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(54) **METHOD AND APPARATUS FOR MEASURING A HUMAN PHYSIOLOGICAL SIGNAL**

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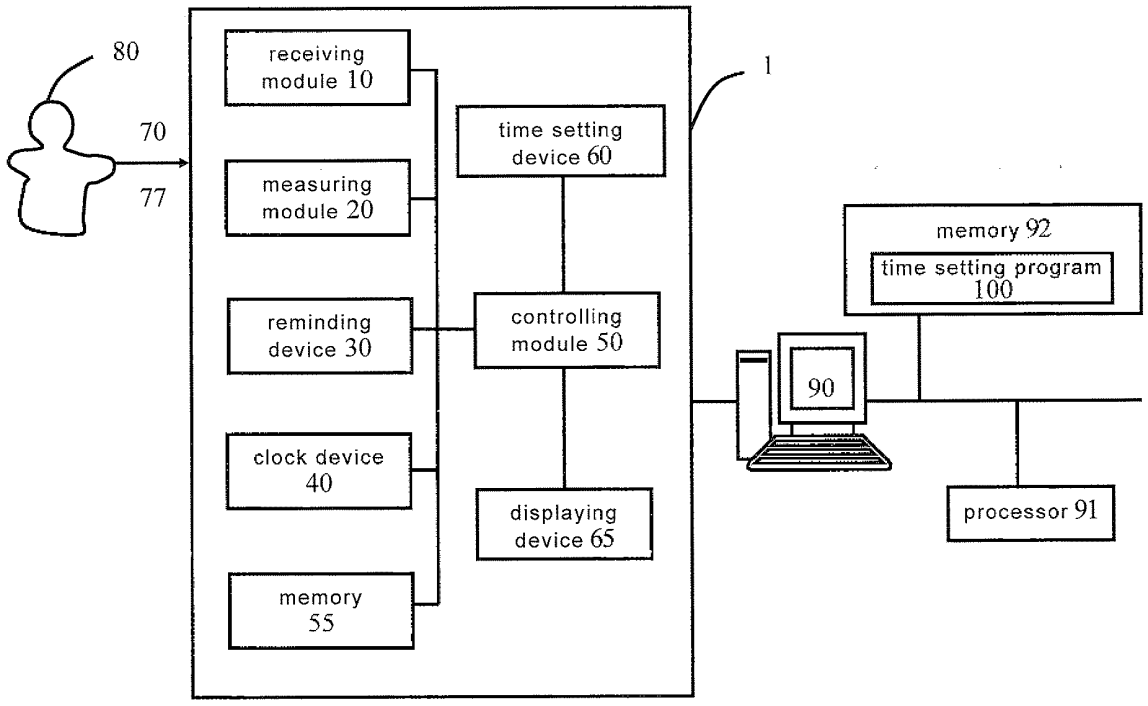
(57) **ABSTRACT**

A method for measuring a human physiological signal includes: receiving a reminder canceling time range; measuring a human physiological signal by a human physiological signal measuring apparatus; and determining if a measurement-related time for measuring the physiological signal falls within the reminder canceling time range, followed by releasing a reminding device in response to an affirmative determination.



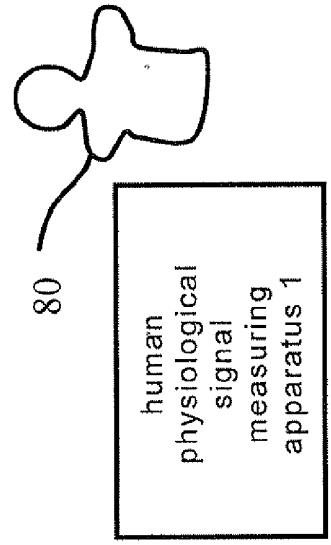


FIG.1(B)

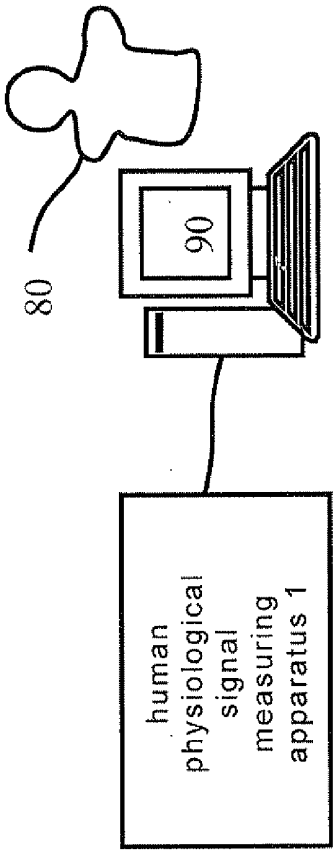


FIG.1(A)

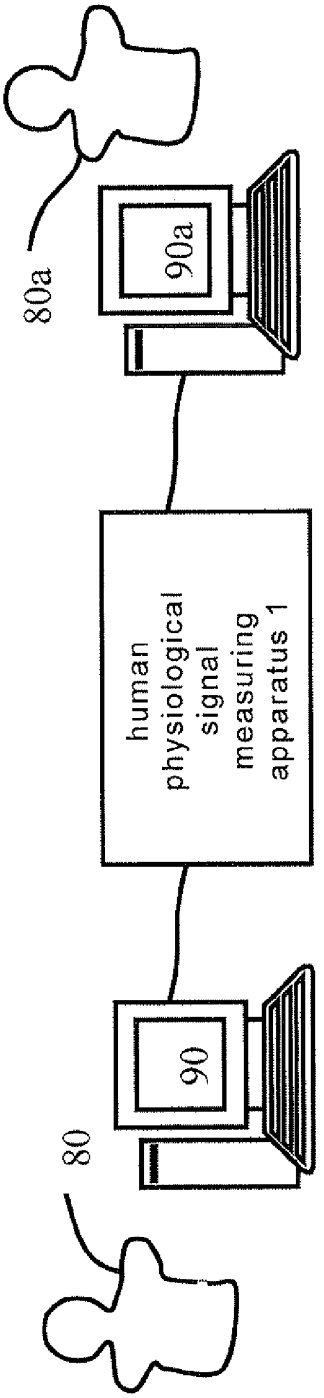


FIG.1(C)

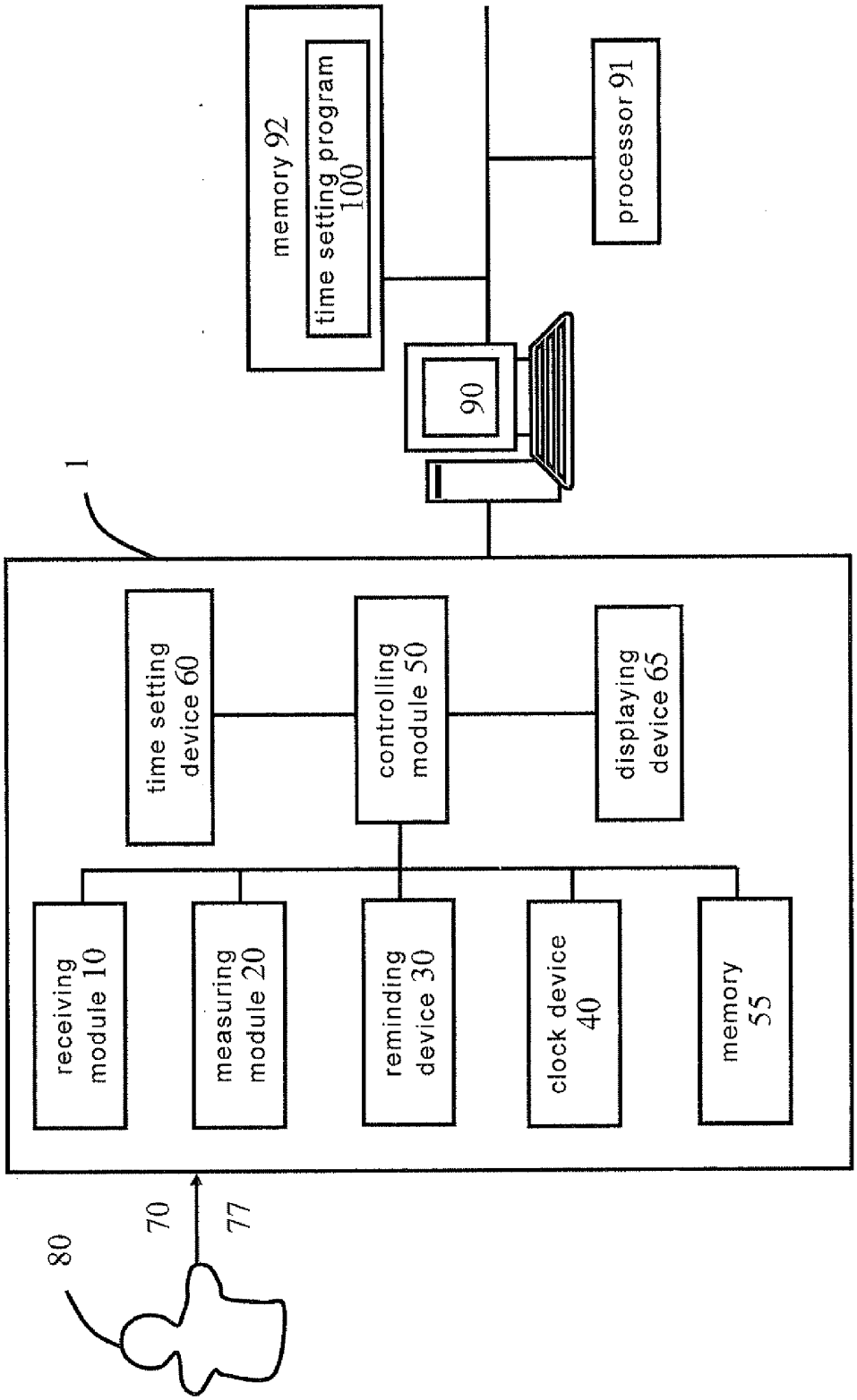

memory 92
time setting program 100
processor 91
90
1
time setting device 60
controlling module 50
displaying device 65
receiving module 10
measuring module 20
reminding device 30
clock device 40
memory 55
80
70
77

FIG.2

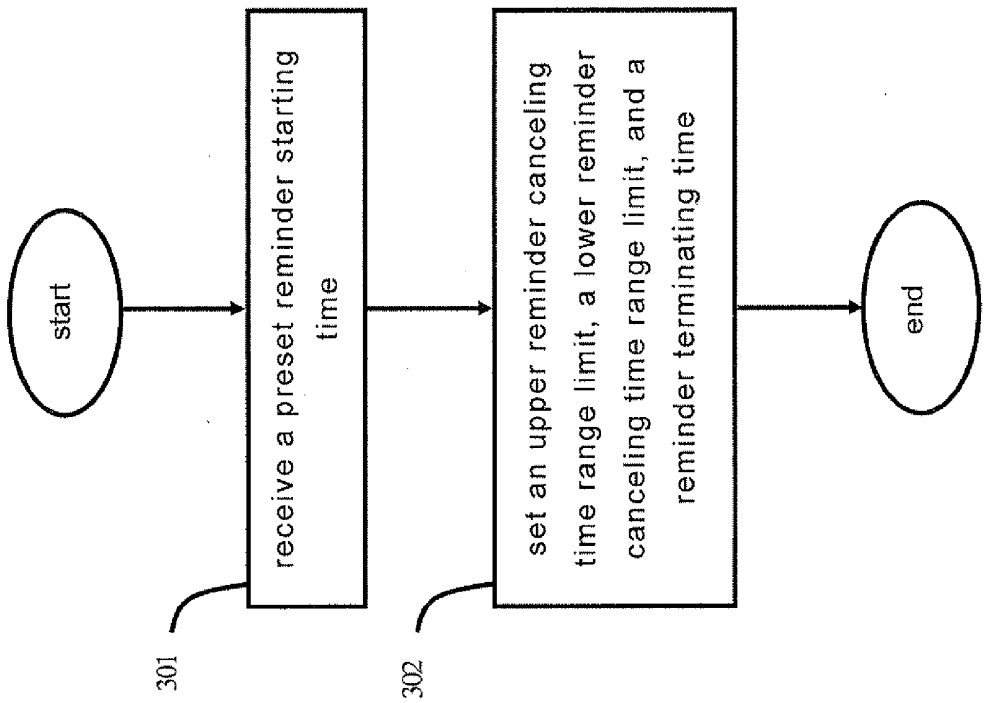

start
receive a preset reminder starting time
set an upper reminder canceling time range limit, a lower reminder canceling time range limit, and a reminder terminating time
end
301
302

FIG.3

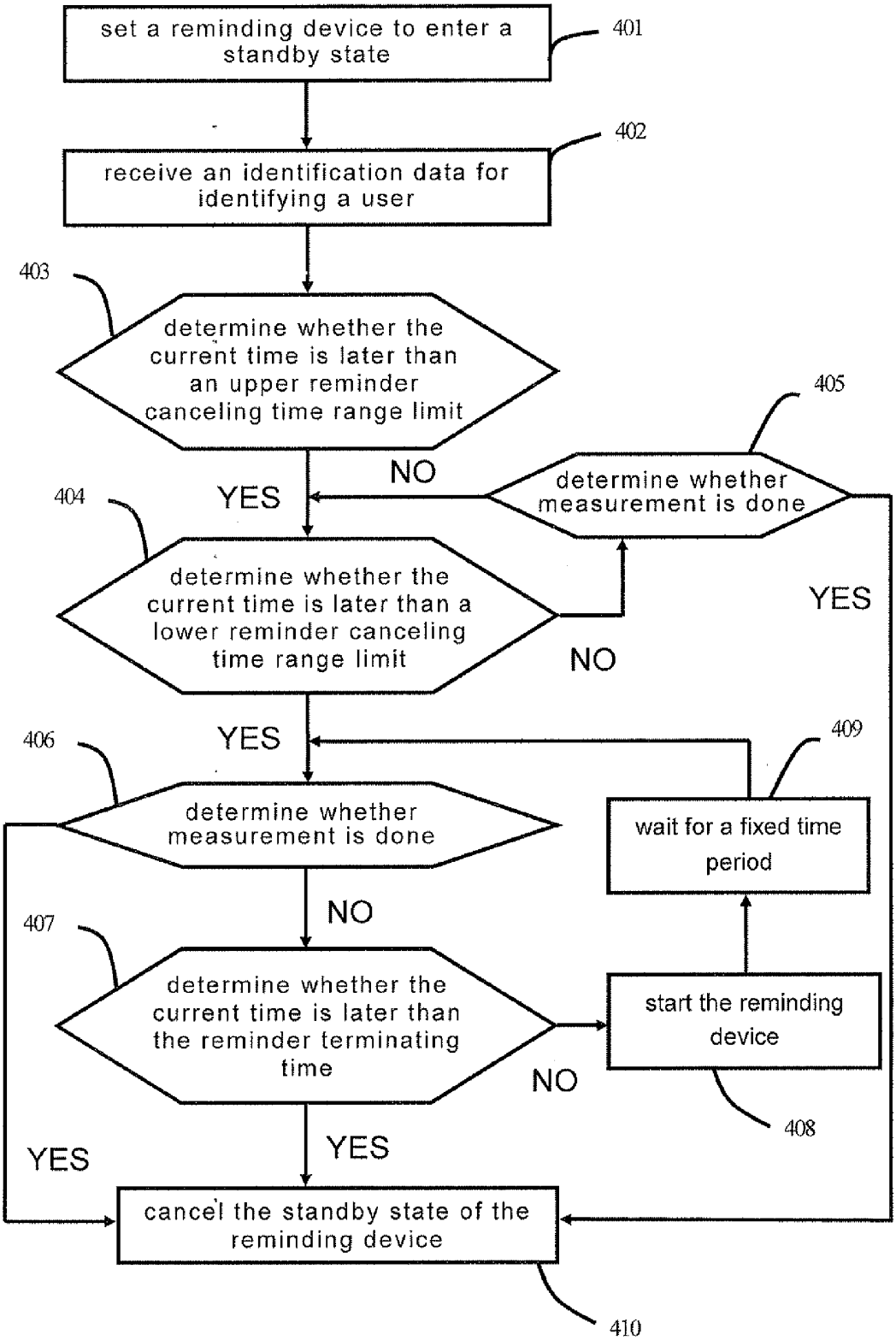

set a reminding device to enter a standby state
401
receive an identification data for identifying a user
402
403
determine whether the current time is later than an upper reminder canceling time range limit
YES
NO
405
determine whether measurement is done
404
determine whether the current time is later than a lower reminder canceling time range limit
NO
YES
YES
406
determine whether measurement is done
409
wait for a fixed time period
NO
407
determine whether the current time is later than the reminder terminating time
NO
start the reminding device
408
YES
YES
cancel the standby state of the reminding device
410

FIG.4

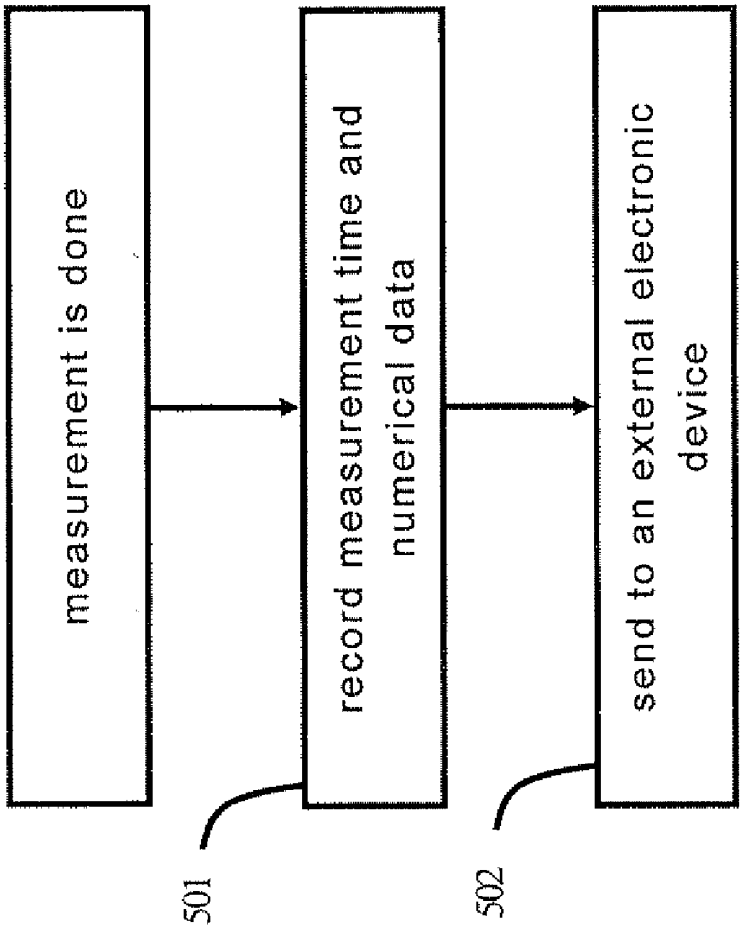

measurement is done
record measurement time and numerical data
send to an external electronic device
501
502

FIG.5

measurement-related time 71	9:20
preset reminder starting time 72	8:45
reminder canceling time range 73	90 minutes
upper reminder canceling time range limit 74	8:00
lower reminder canceling time range limit 75	9:30
reminder terminating time 76	10:00
user identity 78	John
blood pressure level 79	118/83

FIG.6

METHOD AND APPARATUS FOR MEASURING A HUMAN PHYSIOLOGICAL SIGNAL

BACKGROUND OF THE INVENTION

[0001] 1. Field of the Invention

[0002] The present invention relates to a method for measuring a human physiological signal, and more particularly, to a method for measuring a human physiological signal to remind a user according to whether a measurement-related time falls within a reminder canceling time range.

[0003] 2. Description of the Prior Art

[0004] In modern society, due to medical advancements, people today are attaching increasingly greater importance to personal health and thus often need to measure human physiological signals related to blood pressure, blood sugar, body fat, etc. However, people often forget to undertake the aforesaid measurement tasks for various reasons, such as being busy working. At present, related commercially available apparatuses are equipped mostly with a reminding device for reminding a user to undertake measurement tasks. The reminding devices each usually comprise a mechanism of an alarm clock for giving a reminder to the user as soon as a preset time period expires. However, measurement of a human physiological signal does not necessarily take place at a specific point in time. Hence, the aforesaid way of setting is likely to cause annoyance to the user and thus requires improvement.

[0005] Accordingly, the present invention provides a method and apparatus for measuring a human physiological signal with a view to overcoming the drawbacks of the prior art by setting a reminder time range based on a typical user's habits.

SUMMARY OF THE INVENTION

[0006] It is a primary objective of the present invention to provide a method for measuring a human physiological signal, the method being for use with an apparatus for measuring a human physiological signal, the apparatus comprising a reminding device.

[0007] Another primary objective of the present invention is to provide an apparatus for measuring a human physiological signal by allowing a user to measure a human physiological signal.

[0008] In order to achieve the above and other objectives, the present invention provides a method for measuring a human physiological signal. The method comprises the steps of: receiving a reminder canceling time range; measuring a physiological signal with the human physiological signal measuring apparatus; and determining whether a measurement-related time for measuring the physiological signal falls within the reminder canceling time range, followed by releasing the reminding device in response to an affirmative determination.

[0009] The apparatus for measuring a human physiological signal according to the present invention comprises a receiving module, a measuring module, a reminding device, a clock device, a controlling module, and a memory. The receiving module receives a reminder canceling time range. The measuring module measures a physiological signal. The reminding device reminds a user to measure a physiological signal. The clock device provides a measurement-related time for measuring a physiological signal. The memory stores the reminder canceling time range. The controlling module is electrically connected with and adapted to control the receiving module, the measuring module, the reminding device, the clock device, and the memory for determining whether a measurement-related time falls within a reminder canceling time range and releasing the reminding device in response to an affirmative determination.

BRIEF DESCRIPTION OF THE DRAWINGS

[0010] FIGS. **1**(A), **1**(B), and **1**(C) are schematic views of an environment where an apparatus for measuring a human physiological signal operates according to the present invention;

[0011] FIG. **2** is a schematic view of the apparatus for measuring a human physiological signal according to the present invention;

[0012] FIG. **3** is a flowchart of setting a reminder canceling time range according to the present invention;

[0013] FIG. **4** is a flowchart of determining whether to release a reminding device according to the present invention;

[0014] FIG. **5** is a flowchart of recording and transmitting related numerical data according to the present invention; and

[0015] FIG. **6** is a table of set times in a specific embodiment according to the present invention.

DETAILED DESCRIPTION OF THE EMBODIMENTS

[0016] To enable persons skilled in the art to gain insight into the technical contents of the present invention, the present invention is hereunder illustrated with preferred embodiments and accompanying drawings.

[0017] Please referring to FIG. **1**(A), FIG. **1**(B) and FIG. **1**(C), in which are shown schematic views of an environment where an apparatus for measuring a human physiological signal operates according to the present invention. As shown in FIG. **1**(A), a human physiological signal measuring apparatus **1** of the present invention is connected to an external electronic device **90** for allowing a user **80** to set a time for measuring a physiological signal and to set a reminding device by means of the external electronic device **90**. Upon completion of the setting process, the user **80** can use the human physiological signal measuring apparatus **1** to measure a physiological signal. In an embodiment of the present invention, although the external electronic device **90** is a personal computer, the disclosure of the present invention is not limited thereto; instead, it is feasible to set the time by means of a PDA or a smart phone.

[0018] The application of the human physiological signal measuring apparatus **1** of the present invention is not limited to being connected with the external electronic device **90**. Referring to FIG. **1**(B), the user **80** can also set the human physiological signal measuring apparatus **1** of the present invention directly, without involving the external electronic device **90**. Referring to FIG. **1**(C), the application of the human physiological signal measuring apparatus **1** is not limited to one person only; instead, it is also feasible for multiple different users; such as the user **80** and a user **80***a*, to operate the external electronic device **90** and an external electronic device **90***a*, respectively, for setting different measurement times as needed.

[0019] Please refer to FIG. **2**, in which is shown a schematic view of the apparatus for measuring a human physiological signal according to the present invention. The human physi-

ological signal measuring apparatus **1** of the present invention is connected to the external electronic device **90** and comprises a receiving module **10**, a measuring module **20**, a reminding device **30**, a clock device **40**, a controlling module **50**, a memory **55**, a time setting device **60**, and a displaying device **65**. In an embodiment of the present invention, the aforesaid elements can not only come in the form of a hardware device, a software program, firmware, or a combination thereof, but also come in the form of a circuit loop or any other appropriate arrangement. If any one of the elements is implemented by software, it can be loaded on a computer-readable storage medium. Each of the elements can be self-contained; alternatively, the elements can operate in conjunction with each other. Furthermore, this embodiment is intended to be illustrative of a preferred embodiment of the present invention, and is not described in detail in terms of any possible combination of variations for the sake of brevity. However, persons skilled in the art should be able to understand that the present invention can, for the purpose of the implementation thereof, require any other more delicate conventional modules or elements. The modules or elements can be omitted or altered as needed. Any other module or element is not necessarily absent between any two of the modules.

[0020] In an embodiment of the present invention, the external electronic device **90** comprises a processor **91** and a memory **92**. A time setting program **100** is stored in the memory **92**. The user **80** operates the external electronic device **90** and executes the time setting program **100** in the memory **92** by means of the processor **91** to set the human physiological signal measuring apparatus **1**. The receiving module **10** receives a reminder canceling time range. The measuring module **20** measures a physiological signal **70**. The reminding device **30** reminds the user **80** to undertake a measurement task. The clock device **40** provides a measurement-related time for measuring the physiological signal **70**. The memory **55** stores the reminder canceling time range. The controlling module **50** is electrically connected with, and adapted to control, the receiving module **10**, the measuring module **20**, the reminding device **30**, the clock device **40**, and the memory **55** for determining whether the measurement-related time falls within the reminder canceling time range and releasing the reminding device **30** in response to an affirmative determination.

[0021] In an embodiment of the present invention, the measurement-related time is the time taken to measure a physiological signal, and the reminder canceling time range is 15 minutes to 90 minutes, though the disclosure of the present invention is not limited thereto. The human physiological signal measuring apparatus **1** further comprises the time setting device **60** for setting a preset reminder starting time or the reminder canceling time range and the displaying device **65** for displaying a measurement record. The time setting device **60** and the displaying device **65** are not indispensible to the present invention. In an embodiment of the present invention, an external electronic device sets the preset reminder starting time and the reminder canceling time range and displays a measurement record. Furthermore, the receiving module **10** further receives the preset reminder starting time and obtains the reminder canceling time range based on the preset reminder starting time, wherein the preset reminder starting time falls within the reminder canceling time range. The receiving module **10** further receives an identification data **77** and identifies a user identity based on the identification data **77**. The reminding device **30** is an audio reminding device for generating sound to remind the user **80** to undertake a measurement task, though the disclosure of the present invention is not limited thereto. Alternatively, the reminding device **30** is a light-emitting reminding device or any other type of reminding device. The physiological signal **70** is a blood pressure-related signal, an electrocardiogram-related signal, or a blood sugar-related signal. Likewise, the measuring module **20** is a blood pressure measuring module, an electrocardiogram measuring module, or a blood sugar measuring module, though the disclosure of the present invention is not limited thereto.

[0022] Please refer to FIG. **3** through FIG. **5**, in which are shown the flowcharts of a method for measuring a human physiological signal according to the present invention. Also, please refer to FIG. **2** and FIG. **6**, in which are shown diagrams of a specific embodiment of the present invention. Although the method for measuring a human physiological signal according to the present invention is illustrated with the human physiological signal measuring apparatus **1** shown in FIG. **2**, the method of the present invention is not limited to application of the human physiological signal measuring apparatus **1**.

[0023] Step **301**: receive a preset reminder starting time.

[0024] Please refer to FIG. **6**, in which is shown a table of set times in a specific embodiment according to the present invention. The user **80** operates the external electronic device **96** and executes the time setting program **100** in the memory **92** by means of the processor **91** to set a preset reminder starting time **72**. Afterward, the preset reminder starting time **72** is received by the human physiological signal measuring apparatus **1** of the present invention and stored in the memory **55**. In this embodiment, the user **80** sets the preset reminder starting time **72** to 8:45 AM.

[0025] Step **302**: set an upper reminder canceling time range limit, a lower reminder canceling time range limit, and a reminder terminating tame.

[0026] Afterward, the user **80** sets a reminder canceling time range by executing the time setting program **100**. Referring to FIG. **6**, the user **80** sets a reminder canceling time range **73** to 8:00 AM-9:30 AM, wherein the user **80** sets an upper reminder canceling time range limit **74** to 8:00 AM and a lower reminder canceling time range limit **75** to 9:30 AM. Also, the user **80** can set a reminder terminating time **76** to 10:00 AM. In this embodiment, the reminder canceling time range **73** is 90 minutes, though the disclosure of the present invention is not limited thereto. In this embodiment, the user **80** sets the reminder canceling time range **73** and the reminder terminating time **76** directly; however, the reminder canceling time range **73** and the reminder terminating time **76** can also be automatically obtained by the receiving module **10** in accordance with the preset reminder starting time **72**, not to mention that the preset reminder starting time **72** falls within the reminder canceling time range **73**.

[0027] The aforesaid step **301** and step **302** describe how the user **80** operates the external electronic device **90** and executes the time setting program **100** in the memory **92** by means of the processor **91** to set the preset reminder starting time **72**. The method for measuring a human physiological signal according to the present invention is not necessarily executed by the external electronic device **90**; instead, the user **80** can also directly use the time setting device **60** (the time is usually set by means of a hardware button or a software button, either of which operates in conjunction with the controlling module **50**; with time setting being a prior art, it is

not described in detail herein for the sake of brevity) to perform a setting operation, without using the external electronic device **90**.

[0028] Please refer to FIG. **4**, in which is shown a flowchart of determining whether to release a reminding device according to the present invention. Upon completion of setting the upper reminder canceling time range limit **74**, the lower reminder canceling time range limit **75**, and the reminder terminating time **76**, the steps below are performed.

[0029] Step **401**: set a reminding device to enter a standby state.

[0030] The reminding device **30** enters a standby state. Once the reminding device **30** enters the standby state, the reminding device **30** can start at any time. In this embodiment, the reminding device **30** is an audio reminding device, though the disclosure of the present invention is not limited thereto.

[0031] Step **402**: receive an identification data for identifying a user.

[0032] Afterward, the user **80** sends the identification data **77** to the human physiological signal measuring apparatus **1** by means of the electronic device **90** or the human physiological signal measuring apparatus **1**. Then, the identification data **77** is received by the receiving module **10** for identifying an identity of the user **80** based on the identification data **77**. Referring to FIG. **6**, in this embodiment, a user identity of the user **80** is identified as "John" by the receiving module **10** according to the identification data **77**. Since a way of identifying a user's identity is a prior art, it is not described in detail herein for the sake of brevity. In a multiple-user mode (see FIG. **1**(C)), users send their respective said identification data **77** to the human physiological signal measuring apparatus **1** by means of electronic devices, respectively, and then the identification data **77** is identified before a measurement task begins.

[0033] Step **403**; determine whether the current time is later than an upper reminder canceling time range limit.

[0034] As time passes, the controlling module **50** determines whether the current time is later than the upper reminder canceling time range limit **74**. If it is determined that the current time is later than the upper reminder canceling time range limit **74**, step **404** will begin. In this embodiment, the controlling module **50** knows the current time through the clock device **40** and determines whether the current time is later than 8:00 AM. If it is determined that the current time is later than 8:00 AM, step **404** will begin.

[0035] If it is determined that the current time is later than the upper reminder canceling time range limit, the process will go to step **404**: determine whether the current time is later than the lower reminder canceling time range limit.

[0036] If it is determined that the current time is later than the upper reminder canceling time range limit **74**, the controlling module **50** will further determine whether the current time is later than the lower reminder canceling time range limit **75**. If it is determined that the current time is later than the lower reminder canceling time range limit **75**, step **406** will begin; otherwise, step **405** will begin. In this embodiment, the controlling module **50** determines whether the current time is later than 9:30 AM. If it is determined that the current time is later than 9:30 AM, step **406** will begin; otherwise, step **405** will begin.

[0037] If it is determined that the current time is not later than the lower reminder canceling time range limit, go to step **405**: determine whether the measurement is done.

[0038] If it is determined that the current time is not later than the lower reminder canceling time range limit **75**, the controlling module **50** will further determine whether the measurement is done. If it is determined that the measurement is done, then the process will go to step **410** for canceling the standby state of the reminding device **30**; otherwise, the process will go back to step **404**. In this embodiment, the controlling module **50** is connected to the measuring module **20** for determining whether the measurement is done. If it is determined that the measurement is done before 9:30 AM, that is, the lower reminder canceling time range limit **75**, the standby state of the reminding device **30** will be canceled; otherwise, the process will go back to step **404**.

[0039] If it is determined that the current time is later than the lower reminder canceling time range limit, then the process will go to step **406**: determine whether the measurement is done.

[0040] If it is determined that the current time is later than the lower reminder canceling time range limit **75**, the controlling module **50** will determine whether the measurement is done. If it is determined that the measurement is done, step **410** will begin, thereby canceling the standby state of the reminding device **30**; otherwise, step **407** will begin. In this embodiment, the controlling module **50** is connected to the measuring module **20** for determining whether the measurement is done. If it is determined that the measurement is done, the standby state of the reminding device **30** will be canceled; otherwise, the process will go to step **407**.

[0041] If the measurement is not done, then the process will go to step **407**: determine whether the current time is later than the reminder terminating time.

[0042] If the measurement remains unfinished after the lower reminder canceling time range limit **75**, the controlling module **50** will determine whether the current time is later than the reminder terminating time **76**. If it is determined that the current time is later than the reminder terminating time **76**, step **410** will be performed; otherwise, the process will go to step **408**. In this embodiment, the controlling module **50** knows the current time through the clock device **40** and determines whether the current time is later than 10:00 AM. If it is determined that the current time is later than the reminder terminating time **76**, that is, 10:00 AM, the standby state of the reminding device **30** will be canceled; otherwise, the process will go to step **408**.

[0043] If it is determined that the current time is not later than the reminder terminating time, then the process will go to step **408**: start the reminding device.

[0044] If it is determined that the current time is not later than the reminder terminating time **76**, the controlling module **50** will start the reminding device **30**. In this embodiment, the controlling module **50** starts the audio reminding device for generating sound to remind the user **80**. In addition to starting the reminding device **30** in the human physiological signal measuring apparatus **1**, the controlling module **50** is capable of sending a signal to the electronic device **90** to start a reminding mechanism on the electronic device **90** directly, for example, generating preset sound. Furthermore, in a multiple-user mode, it is feasible to start a reminding mechanism on different electronic devices used by different users, so as to remind the users separately.

[0045] Step **409**: wait for a fixed time period.

[0046] Once the reminding device **30** starts, it will wait for a fixed time period before performing step **406** and step **407**. In this embodiment, the audio reminding device generates

sound once every one minute. During the aforesaid time period, the reminding device **30** performs step **406** and step **407** again to determine whether the measurement is done and determine whether the current time is later than the reminder terminating time **76**. If the user **80** has not finished the measurement, steps **406-409** will be repeatedly performed before the reminder terminating time **76**, that is, 10:00 AM. Once the user **80** finishes the measurement or once it is determined that the current time is later than 10:00 AM, the standby state of the audio reminding device will be canceled.

[0047] Step **410**: cancel the standby state of the reminding device.

[0048] If the user **80** has finished the measurement task, then the standby state of the reminding device **30** can be canceled. Alternatively, if the current time is later than the reminder terminating time **76**, the standby state of the reminding device **30** will be canceled even though the user **80** has not completed the measurement task.

[0049] Upon completion of the aforesaid steps of determining whether to release the reminding device, the steps below are performed (on the presumption that the user **80** has finished the measurement).

[0050] Step **501**: record measurement time and numerical data.

[0051] Upon completion of the measurement, the human physiological signal measuring apparatus **1** of the present invention further records a measurement-related time **71** and numerical data of the physiological signal **70**. Referring to FIG. **6**, in this embodiment, the physiological signal **70** is a blood pressure-related signal, and thus the human physiological signal measuring apparatus **1** records a blood pressure level **79** of the user **80**, and the measurement-related time **71**, which is the time taken to measure the physiological signal **70**, is also recorded. A point to note is that the human physiological signal measuring apparatus **1** of the present invention is not limited to a blood pressure-related signal, but may include any other physiological signals, such as an electrocardiogram-related signal or a blood sugar-related signal, nor is the measurement-related time **71** limited to the time taken to measure the physiological signal **70**.

[0052] Step **502**: send to the external electronic device.

[0053] Upon completion of the recording operation, the record is sent to the external electronic device **90**, such that the user **80** can read the record thereon, though the disclosure of the present invention is not limited thereto; instead, the user **80** can also read the record directly with the displaying device **65**.

[0054] In conclusion, the features of the present invention are completely different from those of the prior art in terms of objectives, means, and effects. However, it should be noted that the above embodiments are illustrative of the principle and effect of the present invention only, and they should not be interpreted as restrictive of the scope of the present invention. Hence, persons skilled in the art can make modifications and changes to the aforesaid embodiments without going against the technical principle and spirit of the present invention. Accordingly, the extent of legal protection for the rights claimable toward the present invention should be defined by the appended claims.

What is claimed is:

1. A method for measuring a human physiological signal, the method being for use with a human physiological signal measuring apparatus, the apparatus comprising a reminding device, the method comprising the steps of:

receiving a reminder canceling time range;

measuring a physiological signal with the human physiological signal measuring apparatus; and

determining whether a measurement-related time for measuring the physiological signal falls within the reminder canceling time range, followed by releasing the reminding device in response to an affirmative determination.

2. The method of claim **1**, wherein the reminder canceling time range is 15 minutes to 90 minutes.

3. The method of claim **1**, further comprising the step of receiving a preset reminder starting time and obtaining the reminder canceling time range based on the preset reminder starting time, wherein the preset reminder starting time falls within the reminder canceling time range.

4. The method of claims **1**, further comprising the step of receiving an identification data and identifying a user identity based on the identification data.

5. The method of claims **1**, wherein the physiological signal is one of a blood pressure-related signal, an electrocardiogram-related signal, or a blood sugar-related signal.

6. The method of claims **3**, wherein the reminder canceling time range and the preset reminder starting time are set by an external electronic device or directly by the human physiological signal measuring apparatus.

7. The method of claims **1**, wherein the measurement-related time is a time taken to measure the physiological signal.

8. The method of claims **1**, wherein the reminding device is an audio reminding device.

9. An apparatus for measuring a human physiological signal, the apparatus comprising:

a receiving module for receiving a reminder canceling time range;

a measuring module for measuring a physiological signal;

a reminding device for reminding a user to measure the physiological signal;

a clock device for providing a measurement-related time for measuring the physiological signal;

a memory for storing the reminder canceling time range;

a controlling module electrically connected with and adapted to control the receiving module, the measuring module, the reminding device, the clock device, and the memory for determining whether the measurement-related time falls within the reminder canceling time range and releasing the reminding device in response to an affirmative determination.

10. The apparatus of claim **9**, wherein the reminder canceling time range is 15 minutes to 90 minutes.

11. The apparatus of claim **9**, wherein the receiving module receives a preset reminder starting time and obtains the reminder canceling time range based on the preset reminder starting time, wherein the preset reminder starting time falls within the reminder canceling time range.

12. The apparatus of claims **9**, wherein the receiving module receives an identification data and identifies a user identity based on the identification data.

13. The apparatus of claims **9**, wherein the physiological signal is one of a blood pressure-related signal, an electrocardiogram-related signal, and a blood sugar-related signal.

14. The apparatus of claims **11**, further comprising:

a time setting device for setting the reminder canceling time range or the preset reminder starting time; and

a displaying device for displaying a measurement record.

15. The apparatus of claims **11**, wherein the reminder canceling time range and the preset reminder starting time are set by an external electronic device.

16. The apparatus of claims **9**, wherein the measurement-related time is a time taken to measure the physiological signal.

17. The apparatus of claims **9**, wherein the reminding device is an audio reminding device.

* * * * *

专利名称(译)	用于测量人体生理信号的方法和设备		
公开(公告)号	US20120302850A1	公开(公告)日	2012-11-29
申请号	US13/414833	申请日	2012-03-08
[标]申请(专利权)人(译)	纬创资通股份有限公司		
申请(专利权)人(译)	纬创资通		
当前申请(专利权)人(译)	纬创资通		
[标]发明人	LIN SHU HUNG LI CHIA HSIEN CHANG YAO TSUNG CHUNG SHUN CHI LIN PAI YANG		
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摘要(译)

一种测量人体生理信号的方法，包括：接收提醒取消时间范围;通过人体生理信号测量设备测量人体生理信号;确定用于测量生理信号的测量相关时间是否落入提醒取消时间范围内，然后响应肯定确定释放提醒装置。