AIRCUSHION BED FOR TURNING AN OBJECT LYING THEREON AUTOMATICALLY

Inventors: Hsuen-Haw Hung, Kaohsiung City (TW); Chuan-I Hung, Kaohsiung City (TW); Chiu-Ju Hung, Kaohsiung City (TW); I-Tien Hung, Kaohsiung City (TW)

Correspondence Address:
Hsuen-Haw HUNG
P. O. Box 90
Tainan City 70499 (TW)

Assignee: Hsuen-Haw HUNG

Appl. No.: 11/002,071

Filed: Dec. 3, 2004

Publication Classification

Int. Cl. A47C 27/10 (2006.01)

U.S. Cl. 8715; 5/713

ABSTRACT

An aircushion bed for turning an object lying thereon automatically comprises an A airbag; a B airbag; a plurality of A1 airbags installed adjacent the A airbag and a plurality of B1 airbags being installed adjacent the B airbag; and a plurality of stripe like A2 airbags being distributed on the A airbag and a plurality of stripe B2 airbags are distributed on the B airbag. Each of the A airbag, A1 airbags and A2 airbags is connected to a respective air tube. The first air tubes are connected to a first air inlet tube. Each of the B airbag, B1 airbags and B2 airbags is connected to a respective air tube. All the second air tubes are connected to a second air inlet tube. The first and second air inlet tubes are connected to an air pump.
BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to air cushion beds, and in particular an air cushion bed for turning an object lying thereon automatically, wherein one lying on the air cushion bed can turn his (or her) body on a side automatically by the inflation of the air cushion bed.

2. Description of the Prior Art

Generally, the current used air cushion beds are inflated so as to have comfortable feeling as one lies on the bed. However as a patient lies on the bed for a longer time, the patient needs to turn the body repeatedly so as to reduce the possibility of getting bedsores, or skin fester due to bad air ventilation. Hence it is necessary to turn the back of the patient manually. However this is inconvenient and one further person is needed to perform the work. Thereby generally, a motor is used to pump air into the air cushion bed. The motor must operate for a longer time with a great noise which will affect the patients lying on the bed. Further the operation of the motor in the bed will make the lifetime of the bed become short.

SUMMARY OF THE INVENTION

Accordingly, the primary object of the present invention is to provide an air cushion bed for turning an object lying thereon automatically, wherein one lying on the air cushion bed can turn his (or her) body on a side automatically by the inflation of the air cushion bed.

To achieve above objects, the present invention provides an air cushion bed for turning an object lying thereon automatically which comprises an A airbag; a B airbag; a plurality of A1 airbags installed adjacent the A airbag and a plurality of B1 airbags being installed adjacent the B airbag; wherein the A1 airbags and the B1 airbag are between the A airbag and B airbag; and a plurality of stripe like A2 airbags being distributed on the A airbag and a plurality of stripe like B2 airbags are distributed on the B airbag. Each of the A airbag, A1 airbags and A2 airbags are connected to a respective air tube. The first air tubes are connected to a first air inlet tube. Each of the B airbag, B1 airbags and B2 airbags is connected to a respective air tube. All the second air inlet tubes are connected to a second air inlet tube. The first and second air inlet tubes are connected to an air pump. Thereby an air cushion bed is formed.

The various objects and advantages of the present invention will be more readily understood from the following detailed description when read in conjunction with the appended drawings.

BRIEF DESCRIPTION OF DRAWINGS

FIG. 1 is a perspective view showing the inflation of the present invention at one side.

FIG. 2 is a perspective view showing the inflation of the present invention at another side.

FIG. 3 is a schematic view showing the use of the present invention.

FIG. 4 is a schematic view showing another use of the present invention, wherein another side of the present invention is inflated.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

In order that those skilled in the art can further understand the present invention, a description will be described in the following in details. However, these descriptions and the appended drawings are only used to cause those skilled in the art to understand the objects, features, and characteristics of the present invention, but not to be used to confuse the scope and spirit of the present invention defined in the appended claims.

With reference to FIG. 1, the present invention includes an A airbag 1 and a B airbag 2. A plurality of A1 airbags 10 are installed adjacent the A airbag 1 and a plurality of B1 airbags 20 are installed adjacent the B airbag 20. The A1 airbags 10 and the B1 airbags 20 are between the A airbag 1 and B airbag 2. A plurality of stripe like A2 airbags 11 are distributed on the A airbag 1 and a plurality of stripe like B2 airbags 21 are distributed on the B airbag 2. Each of the A airbag 1, A1 airbags 10 and B1 airbags 20 are connected to a respective air tube 12. The first air tubes 12 are connected to a first air inlet tube 13. Each of the B airbag 2, B1 airbags 20 and B2 airbags 21 are connected to a respective air tube 12. All the second air tubes 12 are connected to a second air inlet tube 23. The first and second air inlet tubes 13, and 23 are connected to an air pump (not shown). Thereby an air cushion bed is formed.

Referring to FIGS. 1, 2, 3 and 4, the time for turning a patient is set. When the timing for actuating air pump is set, for example, it is set that the patient body will turn every two hours. At the setting time, air pump will be actuated and operated, air is inputted to the A1 airbag 1, A1 airbags 10 and A2 airbags 11 through the first air tubes 12 from the first air inlet tube 13. When the air is inflated into the A airbag 1, the A airbag 1 will expand. Then the A2 airbag 11 will also expand. The A airbag 1 will push the patient at one side so that the patient will lie on the side. When air is inflated, the air pump will stop without noise. The back of the patient is ejected upwards so as to lie on the side to increase the blood circulation of the body. Furthermore, the A airbag 1, A1 airbags 10, A2 airbags 11 are formed with gaps 4 for air flowing successfully. Thereby the bedsores or skin fester can be prevented. When the turning time has elapsed, the A airbag 1, A1 airbags 10 and A2 airbags 11 will release air and the air pump will be actuated so that air will flow into the B airbag 2, B1 airbags 20 and B2 airbags 21 which will inflate from the second air inlet tube 23. The B airbag 2, B1 airbag 20, and B2 airbags 21 will expand. At the same time, the A airbag 1, A1 airbags 10 and A2 airbags 11 will release air slowly so that the side of the patient will move downwards and another side of the patient will move upwards so that the patient lie on another side. At this moment, the air pump will stop without any noise. However the process is repeated so that the patient turns his (or her) body repeatedly.

The present invention is thus described, and it will be obvious that the same may be varied in many ways. Such variations are not to be regarded as a departure from the spirit and scope of the present invention, and all such
modifications as would be obvious to one skilled in the art are intended to be included within the scope of the following claims.

What is claimed is:

1. An aircushion bed for turning an object lying thereon automatically comprising:
   an A airbag;
   a B airbag;
   a plurality of A1 airbags installed adjacent the A airbag and a plurality of B1 airbags installed adjacent the B airbag; wherein the A1 airbags and the B1 airbag are installed between the A airbag and the B airbag;
   a plurality of stripe like A2 airbags being distributed on the A airbag and a plurality of strip like B2 airbags are distributed on the B airbag;

wherein each of the A airbag, A1 airbags and A2 airbags are connected to a respective first air tube; all the first air tubes are connected to a first air inlet tube; each of the B1 airbag, B1 airbags and B2 airbags are connected to a respective second air tube; all the second air tubes are connected to a second air inlet tube; the first and second air inlets tubes are connected to an air pump; thereby an aircushion bed is formed.

* * * * *