communication recording of the external events;

a processing unit connected with the capturing unit configured to analyze the captured images and identify critical event from the external events;

a user interface configured to:

send a short message service (SMS) to guardians of the user registered on the user interface when critical event is detected through an alerting unit, wherein the critical event is detected when the user shakes 3 times the user interface in chopping motion;

generate a phone call to the guardians of the user when critical event is detected through an emergency calling unit connected with the alerting unit;

activate a navigation tracking module when critical event is detected by the alerting unit, wherein when critical event is detected, the location of the user along with tracking link is sent to the guardians of the user via the SMS; and

create a pseudo environment of a police vehicle when the critical event is detected through an audible warning unit.

2. The system as claimed in claim 1, wherein the user is allowed to send the SMS to anyone when critical event is detected or critical event is about to detect.

3. The system as claimed in claim 1, wherein the user is allowed to share the live location when critical event is detected or critical event is about to detect.

4. The system as claimed in claim 1, wherein the system including a voice accessing unit for controlling operations of spoken commands.

5. The system as claimed in claim 1, wherein the user interface including a video data server which provides specially prepared video playlists to the user on self-defense technique.

6. A method for safety, security and protection of women, said method comprising the steps of:

capturing a plurality of images of external events and environmental data of a user by a capturing unit;

recording voice and communication of extremal events by a recording unit, wherein the user is allowed to start recording by pressing a button when needed;

storing the data of the plurality of captured images, environmental data of the user and communication recording of the external events by a memory unit, the memory unit is coupled with the capturing unit and the recording unit;

identifying critical event from the running external events and the captured plurality of images by a processing unit, wherein the critical event is detected by an alerting unit of a user interface when the user shakes 3 times the user interface in chopping motion, wherein the user interface including the alerting unit, a navigation tracking module, an emergency calling unit and an audible warning device;

sending a short message service (SMS) to the guardians of the user registered on the user interface when critical event is detected;

dialing a phone call to the guardians of the user when critical event is detected by the emergency calling unit which is included in the alerting unit;

sending location of the user along with tracking link to the guardians of the user via the SMS by the navigation tracking module; and

blaring sound of a police vehicle by the audible warning device when the critical event is detected.

7. The method as claimed in claim 6, wherein the user is allowed to send the SMS to anyone when critical event is detected or critical event is about to detect.

8. The method as claimed in claim 6, wherein the user is allowed to share the live location when critical event is detected or critical event is about to detect.

9. The method as claimed in claim 6, further comprising of controlling operations of spoken commands by a voice accessing unit.

10. The method as claimed in claim 6, wherein the user interface including a video data server which provides specially prepared video playlists to the user on self-defense technique.

Dated this 12th day of April, 2022



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ABSTRACT

SYSTEM AND METHOD FOR SAFETY, SECURITY AND PROTECTION OF WOMEN

The present invention relates to system for safety, security and protection of women, said system includes a user interface configured to send a short message service (SMS) to guardians of the user registered on the user interface when critical event is detected through an alerting unit, wherein the critical event is detected when the user shakes 3 times the user interface in chopping motion; generate a phone call to the guardians of the user when critical event is detected through an emergency calling unit connected with the alerting unit; activate a navigation tracking module when critical event is detected by the alerting unit, wherein when critical event is detected, the location of the user along with tracking link is sent to the guardians of the user via the SMS; and create a pseudo environment of a police vehicle when the critical event is detected through an audible warning unit.

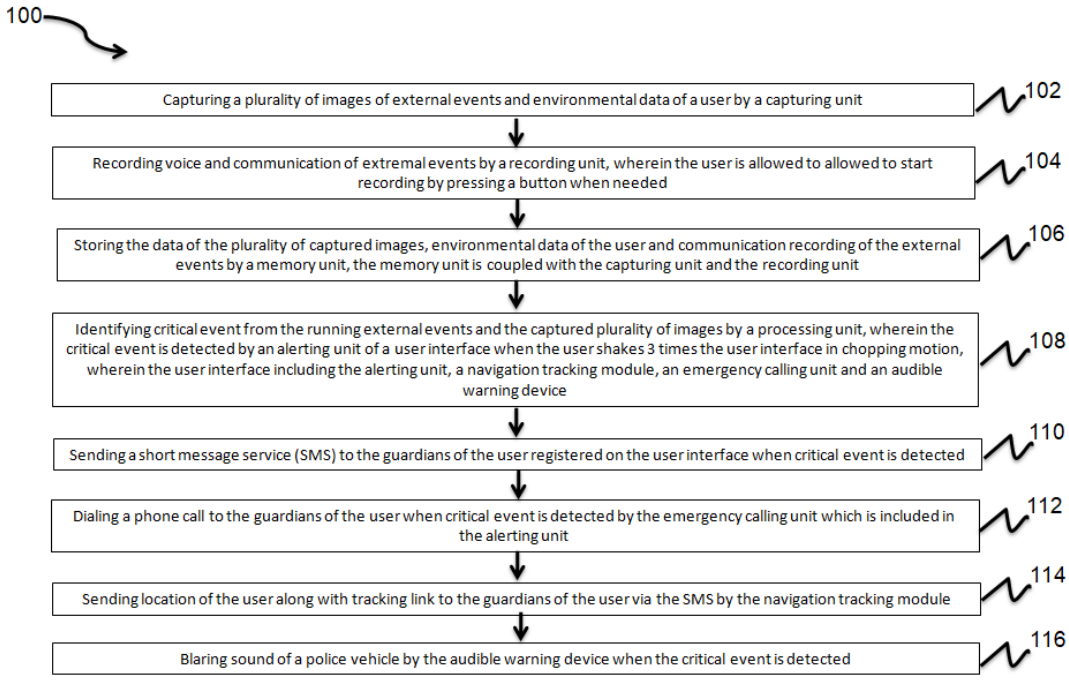

Figure 1