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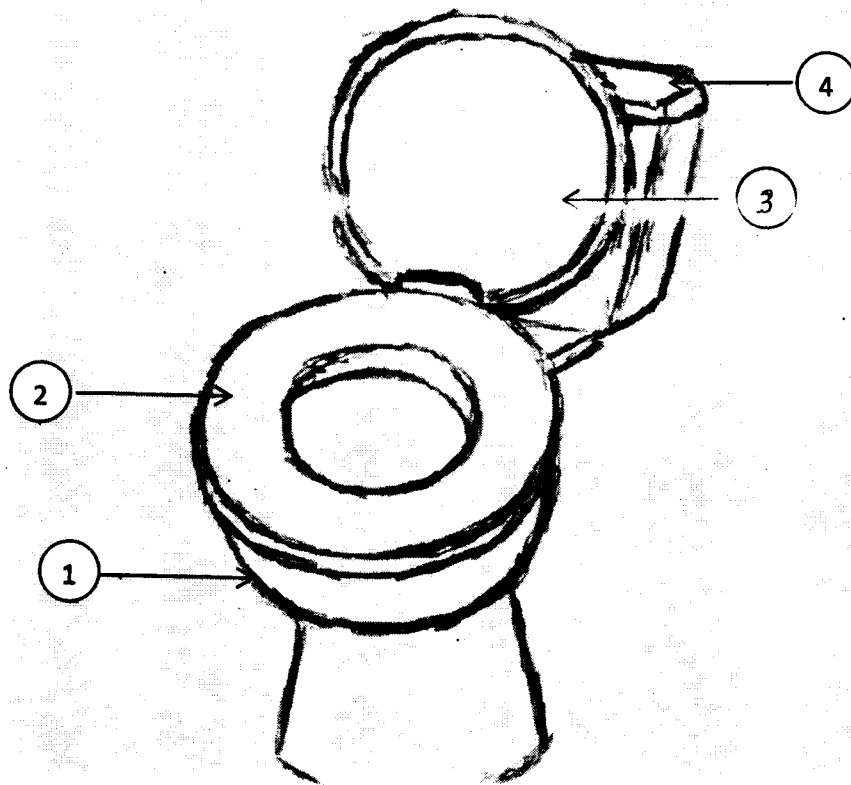
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Fig 1

Sheet No : 01

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Fig 2

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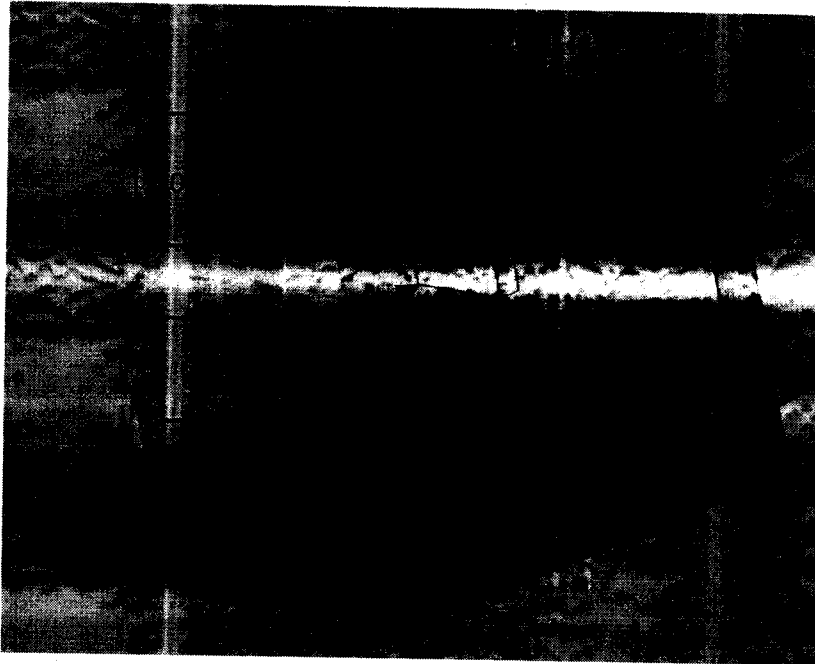


FIG 2(A)

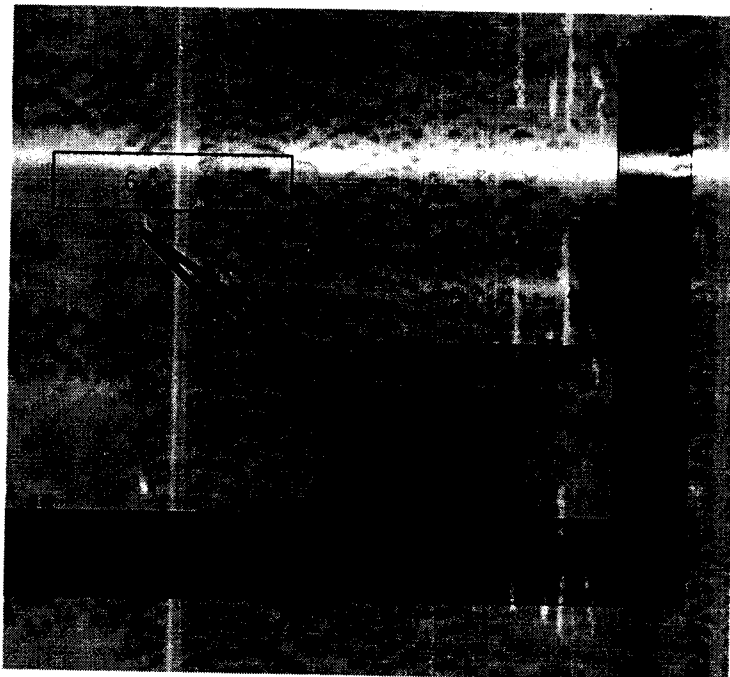


Fig 2 (B)

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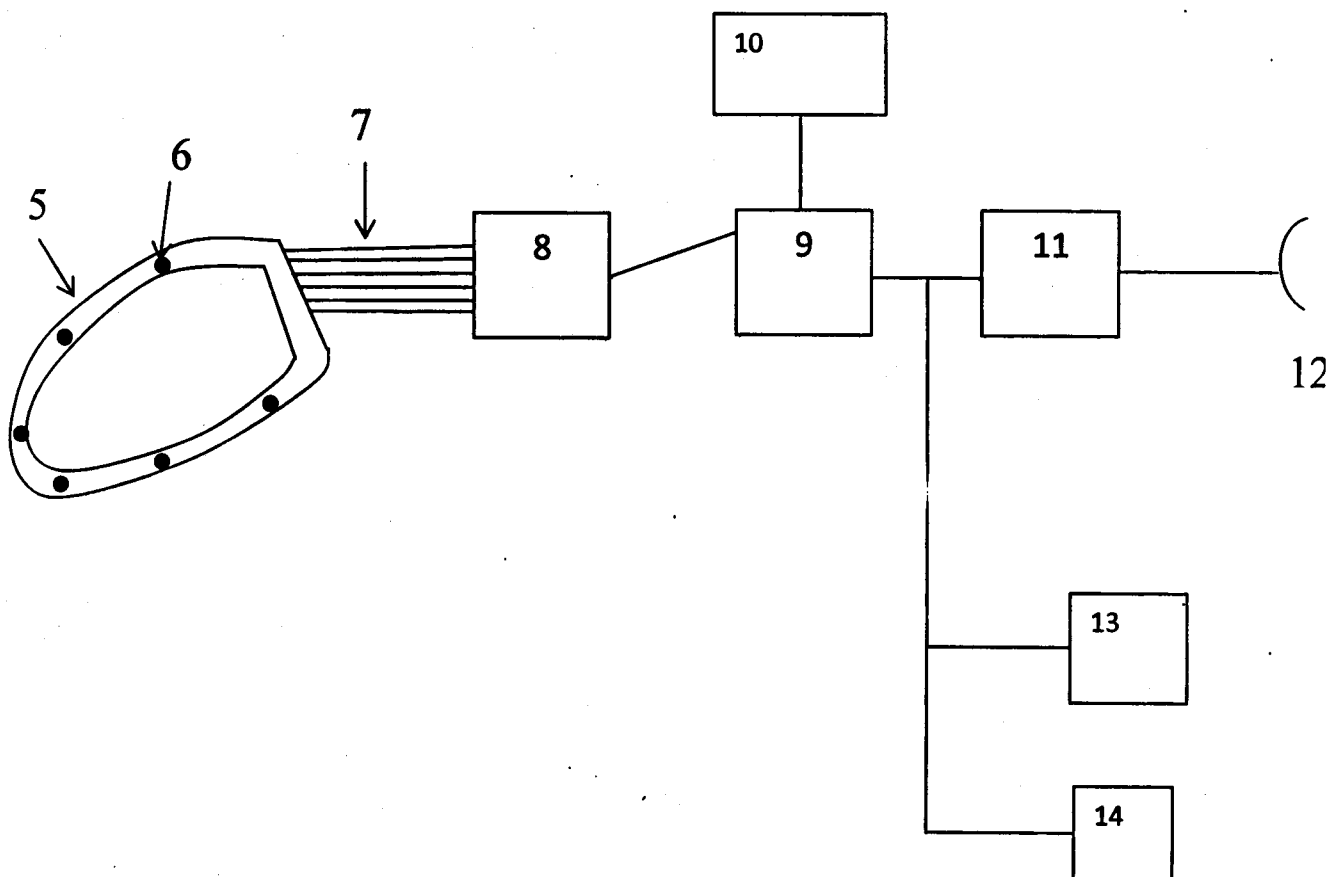
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Fig 3



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Title

**Toilet Commode seat ring for measuring ,processing ,storing ,
transmitting human body Parameters along with emergency alarms**

FIELD OF THE INVENTION

The invention deals with measuring ,processing ,storing ,transmitting vital human body parameters as and when the person uses the toilet commode seat. Invention will enable a user to measure parameters like his body weight , body temperature ,pulse rate ,blood pressure etc. It will process the parameter information by comparing with preset standard parameters and will transmit the actual and comparative data to desired destination ,say a doctor or caretaker. Invention will give an audio /visual notification for conditions ,predetermined or otherwise, which are termed as emergency or distress call.

Health of an human body is measured by measuring vital parameters of human body e.g Body weight ,pulse rate ,blood pressure, body temperature etc. Measurement of these parameters and comparison with standard parameters of normal human being is a time consuming and expensive process. Delay in taking preventive measures may aggravate the illness and may lead to death also. The present invention will enable a user to monitor his/her health by spending less time and money. The equipment shall also be capable of sending out a warning alarm to pre-decided destinations in case of any kind of emergency.

BACKGROUND OF THE INVENTION

Medical practitioners suggest a list of diagnostic tests which a person may be required to undergo after a fixed interval of time, say daily or after a week. Some of these tests include diagnostics of the following vital parameters-

- 1) Body weight
- 2) Pulse rate
- 3) Blood pressure
- 4) Body temperature

The equipment along with the capability to carry out vital diagnostics, shall also be capable of having a provision for emergency communication mechanism to convey distress call to pre decided destinations.

A number of diagnostic equipments are available in the market which carry out measurement of vital human parameters and communicate the same to the user via an interface.

The disadvantages of carrying out diagnostics with the above mentioned existing devices are:-

- Each equipment has to be purchased separately.
- Each equipment has to be used separately, and a user will have to spend a considerable amount of time from his hectic schedule to carry out the tests.

- The results communicated with the user are displayed via interface and the user has to manually note down the reading to keep a record, or for the purpose of communicating the results to his/her doctor.

Hence there is a need to provide an equipment which is capable of carrying out all vital diagnostics simultaneously, and the user may not have to spend excess time and energy carrying out the tests with separate equipments/labs.

BRIEF DESCRIPTION OF ACCOMPANYING DRAWINGS:

Further objectives and advantages of this invention will be more apparent from the ensuing description when read in conjunction with the accompanying drawings wherein:

- Fig.1 : Existing toilet seat with existing ring.
[It is made up of four main parts i.e seat(1) .
ring(2) ,seat cover(3) and cistern(4)]
- Fig. 2 : Ring with sensors , control unit and display unit.
- Fig.3 : Block diagram of complete invention.

While the invention is described in conjunction with the illustrated embodiment, it is understood that it is not intended to limit the invention to such embodiment. On the contrary, it is intended to cover all alternatives, modifications and

equivalents as may be included within the spirit and scope of the invention disclosure as defined by the claims.

Description

The embodiments of invention in fig 3 .

- 1) Various sensors(6) like weight sensors, blood pressure sensors, pulse sensors etc are placed at appropriate positions on the seating ring(5 in fig 3) of the toilet seat.
- 2) A display unit(10) shall be placed close to the toilet seat and suitably mounted. The display unit will enclose a processor and control unit(9) which will take inputs(7) from the various sensors(6) and shall be pre programmed to give meaningful output for each body vital diagnostic.
- 3) The display unit will enclose a remote communication mechanism/GPRS (11)which will transmit the diagnostic result to pre-decided remote destination using transmitter antenna (12).
- 4) The display unit(10) will have an emergency button to communicate urgency to pre-decided destinations and these are treated as distress call.
- 5) The various sensors(6) , transducer unit (8),control unit (9) and the display unit(10) are connected as shown in the figure 3.
- 6) Control unit (9) can send the information/data to Display unit (10) for immediate display for seat user, can send information/data to GPRS(11) for remote supervision by

doctor or caretaker, can send to PC(13) of Health clinic for monitoring , can send audio/visual distress signal to audio/video alarm(14) for attendents of the user.

OBJECTS OF THE INVENTION

The primary object of the invention is to design a diagnostic equipment to carry out vital human body diagnostics simultaneously and without the need to carry them with separate devices and spending excess time.

Yet another object of the invention is to provide an emergency button to communicate urgency or distress call to pre-decided destinations.

The foregoing has outlined some of the pertinent objectives of the invention. These objectives should not be construed to be merely illustrative of some of the more prominent features and applications of the intended invention. Many other beneficial results can be obtained by applying the disclosed invention in a different manner or modifying the invention within the scope of disclosure.

Accordingly, other objectives and a full understanding of the invention and the detailed description of the preferred embodiment in addition to the scope of invention are to be defined by the claims undertaken.

These and other objectives and advantages of the invention will be apparent from the ensuing description.

Various Numeric in Fig 1,2 ,3 represent the following

- | | |
|-------------------------|---------------------------|
| 1 - Toilet Seat Commode | 2-Seat ring |
| 3 - Seat cover | 4 -Cistern |
| 5- Commode Ring , | 6-Sensors |
| 7- Sensor leads, | 8- Transducer |
| 9 - Control Unit, | 10 - Display Unit |
| 11 - GPRS., | 12 -Transmitter |
| 13 - PC , | 14 - Audio /Visual Alarms |

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20/8/2014
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