
CONDITIONAL AMENDMENT 1

Claims

1. A method for remote monitoring of glucose in a host comprising:

receiving, at a remote mobile computing device (114), a notification message representative of an event satisfying a rule associated with an analyte level of a host, via a server (110), based on analyte sensor data obtained from a transcutaneous analyte sensor (10) monitoring the analyte state of the host, wherein the rule is generated or configured based on a setting initially set by the host via a host monitoring application installed on a mobile host communication device (105);

modifying, using a remote monitoring application installed on the remote mobile computing device, alert settings associated with the analyte level on the remote mobile computing device based on the rule initially set by the host via the host monitoring application;

wherein the modifying occurs prior to the receiving and results in different rules for triggering the notification message by the server than rules used to trigger alerts to the host by the mobile host communication device (105);

wherein the modified alert settings are transmitted to the server (110) for storage;

wherein the server is configured to process sensor data to determine an event by reference to high and/or low threshold values defined by the rules in the modified alert settings;

activating, at the remote monitoring computing device (114), on receipt of the notification message the remote monitoring application, wherein the remote monitoring application is configured by the server (110) to receive the notification message;

accessing, by the remote monitoring application, the server (110), in response to the receiving the notification message, wherein the accessing further comprises establishing a connection between the remote mobile computing device (114) via the remote monitoring application and the server (110);

receiving, at the remote monitoring application, information including the analyte sensor data from the server (110); and

presenting the information in accordance with modified alert settings at the remote monitoring application.

2. The method of Claim 1, wherein the receiving the notification message further comprises receiving the notification message from at least a first wireless connection between the remote mobile computing device (114) and a notification service (112) coupled to the server (110), and wherein additional information comprising at least additional analyte sensor data is received from at least a second wireless connection between the remote mobile computing device (114) and the server (110).

3. The method of Claim 2, wherein the first wireless connection comprises a persistent, encrypted connection configured to carry the notification message pushed by the notification service (112) to a notification message center at the remote mobile computing device (114), and wherein the second wireless connection comprises a momentary, encrypted connection

established, in response to the accessing, to provide the information and the additional information.

4. The method of any of Claims 1-3, wherein the presenting further comprises:

inhibiting access to one or more other applications running on the remote mobile computing device (114) until an action by the user at the remote mobile computing device (114) is detected to indicate receipt of the notification message.

5. The method of any of Claims 1-3, wherein the presenting further comprises:

presenting the notification message as a momentary message on a display at the remote mobile computing device (114) without inhibiting access to one or more other applications running on the remote mobile computing device (114) until an action by the user at the remote mobile computing device (114) is detected to indicate receipt of the notification message.

6. The method of any of Claims 1-3, wherein the accessing further comprises: automatically opening the remote monitoring application on the remote mobile computing device (114) and displaying the user's monitored health information upon receiving user acknowledgment of the notification message.

~~7. The method of any of Claims 1-5, further comprising: detecting at the server (110), based on a first set of rules associated with the analyte threshold level of the host, the event, wherein the first set of rules is used to generate the notification message and is different from a second set of rules used by the server (110) to trigger an alert to the mobile host communication device (105) coupled to a sensor system at the host.~~

~~8.~~ 7. The method of any of Claims 1-~~7~~6, wherein the remote mobile computing device (114) is one of a plurality of remote monitors, wherein at least one of the plurality of remote monitors is designated as a primary monitor, and at least another of the plurality of remote monitors is designated as a secondary monitor.

~~9.~~ 8. The method of any of Claims 1-~~8~~7, further comprising: configuring, by the remote mobile computing device (114), one or more invitations sent to one or more devices to invite the one or more devices to monitor the mobile host communication device (105).

~~10.~~ 9. The method of Claim 1, further comprising: sending, by the remote mobile computing device (114), to the server (110), a message acknowledging a receipt of the notification message.

~~11.~~ 10. The method of any of Claims 1-~~10~~9, wherein the notification message includes at least one of (i) an indication of a need of the host to calibrate a sensor monitoring the analyte state of the host and (ii) an acknowledgement message indicating at least one of an action or an acknowledgement sent from the host by the mobile host communication device (105) in response to an alarm sent to the mobile host communication device (105).

~~12.~~ 11. A remote monitoring system for monitoring an analyte state of a host, the system comprising:

a transcutaneous analyte sensor (10) monitoring an analyte state of a host; a remote monitoring application installed on a remote mobile computing device (114); a host monitoring application installed on a host communication device (105); and a server comprises at least one processing unit, wherein the remote monitoring application, the host monitoring application and server include program instructions, which when executed cause the system to implement the method of anyone of the preceding claims.

~~13.~~ 12. The system of claim 12, wherein the remote monitoring an analyte state of a host computing device and the host communication device comprise one or more of a wireless terminal, a tablet, a smart phone, a multi-mode wireless device, and a computer.

CONDITIONAL AMENDMENT 2

Claims

1. A method for remote monitoring of glucose in a host from at least first and second remote mobile computing devices (114), wherein for each of the remote mobile computing devices the method comprises ~~comprising~~:

receiving, at a remote mobile computing device (114), a notification message representative of an event satisfying a rule associated with an analyte level of a host, via a server (110), based on analyte sensor data obtained from a transcutaneous analyte sensor (10) monitoring the analyte state of the host, wherein the rule is generated or configured based on a setting initially set by the host via a host monitoring application installed on a mobile host communication device (105);

modifying, using a remote monitoring application installed on the remote mobile computing device, alert settings associated with the analyte level on the remote mobile computing device based on the rule initially set by the host via the host monitoring application;

wherein the modifying occurs prior to the receiving and results in different rules for triggering the notification message by the server than rules used to trigger alerts to the host by the mobile host communication device (105);

wherein the modified alert settings are transmitted to the server (110) for storage;

wherein the server is configured to process sensor data to determine an event by reference to high and low threshold values defined by the rules in the modified alert settings;

activating, at the remote monitoring computing device (114), on receipt of the notification message the remote monitoring application, wherein the remote monitoring application is configured by the server (110) to receive the notification message;

accessing, by the remote monitoring application, the server (110), in response to the receiving the notification message, wherein the accessing further comprises establishing a connection between the remote mobile computing device (114) via the remote monitoring application and the server (110);

receiving, at the remote monitoring application, information including the analyte sensor data from the server (110); and

presenting the information in accordance with modified alert settings at the remote monitoring application~~.~~;

wherein the rules comprise high and low threshold values that trigger a notification message to the first remote mobile computing device (114) that are different from high and low threshold values that trigger a notification message to the second remote mobile computing device (114).

2. The method of Claim 1, wherein the receiving the notification message further comprises receiving the notification message from at least a first wireless connection between the remote mobile computing device (114) and a notification service (112) coupled to the server

(110), and wherein additional information comprising at least additional analyte sensor data is received from at least a second wireless connection between the remote mobile computing device (114) and the server (110).

3. The method of Claim 2, wherein the first wireless connection comprises a persistent, encrypted connection configured to carry the notification message pushed by the notification service (112) to a notification message center at the remote mobile computing device (114), and wherein the second wireless connection comprises a momentary, encrypted connection established, in response to the accessing, to provide the information and the additional information.

4. The method of any of Claims 1-3, wherein the presenting further comprises:

inhibiting access to one or more other applications running on the remote mobile computing device (114) until an action by the user at the remote mobile computing device (114) is detected to indicate receipt of the notification message.

5. The method of any of Claims 1-3, wherein the presenting further comprises:

presenting the notification message as a momentary message on a display at the remote mobile computing device (114) without inhibiting access to one or more other applications running on the remote mobile computing device (114) until an action by the user at the remote mobile computing device (114) is detected to indicate receipt of the notification message.

6. The method of any of Claims 1-3, wherein the accessing further comprises: automatically opening the remote monitoring application on the remote mobile computing device (114) and displaying the user's monitored health information upon receiving user acknowledgment of the notification message.

~~7. The method of any of Claims 1-5, further comprising: detecting at the server (110), based on a first set of rules associated with the analyte threshold level of the host, the event, wherein the first set of rules is used to generate the notification message and is different from a second set of rules used by the server (110) to trigger an alert to the mobile host communication device (105) coupled to a sensor system at the host.~~

~~8.~~ 7. The method of any of Claims 1-~~7~~6, ~~wherein the remote mobile computing device (114) is one of a plurality of remote monitors~~, wherein at least one of the plurality of remote monitors is designated as a primary monitor, and at least another of the plurality of remote monitors is designated as a secondary monitor.

~~9.~~ 8. The method of any of Claims 1-~~8~~7, further comprising: configuring, by the remote mobile computing device (114), one or more invitations sent to one or more devices to invite the one or more devices to monitor the mobile host communication device (105).

~~10.~~ 9. The method of Claim 1, further comprising: sending, by the remote mobile computing device (114), to the server (110), a message acknowledging a receipt of the notification message.

~~11.~~ 10. The method of any of Claims 1-~~10~~9, wherein the notification message includes at least one of (i) an indication of a need of the host to calibrate a sensor monitoring the analyte state of the host and (ii) an acknowledgement message indicating at least one of an action or an acknowledgement sent from the host by the mobile host communication device (105) in response to an alarm sent to the mobile host communication device (105).

~~12.~~ 11. A remote monitoring system for monitoring an analyte state of a host, the system comprising:

a transcutaneous analyte sensor (10) monitoring an analyte state of a host; a remote monitoring application installed on at least first and second ~~a~~ remote mobile computing devices (114); a host monitoring application installed on a host communication device (105); and a server comprises at least one processing unit, wherein the remote monitoring application, the host monitoring application and server include program instructions, which when executed cause the system to implement the method of anyone of the preceding claims.

~~13.~~ 12. The system of claim ~~12~~11, wherein the remote monitoring an analyte state of a host computing device and the host communication device comprise one or more of a wireless terminal, a tablet, a smart phone, a multi-mode wireless device, and a computer.