

12 **EUROPEAN PATENT APPLICATION**

21 Application number: 81105509.4

51 Int. Cl.³: **A 61 G 7/04**
A 47 C 21/04

22 Date of filing: 14.07.81

43 Date of publication of application:
19.01.83 Bulletin 83/3

84 Designated Contracting States:
AT BE CH DE FR GB LI LU NL SE

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54 **Bed with programmable temperature compartment.**

57 A device for use during epidermic and depth treatments on the human body as well as during post-operative care, consisting of a couch (1) on which a box-like covering and continuous structure (4) is fitted so as to provide a closed space equipped with temperature conditioning means (9) adapted to the requirements of the human body, which device can be used on areas of the body which are bare or not covered by blankets. The inner space is limited by a transversally arranged curtain (4) hung at the upper end (6) of the inside of the structure, the bottom of which rests on the surface of the couch, against the lower end of the pillow. In this way, the patient will have his head exposed, whilst the rest of the body will be contained in the temperature-controlled space.

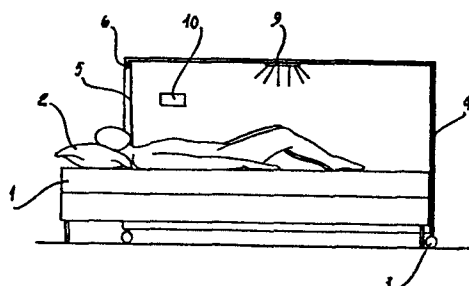


FIG. 1

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"Bed with programmable temperature compartment!"

The invention refers to a couch partially contained in a continuous box structure fit for determining a compartment equipped with temperature conditioning means according to the human body requirements. This permits to lodge the body without garments.

The inside space fit for maintaining the programmed ambient conditions is barred by a transversally disposed curtain which, hanging from the structure top, at the inner compartment limit, sinks on the couch in correspondence to the inside pillow limit.

The lying person will thus have his head in contact with the outer room and the body contained in a conditionable ambient. The apparatus allows employ particularities in epidermic as well as depth treatments of the human body and in the postoperative courses.

As a bed conventional employ, the invention permits to exclude the employ of blankets, thus permitting rest and movements to members completely relaxed since not loaded with weights and fastenings. When the human body is lying, its temperature tends to sink, and an emission of its energy outwards can be noted by means of thermic exchange.

To allow the maintenance of the human body temperature, blankets are used which operate for retaining the body heat, while the he

25 ad remains in contact with the outside ambient. This exigency
of maintaining the head at a temperature generally not corre-
sponding to the one foreseen for the body is particularly no-
ticed in the epidermic and depth treatments and in postopera-
tive courses, where an ambient to quickly condition according
30 to the operative exigencies is specifically required.

If the building conditions should be conditioned to the opera-
tive requirements, a waste of energy would be caused, a room du-
ly prepared to this purpose should be required and heavy dis-
35 comfort would arise to the lying person.

The invention permits the solution of these problems by adop-
ting a device which substantially allows to the lying person
to keep his head in the building ambient, while his body is in
40 another space suited to the different requirements of employ-
ment from the part of the operator himself or of third persons em-
ployed for the treatments.

This is possible thanks to the fact that a box continuous stru-
45 cture is used, partially laid on the couch to form a lodging co-
mpartment for the human body, delimited by a preclusion curtain
transversally fitted, while the head remains in contact with the
outer room. This compartment is accessible from the box wall by
means of a door to operate in different ways. The compartment is
50 foreseen equipped with conditioning devices of different kinds
and forms according to the treatments to carry out.

An execution form is illustrated by the drawings of Table 1, whe-
re Fig. 1 is the view of the device longitudinal section showing
55 the couch on which an undressed human body is lying in conventi-
onal rest position, with the head leaning on the cushion, and pre-
clusion the inner space obtained by means of the curtain which
if drawn down closes the ambient in correspondence to the cushi-

on inner side. Fig. 2 is the view of two components separated:
60 the couch with cushion and the box apparatus. Fig. 3 is the pro-
spective view of the device showing the head of the lying per-
son resting on the cushion and the access door. According to
the version, the apparatus includes couch 1 with cushion 2, on
which box 4 is brought by means of movement on rolls 3. The in-
65 ner space preclusion is performed by curtain 5 fitted on guid-
es 6. The access to the couch is possible through door 7 slid-
ing sideways on guide 8. For the adjustment of the inside amb-
ient, conditioner 9 is foreseen with inside (10) and outside
(11) control boards. Practically, the form of the components,
70 of the different devices, of the accessories and everything el-
se in order may be differently carried out.

CLAIMS:

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1) Bed with programmable temperature compartment, characterized by the fact that a device is foreseen which substantially permits to the lying person to keep the head in the building room, while his body lies in another ambient that can be pre-arranged according to the different requirements of employ by the same operator or by third persons employed in the treatments. This is feasible because a box continuous structure is used which is partially laid on the couch to form a lodgement for a human body delimited by a preclusion curtain transversally fitted, while the head remains in contact with the outer room.

2) Bed with programmable temperature compartment, according to the above claim, characterized by the fact that this compartment is accessible from the box wall through a differently operated door.

3) Bed with programmable temperature compartment, according to the above claims, characterized by the fact that the compartment is foreseen to be equipped with conditioning device of different kind and form according to the treatments to carry out.

4) Bed with programmable temperature compartment, according to the above claims, characterized by the fact that the device includes couch 1 with cushion 2 on which box 4 is brought by means of movement on rolls 3.

5) Bed with programmable temperature compartment, according to the above claims, characterized by the fact that the inner space preclusion is carried out by curtain 5 fitted on guides 6.

6) Bed with programmable temperature compartment, according to the above claims, characterized by the fact that the access to the couch is possible through door 7 gliding on guide 8.

15 7)Bed with programmable temperature compartment,according to
the above claims,characterized by tha fact that conditioner 9,
with inner (10) and outer(11) control boards,is foreseen for the
adaptation of the inside ambient.

10 8)Execution form as described and illustrated by drawings of Table
le 1.

On behalf.

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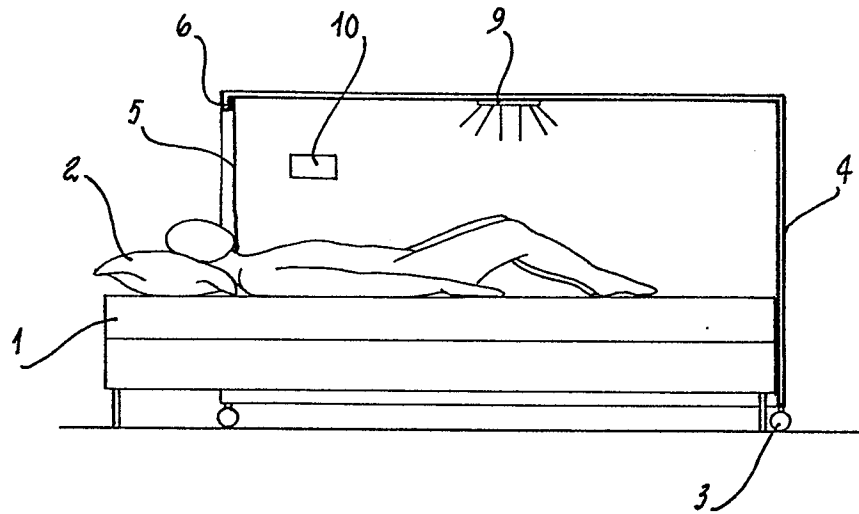


FIG. 1

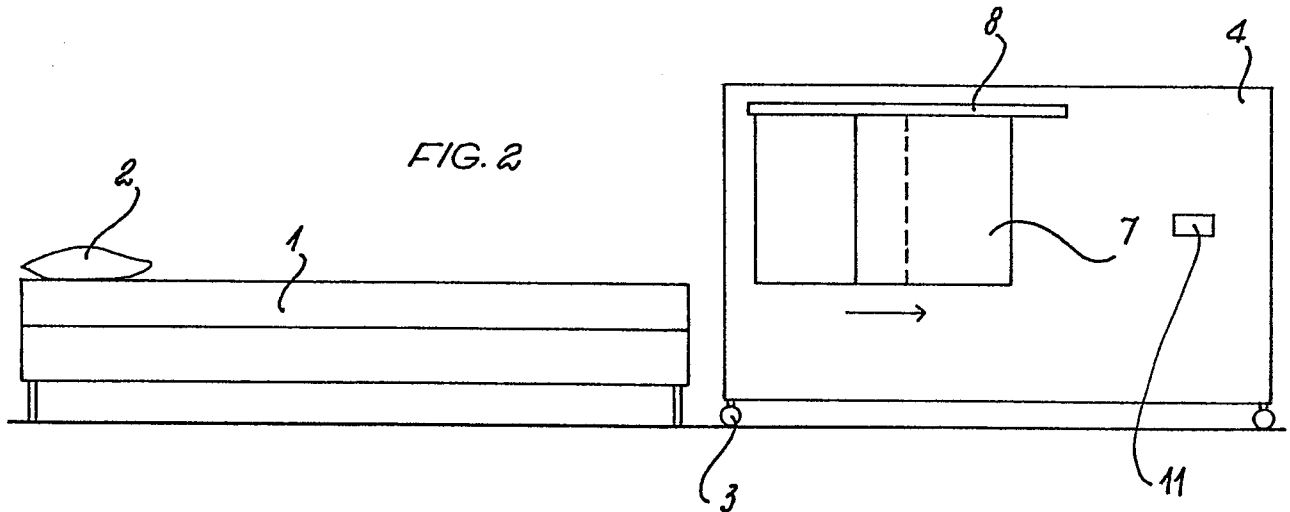


FIG. 2

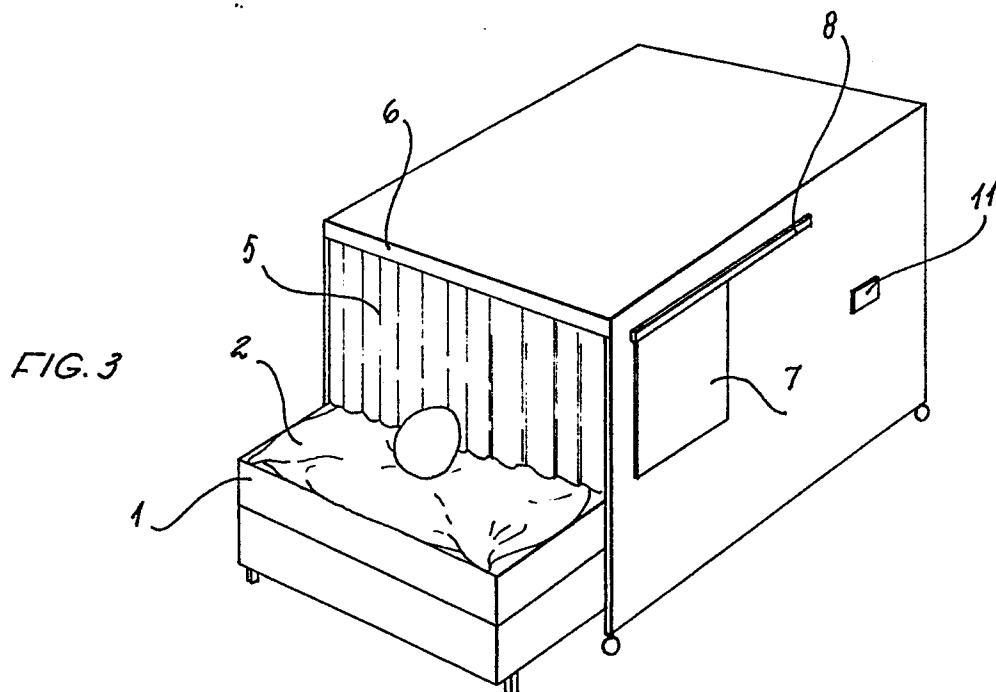


FIG. 3



European Patent
Office

EUROPEAN SEARCH REPORT

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Application number

EP 81 10 5509

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. 3)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	FR - A - 2 226 980 (HOWORTH) * Page 1, lines 31-37; page 2, lines 20-37; page 3, lines 6-33; figures 1-4;	1-5	A 61 G 7/04 A 47 C 21/04
Y	page 3, lines 2-5 *	6	
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X	GB - A - 1 311 461 (T.P. JONES) * Page 1, lines 28-36; page 2, lines 36-109; page 3, lines 8-54; figures 1,2;	1-3,5	
Y	page 2, lines 110-130; page 3, lines 1-7 *	7	TECHNICAL FIELDS SEARCHED (Int.Cl. 3)
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A	US - A - 3 100 900 (SIDEBOTHAM) * Column 1, lines 33-71; column 3, lines 7-15;	2,3	A 61 G A 47 C
Y	column 2, lines 13-57; column 3, lines 3-6; figures 1,1a,3,4,7, 8 *	6,7	

			CATEGORY OF CITED DOCUMENTS
			X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons
			&: member of the same patent family, corresponding document
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
The Hague	29-03-1982	MAROSCIA	