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(54) **FLOATING BED FOR OZONE HYDRO-MASSAGE**

SCHWEBEBETT ZUR OZONHYDROMASSAGE

LIT FLOTTANT POUR HYDRO-MASSAGE À L'OZONE

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Description**Field of the art**

[0001] The present invention operates in the field of medical devices for executing massage treatments, in particular the bed, object of the present invention, is adapted to allow ozone hydro-massage in water.

Prior art

[0002] Hydro-massage is a natural and effective treatment for bringing the organism back to an ideal condition, in order to each day combat a lifestyle that - due to sedentary work and incorrect diet - becomes hostile to our body.

[0003] The action of water moving on the body is a useful stimulator for the circulation, which is reactivated, facilitating the release and the use of body oxygen. The stimulation of the parts of the body subjected to water retention, accumulation of fats, problems of the circulatory and lymphatic system, presently occurs in centers specialized for this type of treatment. Some international patents have as object that of improving current hydro-massage and hydrotherapy practices, such as the patent RU 25 67 830. This claims a system for hydro-massage comprising a tube that is mechanically actuated in order to execute hydro-therapeutic procedures on a patient. The tube is arranged transverse to the body of the patient and has one end connected to a water source and the other end connected to a water sprayer directed towards the patient. The effect of using this machinery for hydro-massages is that of improving the patient's blood circulation.

[0004] Even if the practice of hydro-massage is widespread today, ozone hydro-massage is not as much so. This requires the presence of an ozone tank, which is difficult for a private individual to procure. The ozonation of the water with which the hydro-massage is executed also requires the preceding installation of a system of tubes that bring the gas from the tank to the mouths placed in the tub in which the patient is being hydro-massaged.

[0005] All these complications make ozone hydro-massage a practice that is not very widespread, which is complicated and costly.

[0006] US-A-4986781 discloses a floating bed for hydro-massage, adapted to be immersed in water in order to provide a hydro-massage treatment by means of the emission of air on the body of a user stretched out on said bed, wherein the bed is constituted at least by a structure for a mattress constituted by a back, a central portion and a foot zone; said structure being ergonomically adapted to house a user in stretched-out position, said back being adapted to be engaged, in a preferably reversible manner, with at least one cushion adapted to support the upper portion of the body of said user; said structure being adapted to be engaged, in a preferably

reversible manner, with a mattress provided with a plurality of micro-holes adapted to make a predetermined quantity of air flow out towards the body of the user when stretched out on said mattress; said bed also being constituted by at least one structure for a pair of arms adapted to contain floating material adapted to allow the immersion of the body of said user stretched out on said bed, leaving outside of the water at least the head when set on said cushion; said bed being connectable to the power grid by means of a common power cable provided with watertight outlets.

[0007] Object of the present invention is therefore that of describing a new and innovative type of bed which integrates everything necessary for carrying out an ozone hydro-massage in conditions of complete safety and relaxation for the user.

Description of the invention

[0008] According to the present invention, a floating bed for ozone hydro-massage is attained.

[0009] This practice is one of the most effective treatments for bringing the body back to its ideal state. Water, massage and ozone is the simplest and healthiest system available for maintaining oneself in shape and for the beauty, well-being and repose of the body. Ozone hydro-massage lightens muscular tension and it becomes a true beauty treatment against the blemishes of cellulite, acne, pimples, black spots, varicose veins, capillaries, blood and lymphatic circulation. The skin of the user, beginning with the initial treatments, will obtain a beneficial effect therefrom, becoming smooth and velvety, and the user will note a new charge of energy for confronting the daily stress.

[0010] The present bed is advantageously adapted to allow a user to stretch out on top of it, when the bed is immersed in water, and to remain with the body immersed and with the head outside of the water. This is made possible by the fact that the pair of arms constituting the bed are filled with a common floating material, such as air, gas, foam or other solid floating materials. The bed is therefore constituted by a structure, also comprising a structure for said pair of arms. All the structural elements are made of plastic or metal tubes, preferably of steel, of diameter comprised between ϕ 18 and ϕ 30, preferably ϕ 25. In order to assist the user in climbing on the bed when he/she is situated in the water, it is also advantageously possible to provide for a ladder to be reversibly clamped at any one point of the tubular structure of the bed.

[0011] The form of the structure of the bed is advantageously ergonomic and provided with a plurality of adjustable hinges suitably positioned for dividing said structure into a back, a central portion and a foot zone. Due to the hinges, it is possible to advantageously modify the tilt of the back and of the foot zone as the user desires.

[0012] The bed structure is also connected to at least one pair of wheels, which allow the movement thereof

also with a stretched-out user on top.

[0013] Preferably the foot zone, or any one other point of the structure of the bed, is also advantageously provided with at least one clasp device, constituted for example by a hook or by a sucker, which allows the stable and reversible engagement of the bed with the edge of the swimming pool in which it is immersed or with any other fixed element.

[0014] Said back is adapted to be engaged, preferably in a stable but reversible manner, with a cushion in order to support the head of the user. In an example, said cushion is also provided with a plurality of massaging rollers which act on the nape-neck-shoulders zone of the user for a complete relaxation.

[0015] The central portion and the foot zone, instead, are adapted to be engaged, always in a stable and preferably reversible manner, with a mattress which will host the immersed part of the user's body. Said mattress, advantageously, is characterized by a plurality of micro-holes and by a clasp adapted to be engaged with a second end of an extensible tube. The other end of said extensible tube is advantageously connected to an ozone tank which is a medical device suitably conceived for ozone therapy treatments.

[0016] Since the bed is advantageously connectable to a power grid by means of a common cable, by using a common push-button panel and/or a remote control, the user or a third person cause the actuation of the tank and the outflow of the ozone from the micro-holes of the mattress.

[0017] In addition to the buoyancy offered by the arms, also the tubular structure of the bed and of the arms themselves can be filled with any one floating material.

[0018] Advantageously it is possible to remove the bulk of the components outside the bed, rendering the present device an object that is more easily transportable and usable. In order to obtain this, it is possible to include said ozone tank within at least one of the arms and provide the bed with a common rechargeable battery, provided with watertight outlets, in place of the electric power cable.

[0019] Other additional equipment which makes the bed of the present invention a 360° complete instrument of relaxation are the following:

- a small table with relative glass-holder integrated or connected with one of said arms and configured for always remaining in an emerged position;
- at least one pair of impermeable audio speakers, preferably placed at said arms, adapted to be placed on the same wavelength as the radio frequencies and/or provided with a common wireless connection system, preferably of Bluetooth type, in order to play musical files stored in any one electronic device;
- a common sunshade canopy constituted by a cloth, preferably made of thin photovoltaic film, and by a structure stably and rotatably fixed to said structure of said arms so as to be reclinable as desired by the

user;

- a plurality of LED lights, adapted to change color at regular time intervals in order to provide a chromo-therapy treatment;
- 5 - the integration of a push-button panel in one of said arms so as to be easily reachable by the stretched-out user. In this manner the user, remaining easily stretched out while he/she receives the ozone hydro-massage, can adjust the intensity of the hydro-massage, the tilt of the back and of the foot zone, the tilt of the sunshade canopy, the intensity of movement of the massaging rollers and the volume of the audio speakers.

15 **[0020]** In order to allow the user to be subjected to ozone therapy treatment while he/she is situated in the company of other people, it is also advantageously possible to provide said bed, more precisely its load-bearing structure, with at least one connection device, constituted for example by a hook, which allows the stable and reversible connection of one bed alongside the other or of one bed after the other in a configuration with backs opposite.

20 **[0021]** The advantages offered by the present invention are clear in light of the description made up to now and will be even clearer due to the enclosed figures and relative detailed description.

Description of the figures

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[0022] The invention will be described hereinbelow in at least one preferred embodiment, with the aid of the closed figures, in which:

- 35 - FIGURE 1 shows the structure of the bed 1 and the structure of the arms 3 constituted by metal tubes. In particular, one sees the arrangement of the hinges 9-9' which divide said structure of the bed 1 into back 1', central portion 1" and foot zone 1"". At said foot zone 1"", one sees the clasp device 16 with sucker.
- 40 - FIGURE 2 illustrates the cushion 5 and the micro-perforated mattress 4.
- 45 - FIGURE 3 shows a simpler example of the present bed, in which one sees, in addition to the components already illustrated in the two preceding figures, also the arms 6-6', the ozone tank 7 and the extensible tube 8 with the first end 8' connected to said tank 7, and the second end 8" connected to the clasp 4' of the mattress 4. Also the clasp device 16 and the remote control 17 can be seen.
- 50 - FIGURE 4 shows a more complex example of the present invention with accessories. In this case, the tank 7 is integrated within one of the two arms 6-6'; the structure of the arms 3 is adjustably connected with the structure 14 of a reclinable canopy 10; the cushion 5 is provided with a plurality of massaging rollers 13; one of the two arms 6-6' is provided with

small table 11 with glass-holder 11' and with a push-button panel 15 in order to adjust the tilt of the bed, the volume of the audio speakers 12 integrated in the arms 6-6', the tilt of the canopy 10, the movement of the massaging rollers 13 and the intensity of the hydro-massage. At the back 1' of the structure 1 of the bed, moreover, two connection devices 18 are seen which allow the clasping with the back 1' of a second bed, in a configuration with backs opposite.

Detailed description of the invention

[0023] The present invention will now be illustrated as a merely exemplifying and non-limiting or non-constraining example, with reference to the figures which illustrate several embodiments relative to the present inventive concept.

[0024] With reference to FIG. 3, a basic version of the floating bed for ozone hydro-massage, object of the present invention, is illustrated.

[0025] This is constituted by a structure 1 for the bed and a structure 3 for the arms, irreversibly fixed together, constituted by steel tubes ϕ 25 with ergonomic shape. For an optimal comfort of the user stretched out on the bed, on said structure 1 a plurality of adjustable hinges 9-9' are arranged which allow modifying the tilt of back 1' and foot zone 1". At least one pair of wheels 2-2' are fixed to the central portion 1" of the structure 1 of the bed; such wheels allow an easy movement of the entire device. A clasping device 16 is fixed to the foot zone 1" of the structure 1, such device constituted by a sucker which can be connected to the edge of the swimming pool in order to maintain the bed stopped.

[0026] The central and lower part of the body of the user are housed by a mattress 4 adapted to be engaged, in a stable and reversible manner, with said central portion 1" and said foot zone 1" of the structure 1. These are the parts of the body that are immersed when the bed is in water. The ozone hydro-massage is carried out by means of a medical device constituted by an ozone tank 7 that is remotely positioned and connected to said mattress 4 by means of a common extensible tube 8. More in detail, said extensible tube 8 has a first end 8' engaged with said tank 7 and a second end 8" reversibly engaged with a suitable clasp 4' placed on one side of said mattress 4. The latter is provided with micro-holes from which the ozone flows out, giving rise to the hydro-massage.

[0027] The upper part of the body of the user is set on a cushion 5 adapted to be engaged with said back 1' of said structure 1.

[0028] This is the part of the body of the user that remains emersed due to the fact that said bed is laterally provided with a pair of floating arms 6-6'.

[0029] The bed of FIG. 3 is connected to the power grid by means of a common power cable and the reversible actuating of the tank 7, in order to begin or end the hydro-massage, is entrusted to a common fixed push-

button panel 15 and/or to a remote control 17.

[0030] With reference to FIG. 4, a version of the present bed is shown with multiple accessories, providing a complete relaxation treatment for the user.

[0031] Unlike the previously-described bed, this variant is characterized in that the ozone tank is included in one arm 6'. The other arm 6 is stably connected to a small table 11 with relative glass holder 11.a which always remain emersed with respect to the water.

[0032] Both said arms 6-6' are also provided with impermeable audio speakers 12 that can be placed on the same wavelength as the radio frequencies or with any one electronic device due to the Bluetooth connection.

[0033] The cushion 5, which houses the upper part of the body of the user, is provided with three massaging rollers 13 and, above the body of the user, a sunshade canopy 10 is placed that is constituted by a cloth made of thin photovoltaic film. Said canopy 10 is supported by a structure 14 that is stably and rotatably fixed to said-structure 3 of said arms 6-6'. The type of connection between these two structures 3-14 is such to allow the tilt of said canopy 10 as desired.

[0034] In the same arm 6 of the small table 11, directed towards the user, a push-button panel 15 is placed which is adapted to adjust:

- the intensity of the hydro-massage by means of common means for adjusting the pressure of the ozone flowing out from said tank 7;
- the tilt of the back 1' and of the foot zone 1";
- the tilt of the sunshade canopy 10;
- the volume of the audio speakers 12;
- the intensity of the massage of the massaging rollers 13.

[0035] The power supply of all the components requiring it, in this case, occurs due to a common watertight rechargeable battery integrated in one of said arms 6-6'.

[0036] At the back 1' of the structure 1 of the bed, two connection devices 18 are placed which allow the stable and reversible clasping with the back 1' of a second bed, obtaining a configuration of the two beds with backs 1' opposite.

[0037] Finally, it is clear that modifications, additions or variations that are obvious for a man skilled in the art can be made to the invention described up to now, without departing from the protective scope that is provided by the enclosed claims.

Claims

1. Floating bed for ozone hydro-massage, adapted to be immersed in water in order to provide a hydro-massage treatment by means of the emission of ozone on the body of a user stretched out on said bed, comprising a structure (1) for a mattress, constituted by a back (1'), a central portion (1") and a

foot zone (1''); said structure (1) being made of plastic or metal tubes, preferably made of steel, of diameter comprised between 0,18m (Ø18) and 0,30m,(Ø30) preferably 0,25m Ø25), adapted to house a user in stretched-out position; said structure (1) being provided with a plurality of adjustable hinges (9) adapted to allow modifying the tilt of said back (1') and of said foot zone (1'') with respect to said central portion (1''); said back (1') being engaged, in a preferably reversible manner, with at least one cushion (5) adapted to support the upper portion of the body of said user; said structure (1) being engaged, in a preferably reversible manner, with a mattress (4) provided with a plurality of micro-holes adapted to make a predetermined quantity of ozone flow out towards the body of the user when stretched out on said mattress (4); said ozone coming from a tank (7), constituted by a medical device suitably configured for ozone therapy treatments, provided with an extensible tube (8) having a first end (8') connected to said tank (7) and a second end (8'') connected to a suitable clasp (4') present on said mattress (4); said bed also being provided with at least one pair of wheels (2-2'), irreversibly fixed to said central portion (1'') of said structure (1), adapted to allow the movement of said bed on a surface, also with a user stretched out on top thereof, by simply lifting said foot zone (1'') and pushing said structure (1) in the desired direction; said bed also being constituted by at least one structure (3) for a pair of arms (6-6') adapted to contain floating material adapted to allow, in use, the immersion of the body of said user stretched out on said bed, leaving outside of the water at least the head when set on said cushion (5); said structure (3) being made of plastic or metal tubes, preferably made of steel, of diameter comprised between 0,18m (Ø18) and 0,30m,(Ø30) preferably 0,25m (Ø25); said outflow of ozone from said micro-holes of said mattress (4) being regulated by a common push-button panel (15) and/or by a common remote control (17); said bed being connectable to a power grid by means of a common power cable provided with watertight outlets; said bed also being provided with at least one clasp device (16), by way of a non-limiting example constituted by a sucker or by a hook placed at any one point of said structure (1), preferably at said foot zone (1''), adapted, in use, to be reversibly engageable with a fixed element, for example with the edge of a swimming pool.

2. Floating bed for ozone hydro-massage, according to the preceding claim 1, **characterized in that** said ozone tank (7) is contained within one of said arms (6-6').
3. Floating bed for ozone hydro-massage, according to any one of the preceding claims 1 or 2, **characterized in that** at least one of said arms (6-6') is

provided with a small table (11) and with a glass-holder (11.a) suitably configured for always remaining in an emersed position.

4. Floating bed for ozone hydro-massage, according to any one of the preceding claims, **characterized in that** it is provided with at least one pair of impermeable audio speakers (12), preferably placed at said arms (6-6'), adapted to be on the same wavelength as the radio frequencies and/or provided with a common wireless connection system, preferably of Bluetooth type, in order to play musical files stored in any one electronic device.
5. Floating bed for ozone hydro-massage, according to any one of the preceding claims, **characterized in that** said cushion (5) is provided with a plurality of rollers (13) adapted to massage the neck and the shoulders of the user stretched out on said bed when the ozone hydro-massage is operating.
6. Floating bed for ozone hydro-massage, according to any one of the preceding claims, **characterized in that** said structure (1) of said bed contains floating material adapted to assist the buoyancy offered by said arms (6-6').
7. Floating bed for ozone hydro-massage, according to any one of the preceding claims, **characterized in that** it is provided with a sunshade canopy (10) constituted by a cloth, preferably made of thin photovoltaic film, and by a structure (14) stably and rotatably fixed to said structure (3) for said arms (6-6'); said sunshade canopy (10) being reclining as desired by the user.
8. Floating bed for ozone hydro-massage, according to any one of the preceding claims, **characterized in that** it is provided with a plurality of LED lights, adapted to change color at regular time intervals in order to provide a chromotherapy treatment.
9. Floating bed for ozone hydro-massage, according to any one of the preceding claims, **characterized in that** said push-button panel (15) is placed at one of said arms (6-6') in order to be reachable by said user; said push-button panel (15) and/or said remote control (17) being adapted to allow the user to autonomously adjust:
 - the intensity of the hydro-massage by means of common means for adjusting the pressure of the ozone flowing out from said tank (7);
 - the tilt of the back (1') and of the foot zone (1'');
 - the tilt of the sunshade canopy (10), if dependent on claim 7;
 - the volume of the audio speakers (12), if dependent on claim 4;

- the intensity of the massage of the massaging rollers (13), if dependent on claim 5.

10. Floating bed for ozone hydro-massage, according to any one of the preceding claims, **characterized in that** it is provided with at least one common watertight rechargeable battery, preferably integrated within one of said arms (6-6'), adapted to power supply all of the components of said bed, making it independent from the power grid.
11. Floating bed for ozone hydro-massage, according to any one of the preceding claims, **characterized in that** it is provided with at least one ladder, which can be reversibly clasped at any one point of said structure (1) in order to assist the user immersed in water in climbing up on said bed.
12. Floating bed for ozone hydro-massage, according to any one of the preceding claims, **characterized in that** it is provided with a plurality of connection devices (18) adapted to allow reversible clasping with at least one second floating bed according to any of the previous claims, preferably a plurality of beds, arranged one alongside the other and/or one after the other with said backs (1') opposite.

Patentansprüche

1. Schwebebett zur Ozon-Hydromassage, das dazu angepasst ist, in Wasser eingetaucht zu werden, um eine Hydromassage-Behandlung mittels der Emission von Ozon auf den Körper eines auf dem Bett ausgestreckten Nutzers durchzuführen, das eine Struktur (1) für eine Matratze aufweist, die aus einem Rückenteil (1'), einem zentralen Teil (1'') und einer Fußzone (1''') besteht; wobei die Struktur aus (1) Kunststoff- oder Metallrohren hergestellt ist, vorzugsweise aus Stahl hergestellt ist, mit einem Durchmesser zwischen 0,18 m (018) und 0,30 m, (030), vorzugsweise 0,25 m (025), aufweist, die dazu angepasst ist, einen Nutzer in ausgestreckter Position aufzunehmen; wobei die Struktur (1) mit mehreren einstellbaren Gelenken (9) versehen ist, die dazu angepasst sind, das Modifizieren der Neigung des Rückenteils (1') und der Fußzone (1''') in Bezug auf den zentralen Teil (1'') zu ermöglichen; wobei der Rückenteil (1') in einer vorzugsweise reversiblen Weise mit zumindest einem Kissen (5) in Eingriff steht, das dazu angepasst ist, den oberen Teil des Körpers des Nutzers zu stützen; wobei die Struktur (1) in einer vorzugsweise reversiblen Weise mit einer Matratze (4) in Eingriff steht, die mit mehreren Mikrolöchern versehen ist, die dazu angepasst sind, eine vorgegebene Menge an Ozon in Richtung des Körpers des Nutzers ausströmen zu lassen, wenn er auf der Matratze (4) ausgestreckt ist; wobei das Ozon aus einem Behälter (7) kommt, der aus einer medizinischen Einrichtung besteht, die in geeigneter Weise für Ozontherapiebehandlungen ausgebildet ist und mit einem verlängerbaren Rohr (8) versehen ist, das ein mit dem Behälter (7) verbundenes erstes Ende (8') aufweist, und ein zweites Ende (8''), das mit einer geeigneten, auf der Matratze (4) vorhandenen Klammer (4') verbunden ist; wobei das Bett auch mit zumindest einem Paar von Rädern (2-2') versehen ist, die irreversibel an dem zentralen Teil (1'') der Struktur (1) befestigt sind, und die dazu angepasst sind, die Bewegung des Bettes auf einer Oberfläche zu ermöglichen, auch wenn ein Nutzer darauf ausgestreckt ist, indem einfach die Fußzone (1''') angehoben und die Struktur (1) in die gewünschte Richtung geschoben wird; wobei das Bett auch aus zumindest einer Struktur (3) für ein Paar Arme (6-6') besteht, die dazu angepasst sind, schwimmendes Material zu enthalten, das dazu angepasst ist, im Gebrauch das Eintauchen des Körpers des auf dem Bett ausgestreckten Nutzers zu ermöglichen, wobei zumindest der Kopf außerhalb des Wassers bleibt, wenn er auf dem Kissen (5) sitzt; wobei die Struktur (3) aus Kunststoff- oder Metallrohren, vorzugsweise aus Stahl, hergestellt ist, mit einem Durchmesser zwischen 0,18 m (018) und 0,30 m (030), vorzugsweise 0,25 m (025); wobei der Ozonaustritt aus den Mikrolöchern der Matratze (4) durch ein gewöhnliches Druckknopf-Panel (15) und/oder durch eine gewöhnliche Fernbedienung (17) geregelt wird; wobei das Bett mittels eines gewöhnlichen Stromkabels, das mit wasserdichten Steckdosen versehen ist, an ein Stromnetz anschließbar ist; wobei das Bett auch mit zumindest einer Halteeinrichtung (16) versehen ist, die als nicht einschränkende Beispiel durch einen Saugnapf oder durch einen Haken gebildet ist, der an einem beliebigen Punkt der Struktur (1), vorzugsweise in der Fußzone (1'''), angeordnet ist und dazu angepasst ist, im Gebrauch mit einem festen Element, zum Beispiel mit dem Rand eines Schwimmbeckens, reversibel in Eingriff gebracht zu werden.
2. Schwebebett zur Ozon-Hydromassage nach dem vorhergehenden Anspruch 1, **dadurch gekennzeichnet, dass** der Ozonbehälter (7) in einem der Arme (6-6') enthalten ist.
3. Schwebebett zur Ozon-Hydromassage nach einem der vorhergehenden Ansprüche 1 oder 2, **dadurch gekennzeichnet, dass** zumindest einer der Arme (6-6') mit einem kleinen Tisch (11) und mit einem Glashalter (11.a) versehen ist, der geeignet ausgebildet ist, dass er immer in einer herausragenden Position verbleibt.
4. Schwebebett zur Ozon-Hydromassage nach einem der vorhergehenden Ansprüche, **dadurch gekennzeichnet,**

- zeichnet, dass** es mit zumindest einem Paar von undurchlässigen Lautsprechern (12) versehen ist, die vorzugsweise an den Armen (6-6') platziert sind, die auf der gleichen Wellenlänge wie die Funkfrequenzen liegen und/oder mit einem gewöhnlichen drahtlosen Verbindungssystem, vorzugsweise vom Typ Bluetooth, versehen sind, um in einer beliebigen elektronischen Einrichtung gespeicherte Musikdateien abzuspielen.
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5. Schwebebett zur Ozon-Hydromassage nach einem der vorhergehenden Ansprüche, **dadurch gekennzeichnet, dass** das Kissen (5) mit mehreren Rollen (13) versehen ist, die dazu angepasst sind, den Nacken und die Schultern des auf dem Bett ausgestreckten Nutzers zu massieren, wenn die Ozon-Hydromassage in Betrieb ist.
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6. Schwebebett zur Ozon-Hydromassage nach einem der vorhergehenden Ansprüche, **dadurch gekennzeichnet, dass** die Struktur (1) des Bettes schwimmendes Material enthält, das dazu angepasst ist, den durch die Arme (6-6') gebotenen Auftrieb zu unterstützen.
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7. Schwebebett zur Ozon-Hydromassage nach einem der vorhergehenden Ansprüche, **dadurch gekennzeichnet, dass** es mit einem Sonnendach (10) versehen ist, das durch ein Tuch, vorzugsweise aus einer dünnen photovoltaischen Folie, und gebildet ist, und durch eine Struktur (14), die stabil und drehbar an der Struktur (3) für die Arme (6-6') befestigt ist; wobei das Sonnendach (10) nach Wunsch durch den Nutzer neigbar ist.
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8. Schwebebett zur Ozon-Hydromassage nach einem der vorhergehenden Ansprüche, **dadurch gekennzeichnet, dass** es mit mehreren LED-Leuchten versehen ist, die dazu angepasst sind, in regelmäßigen Zeitintervallen die Farbe zu ändern, um eine Farbtherapiebehandlung durchzuführen.
- 25
9. Schwebebett zur Ozon-Hydromassage nach einem der vorhergehenden Ansprüche, **dadurch gekennzeichnet, dass** das Druckknopf-Panel (15) an einem der Arme (6-6') so angeordnet ist, dass es für den Nutzer erreichbar ist; wobei das Druckknopf-Panel (15) und/oder die Fernbedienung (17) dazu angepasst ist, es dem Nutzer zu ermöglichen, das Folgende selbständig einzustellen:
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- die Intensität der Hydromassage mittels gewöhnlicher Mittel zum Einstellen des Drucks des aus dem Behälter (7) ausströmenden Ozons;
 - die Neigung des Rückenteils (1') und der Fußzone (1'');
 - die Neigung des Sonnendachs (10), falls von Anspruch 7 abhängig;
- 35
- die Lautstärke der Lautsprecher (12), falls von Anspruch 4 abhängig;
- die Intensität der Massage der Massagerollen (13), falls von Anspruch 5 abhängig.
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10. Schwebebett zur Ozon-Hydromassage nach einem der vorhergehenden Ansprüche, **dadurch gekennzeichnet, dass** es mit zumindest einer gewöhnlichen, wasserdichten, wiederaufladbaren Batterie versehen ist, die vorzugsweise in einen der Arme (6-6') integriert ist und die dazu angepasst ist, alle Komponenten des Bettes mit Leistung zu versorgen, wodurch es vom Stromnetz unabhängig ist.
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11. Schwebebett zur Ozon-Hydromassage nach einem der vorangehenden Ansprüche, **dadurch gekennzeichnet, dass** es mit zumindest einer Leiter versehen ist, die an einem beliebigen Punkt der Struktur (1) reversibel eingehakt werden kann, um den in das Wasser eingetauchten Nutzer beim Aufsteigen auf das Bett zu unterstützen.
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12. Schwebebett zur Ozon-Hydromassage nach einem der vorhergehenden Ansprüche, **dadurch gekennzeichnet, dass** es mit mehreren Einrichtungen (18) versehen ist, die dazu angepasst sind, ein reversibles Verbinden mit zumindest einem zweiten Schwebebett nach einem der vorhergehenden Ansprüche zu ermöglichen, vorzugsweise mit mehreren Betten, die nebeneinander und/oder hintereinander angeordnet sind, wobei die Rückenteile (1') einander gegenüberliegen.
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- ### 35 Revendications
1. Lit flottant pour hydro-massage à l'ozone, adapté pour être immergé dans de l'eau afin de fournir un traitement d'hydro-massage au moyen de l'émission d'ozone sur le corps d'un utilisateur allongé sur ledit lit, comprenant une structure (1) pour un matelas, constituée d'un dossier (1'), d'une partie centrale (1'') et d'une zone pour pieds (1'''); ladite structure (1) étant constituée de tubes plastiques ou métalliques, de préférence constitués d'acier, d'un diamètre compris entre 0,18 m (Ø18) et 0,30 m (Ø30), de préférence de 0,25 m (Ø25), adaptée pour recevoir un utilisateur en position allongée ; ladite structure (1) étant munie d'une pluralité de charnières ajustables (9) adaptées pour permettre de modifier l'inclinaison dudit dossier (1') et de ladite zone pour pieds (1''') par rapport à ladite partie centrale (1'') ; ledit dossier (1') étant mis en prise, d'une manière de préférence réversible, avec au moins un coussin (5) adapté pour soutenir la partie supérieure du corps dudit utilisateur ; ladite structure (1) étant mise en prise, d'une manière de préférence réversible, avec un matelas (4) muni d'une pluralité de micro-trous adaptés

- pour amener une quantité prédéterminée d'ozone à s'écouler vers le corps de l'utilisateur lorsqu'il est allongé sur ledit matelas (4) ; ledit ozone provenant d'un réservoir (7), constitué d'un dispositif médical configuré de manière appropriée pour des traitements d'ozonothérapie, muni d'un tube extensible (8) ayant une première extrémité (8') raccordée audit réservoir (7) et une seconde extrémité (8'') raccordée à une fixation appropriée (4') présente sur ledit matelas (4) ; ledit lit étant également muni d'au moins une paire de roues (2-2'), fixées de manière irréversible à ladite partie centrale (1'') de ladite structure (1), adaptée pour permettre le déplacement dudit lit sur une surface, également avec un utilisateur allongé sur le haut de celui-ci, en soulevant simplement ladite zone pour pieds (1''') et en poussant ladite structure (1) dans la direction souhaitée ; ledit lit étant également constitué d'au moins une structure (3) pour une paire de bras (6-6') adaptée pour contenir un matériel flottant adapté pour permettre, en utilisation, l'immersion du corps dudit utilisateur allongé sur ledit lit, ; en laissant hors de l'eau au moins la tête lorsqu'elle est posée sur ledit coussin (5) ; ladite structure (3) étant constituée de tubes plastiques ou métalliques, de préférence constitués d'acier, d'un diamètre compris entre 0,18 m (Ø18) et 0,30 m (Ø30), de préférence de 0,25 m (Ø25) ; ledit écoulement en sortie d'ozone à partir desdits micro-trous dudit matelas (4) étant régulé par un panneau à boutons-poussoirs commun (15) et/ou par une télécommande commune (17) ; ledit lit pouvant être raccordé à un réseau électrique au moyen d'un câble d'alimentation commun muni de sorties étanches ; ledit lit étant également muni d'au moins un dispositif de fixation (16), à titre d'exemple non limitatif constitué d'une ventouse ou d'un crochet placé au niveau d'un point quelconque de ladite structure (1), de préférence au niveau de ladite zone pour pieds (1'''), adapté, en utilisation, pour pouvoir être mis en prise de manière réversible avec un élément fixe, par exemple avec le bord d'une piscine.
2. Lit flottant pour hydro-massage à l'ozone, selon la revendication 1 précédente, **caractérisé en ce que** ledit réservoir d'ozone (7) est contenu dans l'un desdits bras (6-6').
 3. Lit flottant pour hydro-massage à l'ozone, selon l'une des revendications 1 ou 2 précédentes, **caractérisé en ce qu'**au moins un desdits bras (6-6') est muni d'une petite table (11) et d'un porte-verre (11.a) configurés de manière appropriée pour rester toujours dans une position émergée.
 4. Lit flottant pour hydro-massage à l'ozone, selon l'une des revendications précédentes, **caractérisé en ce qu'**il est muni d'au moins une paire de haut-parleurs imperméables (12), placés de préférence au niveau desdits bras (6-6'), adaptés pour être sur la même longueur d'onde que les fréquences radio et/ou munis d'un système de raccordement sans fil commun, de préférence de type Bluetooth, afin de jouer des fichiers musicaux stockés dans un quelconque dispositif électronique.
 5. Lit flottant pour hydro-massage à l'ozone, selon l'une des revendications précédentes, **caractérisé en ce que** ledit coussin (5) est muni d'une pluralité de rouleaux (13) adaptés pour masser la nuque et les épaules de l'utilisateur allongé sur ledit lit lorsque l'hydro-massage à l'ozone est en cours de fonctionnement.
 6. Lit flottant pour hydro-massage à l'ozone, selon l'une des revendications précédentes, **caractérisé en ce que** ladite structure (1) dudit lit contient un matériel flottant adapté pour assister la flottabilité offerte par lesdits bras (6-6').
 7. Lit flottant pour hydro-massage à l'ozone, selon l'une des revendications précédentes, **caractérisé en ce qu'**il est muni d'un auvent pare-soleil (10) constitué d'un tissu, de préférence constitué d'un film mince photovoltaïque, et d'une structure (14) fixée de manière stable et rotative à ladite structure (3) pour lesdits bras (6-6') ; ledit auvent pare-soleil (10) étant inclinable comme souhaité par l'utilisateur.
 8. Lit flottant pour hydro-massage à l'ozone, selon l'une des revendications précédentes, **caractérisé en ce qu'**il est muni d'une pluralité de lampes LED, adaptées pour changer de couleur à des intervalles de temps réguliers afin de fournir un traitement de chromothérapie.
 9. Lit flottant pour hydro-massage à l'ozone, selon l'une des revendications précédentes, **caractérisé en ce que** ledit panneau à boutons-poussoirs (15) est placé au niveau de l'un desdits bras (6-6') afin d'être accessible par ledit utilisateur ; ledit panneau à boutons-poussoirs (15) et/ou ladite télécommande (17) étant adaptés pour permettre à l'utilisateur d'ajuster de manière autonome :
 - l'intensité de l'hydro-massage au moyen de moyens communs pour ajuster la pression de l'ozone s'écoulant hors dudit réservoir (7) ;
 - l'inclinaison du dossier (1') et de la zone pour pieds (1''') ;
 - l'inclinaison de l'auvent pare-soleil (10), si dépendant de la revendication 7 ;
 - le volume des haut-parleurs (12), si dépendant de la revendication 4 ;
 - l'intensité du massage des rouleaux de massage (13), si dépendant de la revendication 5.
 10. Lit flottant pour hydro-massage à l'ozone, selon l'une

des revendications précédentes, **caractérisé en ce qu'il** est muni d'au moins une batterie commune étanche rechargeable, de préférence intégrée dans l'un desdits bras (6-6'), adaptée pour alimenter en énergie tous les composants dudit lit, le rendant indépendant du réseau électrique. 5

11. Lit flottant pour hydro-massage à l'ozone, selon l'une des revendications précédentes, **caractérisé en ce qu'il** est muni d'au moins une échelle, qui peut être fixée de manière réversible à tout point de ladite structure (1) afin d'aider l'utilisateur immergé dans l'eau à grimper sur ledit lit. 10

12. Lit flottant pour hydro-massage à l'ozone, selon l'une des revendications précédentes, **caractérisé en ce qu'il** est muni d'une pluralité de dispositifs de raccordement (18) adaptés pour permettre une fixation réversible avec au moins un second lit flottant selon l'une des revendications précédentes, de préférence une pluralité de lits, disposés les uns à côté des autres et/ou les uns après les autres avec lesdits dossiers (1') opposés. 15
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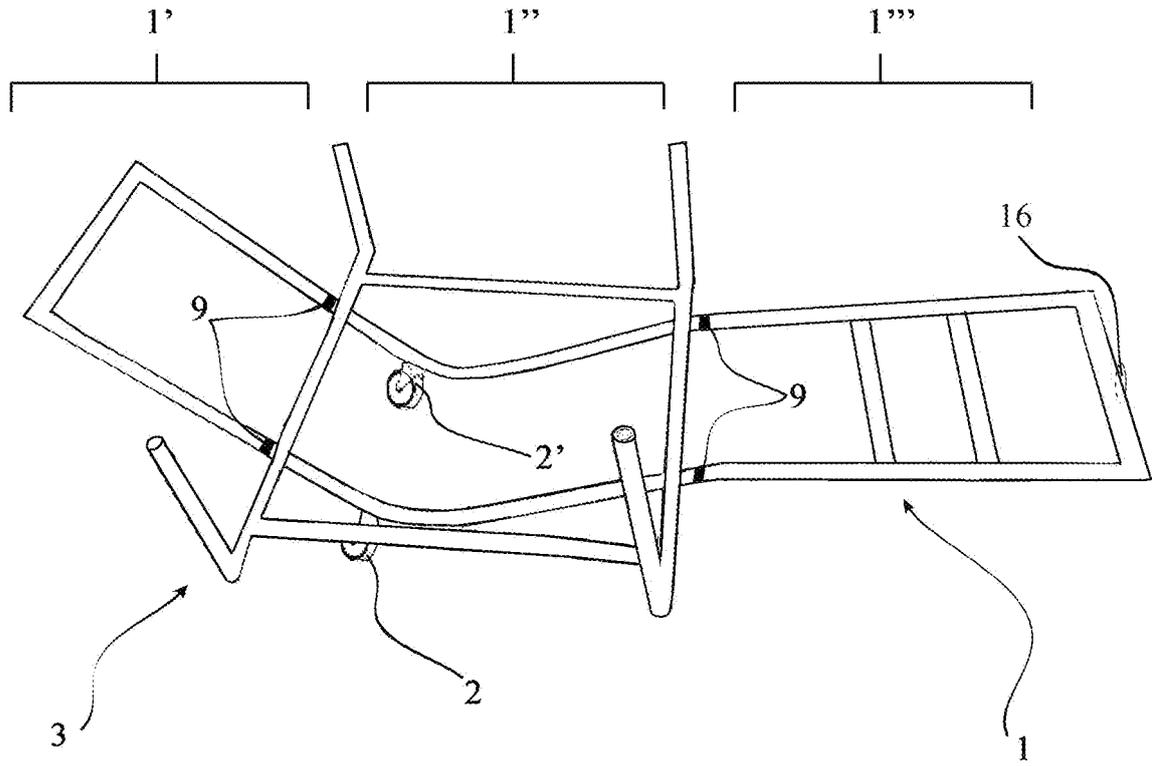


Fig. 1

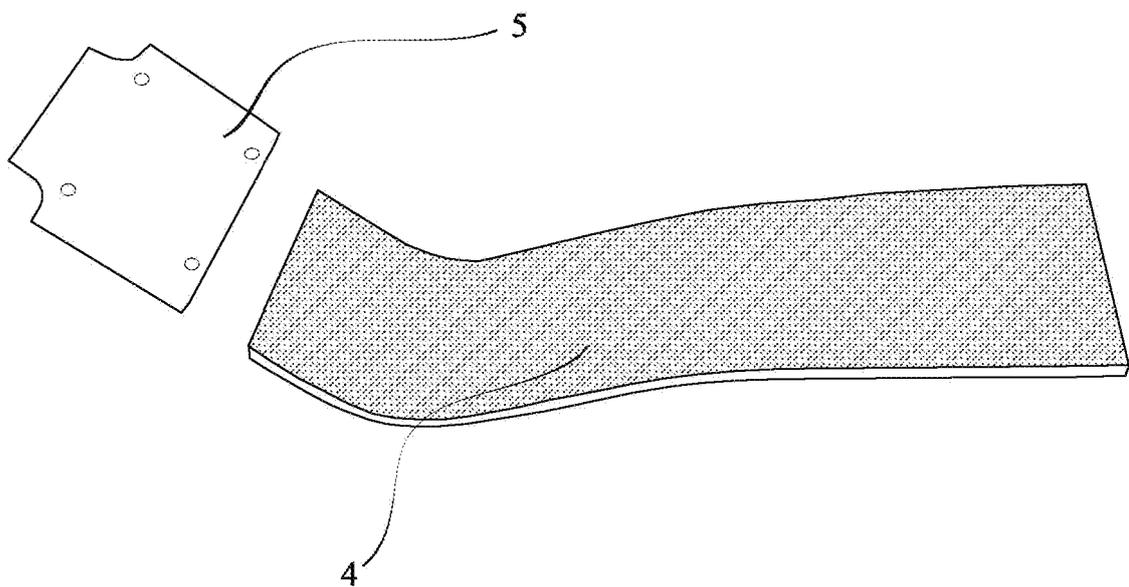


Fig. 2

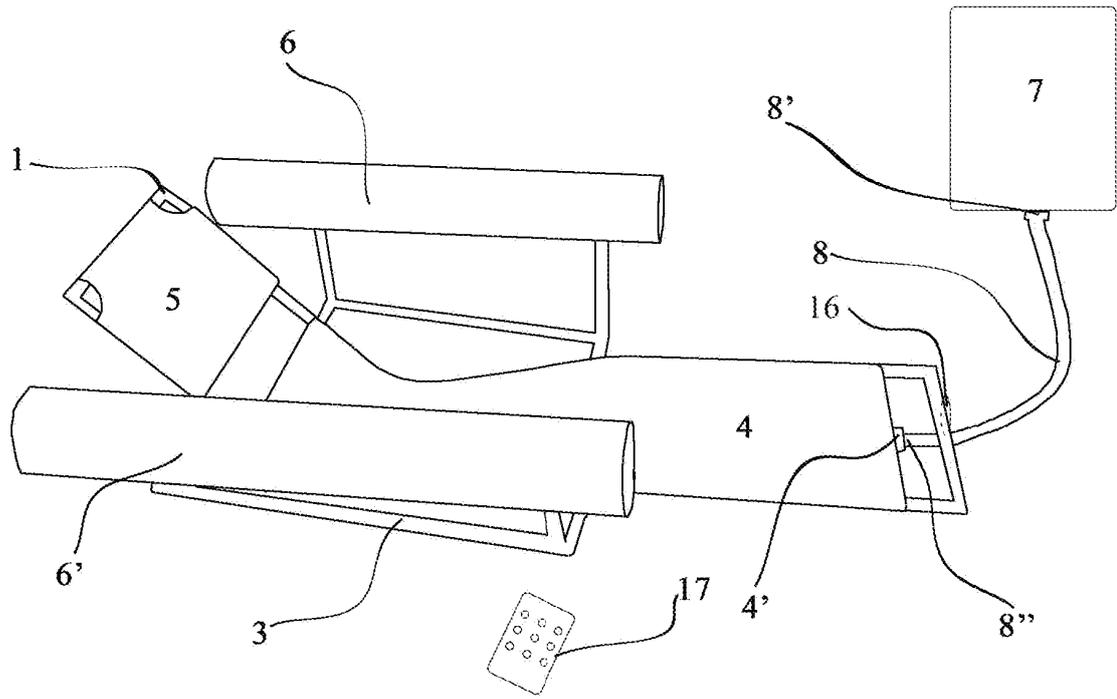


Fig. 3

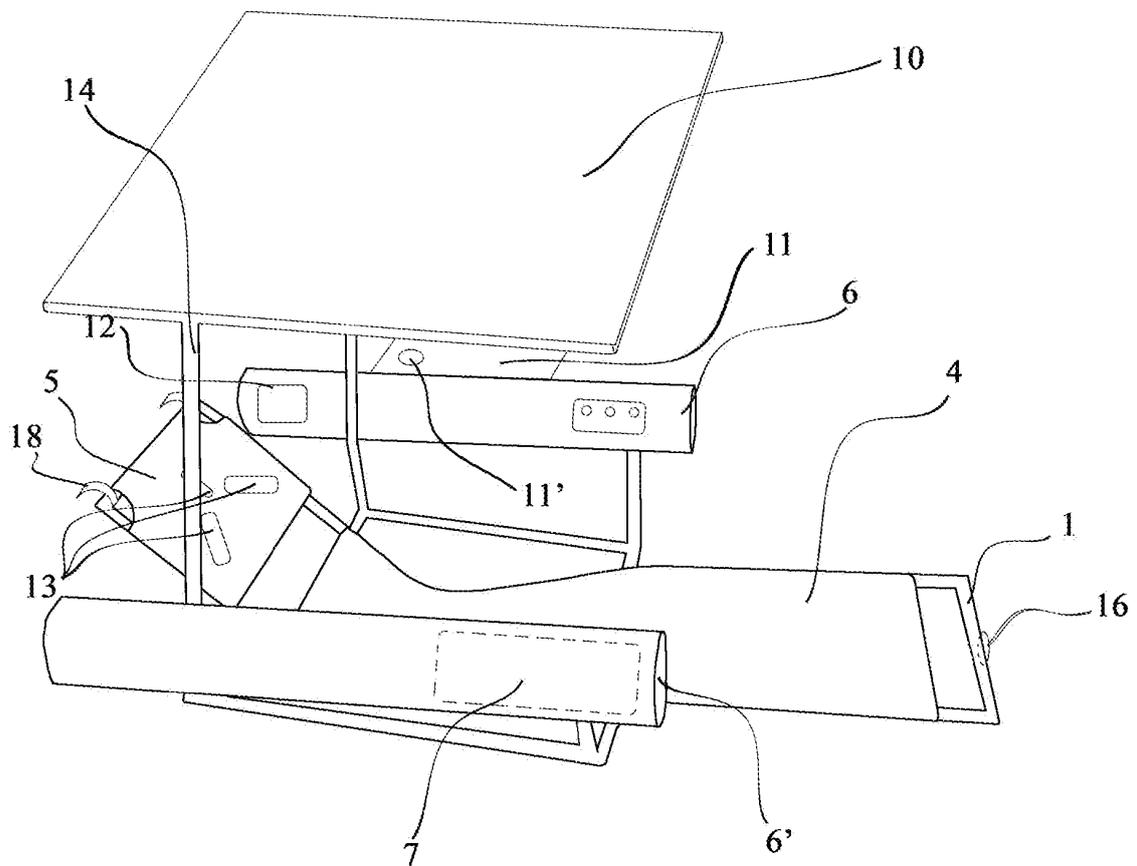


Fig. 4

REFERENCES CITED IN THE DESCRIPTION

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