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Published:

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(54) Title: HAND CONTROL OF A POSITIONING HOSPITAL BED

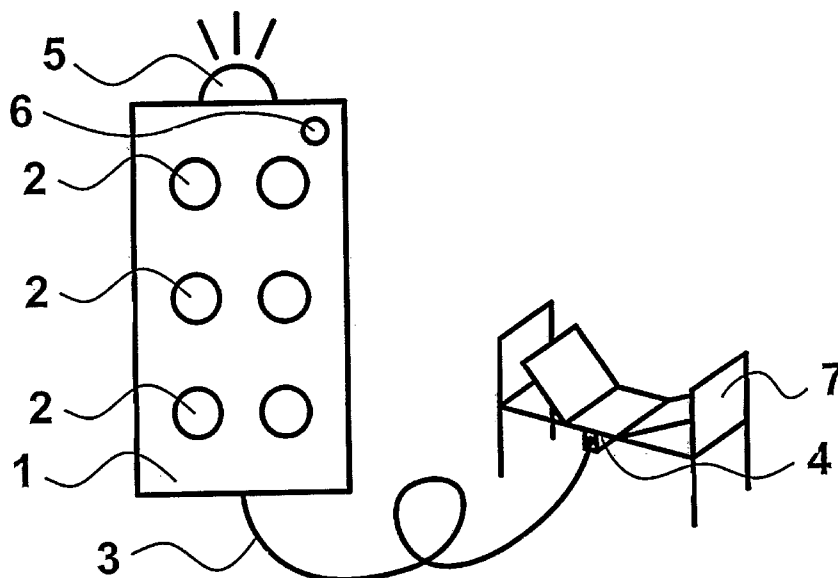


Fig. 1

(57) Abstract: A hand control of a positioning hospital bed comprising a housing (1) on the top side of which there are control buttons (2) of the functions of the bed while the housing (1) is interconnected at its one end with a control unit (4) with the use of an electric cable (3), characterized by the fact that the housing (1) is, at the opposite end to the connection of the electric cable (3), equipped with a source of light (5) in the visible part of the spectrum while the source of light (5) is activated with a switch (6) arranged on the top side of the housing (1).

Hand control of a positioning hospital bed

Technical Field

The invention relates to a hand control of a positioning hospital bed comprising a housing on the top side of which there are control buttons of the functions of the bed while the housing is interconnected at its one end with the control unit with the use of an electric cable.

Background Art

Known positioning hospital beds with electric drive are controlled with the use of a hand control that is interconnected with the control unit of the electric motors through an electric cable.

During the treatment of a patient on such a bed high-quality lighting is also important besides setting of the optimum position for the particular activity. Common luminaires used in hospital rooms, however, do not provide optimum lighting of the examined area even in case of some routine examinations (throat examination, iris checks, etc.).

Another problem arises at night in rooms with more beds, where the use of common luminaires disturbs the other patients.

In the above mentioned cases a commonly known portable battery torch with a relatively low power, but with the possibility of exact directing of the luminous flux would be sufficient.

However, the use of free portable torches has not proved to be ideal in practice as for various reasons (discharged batteries, removal to another place, theft, etc.) it was impossible to guarantee that a torch will be available for a particular bed when it is needed.

Disclosure of Invention

The above mentioned problem is solved by a hand control of a positioning hospital bed comprising a housing on the top side of which there are control buttons of the functions of the bed while the housing is interconnected at its one end with the control unit with the use of an electric cable in accordance with the invention the principle of which is that the housing is, at the opposite end to the connection of the electric cable, equipped with a source of light in the visible part of the spectrum while the source of light is activated with a switch arranged on the top side of the housing.

Such a control is always available in a well accessible place both for the patient and for the nursing staff. Thus it is guaranteed that a functional torch is always available in the same place at the hospital bed both for lighting of the examined area and checking and nursing activities at night, when it is not necessary to switch on the common lighting in the hospital room. The connection of the control to the bed with an electric cable ensures continuous power supply, which means that there is no need to check the charging status of the battery.

In advantageous embodiments the source of light is a bulb or a light emitting diode (LED).

Brief Description of Drawings

The hand control of a positioning hospital bed in accordance with the invention will be described in a more detailed way with the use of a particular sample embodiment, presented schematically in the attached fig. 1.

Modes for Carrying Out the Invention

Fig. 1 shows a positioning hospital bed 7 with a hand control for setting the positions. The hand control is interconnected with an electric cable 3 with the control unit 4 installed on the bed 7 and controlling electric motors that are not shown here.

The hand control consists of a housing 1 on the top side of which control buttons 2 of the functions of the bed are arranged.

The electric cable 3 is connected to the rear end of the housing 1 and on the opposite - front end of the housing 1 a source of light 5 is installed.

The source of light 5 can be any known means emitting light in the visible part of the spectrum, e.g. a LED or a light bulb.

The source of light 5 is switched on and off with the switch 6 installed on the top side of the housing 1.

CLAIMS

1. A hand control of a positioning hospital bed comprising a housing (1) on the top side of which there are control buttons (2) of the functions of the bed while the housing (1) is interconnected at its one end with a control unit (4) with the use of an electric cable (3), **characterized in that** the housing (1) is, at the opposite end to the connection of the electric cable (3), equipped with a source of light (5) in the visible part of the spectrum while the source of light (5) is activated with a switch (6) arranged on the top side of the housing (1).
2. The hand control in accordance with claim 1, **characterized in that** the source of light (5) in the visible part of the spectrum is a light bulb.
3. The hand control in accordance with claim 1, **characterized in that** the source of light (5) in the visible part of the spectrum is a light emitting diode (LED).

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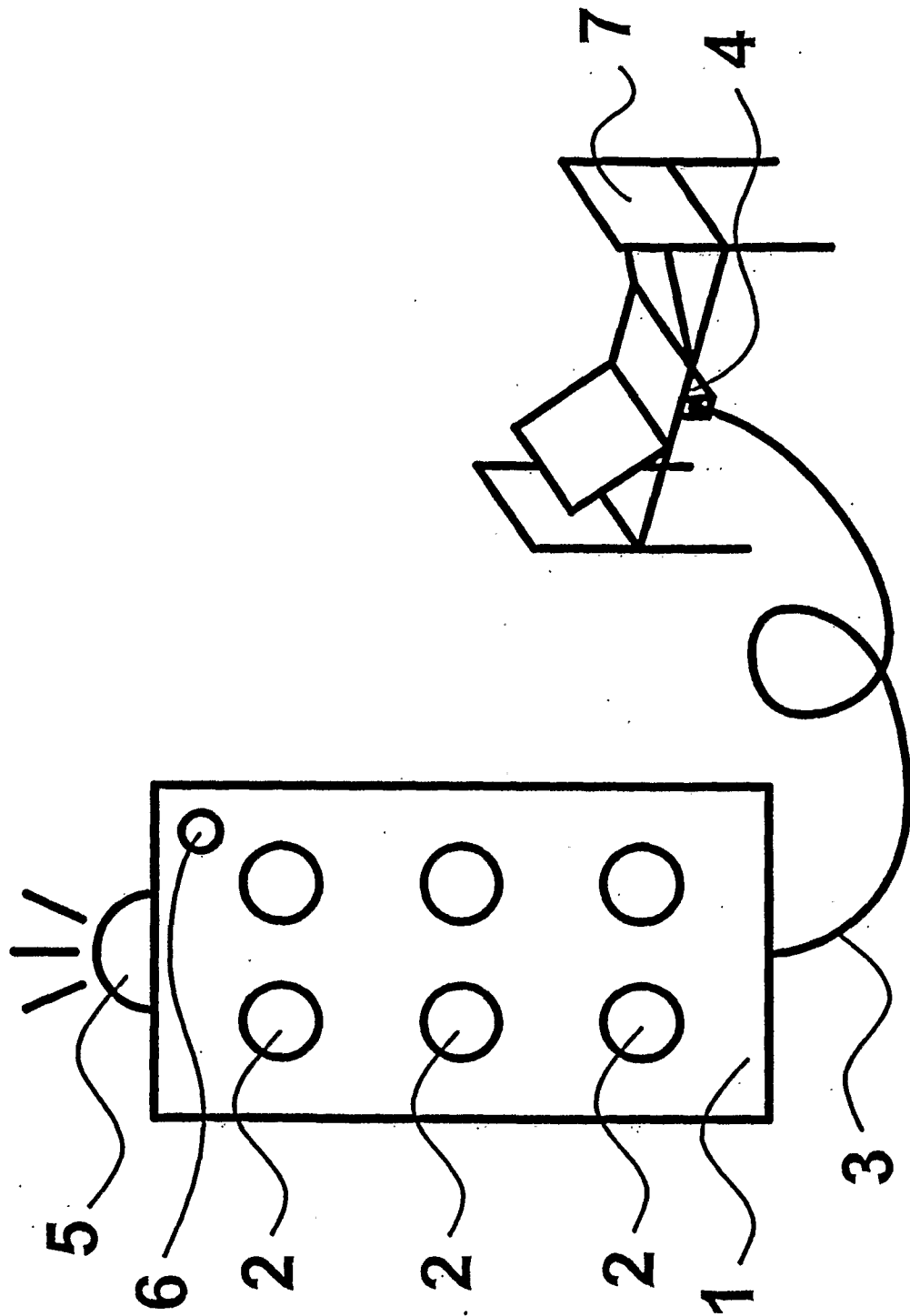


Fig. 1

INTERNATIONAL SEARCH REPORT

International application No

PCT/CZ2009/000044

A. CLASSIFICATION OF SUBJECT MATTER

INV. A61G7/018

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A61G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99/52487 A (HILL ROM CO INC [US]; MOSTER JEFFREY A [US]; ZERHUSEN ROBERT M [US]; H) 21 October 1999 (1999-10-21) figures 6,7 page 5, lines 3-6 -----	1-3
Y	DE 20 2007 001294 U1 (THEN DIETMAR [DE]) 12 July 2007 (2007-07-12) claims 1,2 -----	1-3
Y	DE 93 14 724 U1 (MEDICAL GMBH MEDIZINTECHNIK [DE]) 23 December 1993 (1993-12-23) figure 1 -----	1-3
A	FR 2 849 583 A (CREATIONS ANDRE RENAULT [FR]) 9 July 2004 (2004-07-09) figure 1 -----	1



Further documents are listed in the continuation of Box C.



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T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

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Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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