



(51) International Patent Classification:
A61H 1/02 (2006.01)

(21) International Application Number:
PCT/TR2014/000529

(22) International Filing Date:
30 December 2014 (30.12.2014)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2013/15550 31 December 2013 (31.12.2013) TR

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AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY,
BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR,
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SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ,
TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU,
TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE,
DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU,
LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK,
SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, KM, ML, MR, NE, SN, TD, TG).

Published:

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM, — with international search report (Art. 21(3))

[Continued on next page]

(54) Title: BACKACHE TREATMENT CHAIR

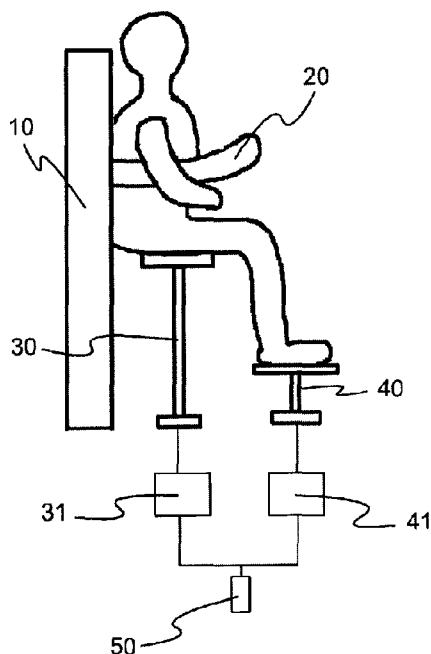


Figure 1

(57) Abstract: The present invention is a treatment chair for the treatment of backache, characterized by comprising at least one back support section (10) whereon the patient leans back, at least two carrier arms (20) extending outwardly in the horizontal plane from said back support section (10) and passing through the arm pits of the patient, at least one seat (30) whereon the patient can sit at the vicinity of the back support section (10) and providing the patient to be suspended on said carrier arms (20) by means of moving downwardly, and at least one foot support section (40) whereon the patient presses at the vicinity of said seat (30) and pushing the knees of the patient towards the body by means of moving upwardly.



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SPECIFICATION**BACKACHE TREATMENT CHAIR****5 TECHNICAL FIELD**

The present invention relates to a treatment chair for providing treatment of patients suffering from backache.

10 PRIOR ART

The basic reason of backaches is the spinal cord disorders. In order to provide treatment to this disease also called herniated disc, a method called drawing waist is used. In order to realize the waist drawing treatment, in hospitals, the patient is laid on a horizontal or inclined
15 table in physical treatment units. Afterwards, the patient is drawn through belts connected to the waist and chest thereof, and the clearance between the vertebra of the patient is increased, and the hernia is placed to the own location thereof. This method can only be applied in hospitals with the accompanying of therapists.

20 In the application with reference US4896659, a treatment tool is disclosed where the patient is suspended by means of a hanger passed from the waist of the patient, and the clearance between the vertebra of the patient is tried to be increased.

BRIEF DESCRIPTION OF THE INVENTION

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The present invention relates to a treatment chair, for eliminating the above mentioned disadvantages and for bringing new advantages to the related technical field.

30

The main object of the present invention is to provide a treatment chair for treating of backaches resulting from spinal cord.

35

In order to realize all of the abovementioned objects and the objects which are to be deducted from the detailed description below, the present invention is a treatment chair for the treatment of backache. Accordingly, the present invention is characterized by comprising
at least one back support section whereon the patient leans back, at least two carrier arms
extending outwardly in the horizontal plane from said back support section and passing
through the arm pits of the patient, at least one seat whereon the patient can sit at the vicinity

of the back support section and providing the patient to be suspended on said carrier arms by means of moving downwardly, and at least one foot support section whereon the patient presses at the vicinity of said seat and pushing the knees of the patient towards the body thereof by means of moving upwardly.

5

In a preferred embodiment of the subject matter invention, there is at least one seat motor connected to the seat in order to provide upward downward movement of the seat.

10 In another preferred embodiment of the subject matter invention, there is at least one foot support motor in order to provide upward downward movement of the foot support.

In another preferred embodiment of the subject matter invention, there is at least one control unit connected to said seat motor and said foot support motor.

15 BRIEF DESCRIPTION OF THE FIGURES

In Figure 1 and 2, the representative views of the subject matter treatment chair are given.

REFERENCE NUMBERS

20

10 Back support section

20 Carrier arm

30 Seat

31 Seat motor

25 40 Foot support

41 Foot support motor

50 Control unit

THE DETAILED DESCRIPTION OF THE INVENTION

30

In this detailed description, the subject matter treatment chair is explained with references to examples without forming any restrictive effect only in order to make the subject more understandable.

35 As can be seen in Figure 1 and 2, the subject matter treatment chair comprises a seat (30), a back support section (10) and a foot support (40). Said back support section (10) is fixed to the floor. There are at least two carrier arms (20) extending outwardly in the horizontal plane through the back support section (10). The height of the seat (30) provided in the vicinity of

the back support section (10) can be changed. In order to change the height of the seat (30), there are at least one seat motor (31) and at least one control unit (50) connected to the seat (30). When the patient sits on the seat, said carrier arms (20) remain at the arm pits of the patient. Said foot support (40) is positioned at the vicinity of the seat (30). The height of the foot support (40) is adjustable. There is at least one foot support motor (41) in order to adjust the height of the foot support (40). Moreover, said foot support motor (41) is connected to said control unit (50). While the patient sits on the seat, the foot support (40) remains under the feet of the patient.

During the use of the subject matter treatment chair, first of all, the patient sits on the seat (30) such that the carrier arms (20) correspond to the arm pits, and leans against the back support section (10). Meanwhile, the patient presses on the foot support (40) by means of his/her feet. Afterwards, command is given to the seat motor (31) and to the foot support motor (41) by means of the control unit (50), and the seat (30) is lowered, and thereby the foot support (40) is raised. As the seat (30) is lowered, the patient is suspended on the carrier arms (20) through the arm pits thereof. Meanwhile, the upward movement of the foot support (40) provides the upward movement of the knees of the patient such that the knees approach to the body of the patient. By means of joining these two movements, the clearance between the vertebra of the patient is increased by means of the own weight of the patient, and the hernia is placed to the correct location thereof. After the patient remains in this position sufficiently, and command is given to the seat motor (31) and to the foot support motor (41) by means of the control unit (50), and thereby the seat (30) and the foot support (40) return to the beginning position thereof. Thus, the patient can comfortably get up from the treatment chair.

Thanks to said embodiments, the patient can use the treatment chair in a stand-alone manner when required. Moreover, thanks to its simple and modular structure, the treatment chair can be easily carried and it can be used in any desired location.

The protection scope of the present invention is set forth in the annexed Claims and cannot be restricted to the illustrative disclosures given above, under the detailed description. It is because a person skilled in the relevant art can obviously produce similar embodiments under the light of the foregoing disclosures, without departing from the main principles of the present invention.

CLAIMS

1. A treatment chair for the treatment of backache, **characterized** by comprising at least one back support section (10) whereon the patient leans back, at least two carrier arms (20) extending outwardly in the horizontal plane from said back support section (10) and passing through the arm pits of the patient, at least one seat (30) whereon the patient can sit at the vicinity of the back support section (10) and providing the patient to be suspended on said carrier arms (20) by means of moving downwardly, and at least one foot support section (40) whereon the patient presses at the vicinity of said seat (30) and pushing the knees of the patient towards the body thereof by means of moving upwardly.
2. A treatment chair according to Claim 1, **characterized** by comprising at least one seat motor (31) connected to the seat (30) in order to provide upward downward movement of the seat (30).
3. A treatment chair according to Claim 1, **characterized** by comprising at least one foot support motor (41) in order to provide upward downward movement of the foot support (40).
4. A treatment chair according to Claim 3, **characterized** by comprising at least one control unit (50) connected to said seat motor (31) and said foot support motor (41).

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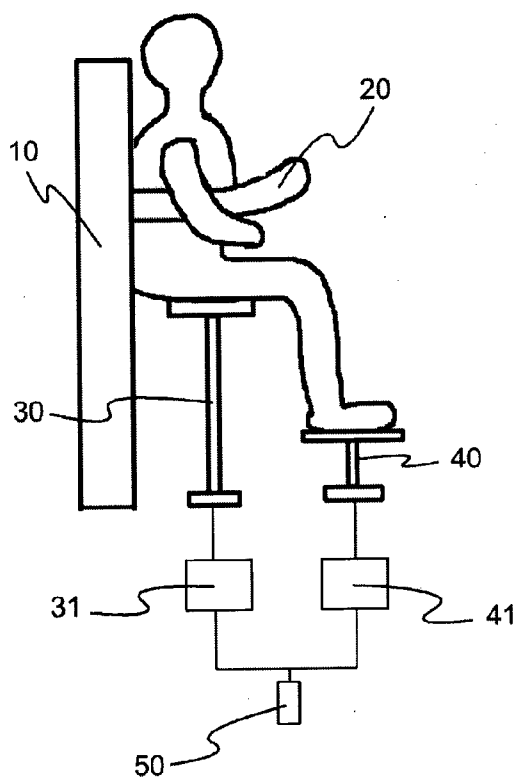


Figure 1

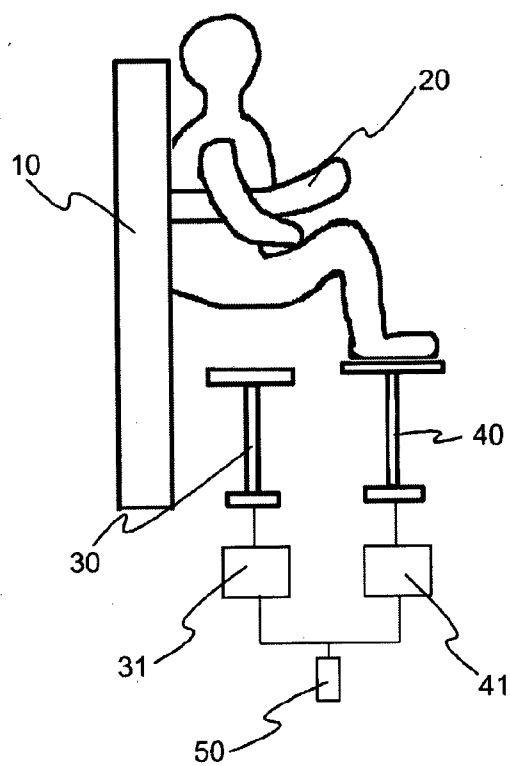


Figure 2

INTERNATIONAL SEARCH REPORT

International application No
PCT/TR2014/000529

A. CLASSIFICATION OF SUBJECT MATTER
INV. A61H1/02
ADD.

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)
A61H

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 practicable, search terms used)

EPO-Internal, PAJ, 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	US 2005/216061 A1 (KIM SANG C [JP] ET AL KIM SANG CHEOL [JP] ET AL) 29 September 2005 (2005-09-29) paragraphs [0036] - [0040], [0055]; figures	1-4
X	US 6 790 194 B1 (KATANE FUMIO [JP] ET AL) 14 September 2004 (2004-09-14) column 5, lines 41-67 - column 11, lines 20-67 column 12, lines 1-6; figures 1,7, 13A,13B	1-4
A	JP 2000 139977 A (TOKYO KASEIHIN CO LTD) 23 May 2000 (2000-05-23) figures	1-4
A	JP 2009 247378 A (KOSHIKEN KK) 29 October 2009 (2009-10-29) figures	1-4



Further documents are listed in the continuation of Box C.



See patent family annex.

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Date of the actual completion of the international search

22 May 2015

Date of mailing of the international search report

03/06/2015

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/TR2014/000529

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2005216061	A1	29-09-2005	JP 3981365 B2 26-09-2007
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