

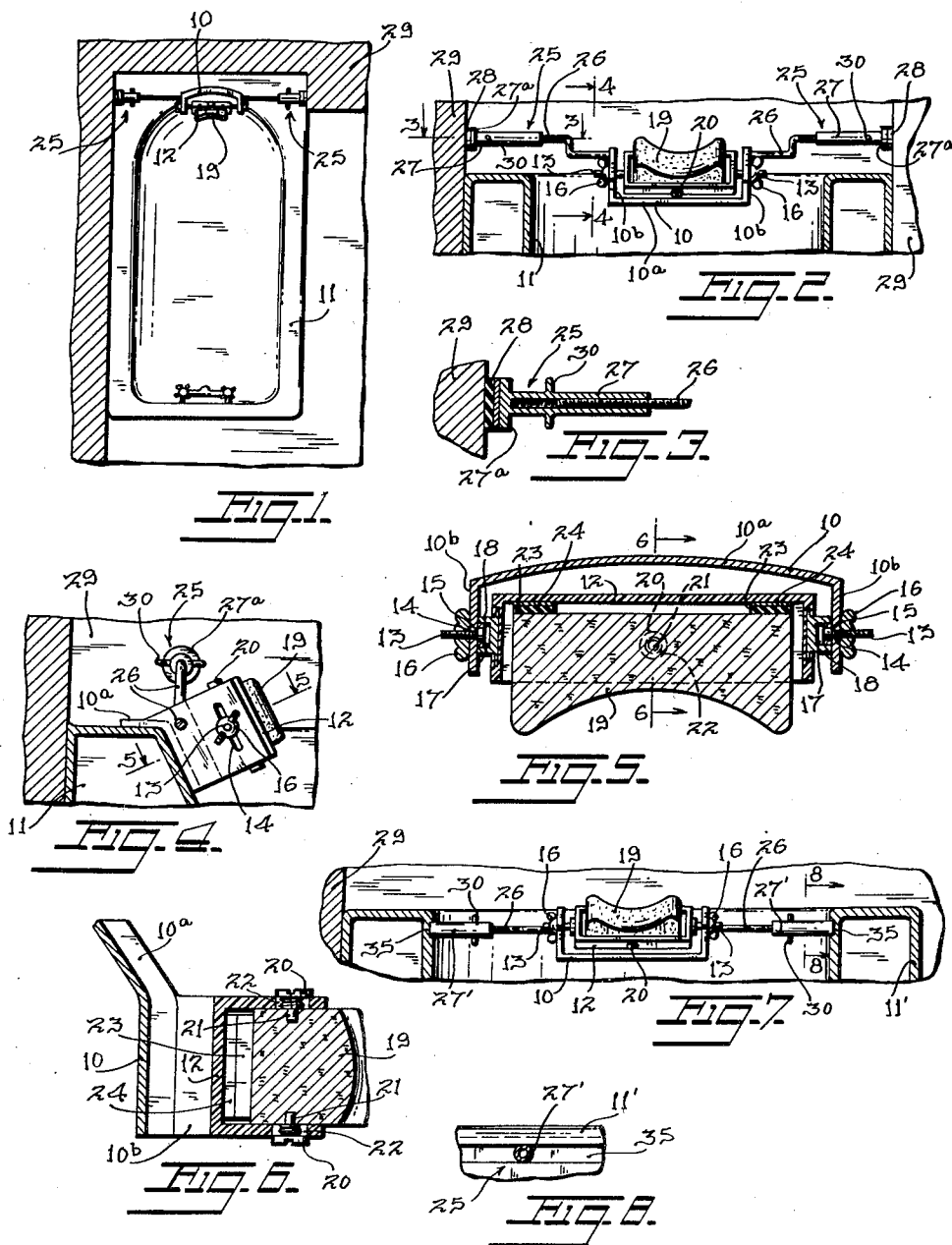
April 4, 1950

A. ZUKOR

2,503,145

ADJUSTABLE HEADREST FOR BATH TUBS

Filed Jan. 29, 1948



INVENTOR.

ARNOLD ZUKOR

BY

John H. Blackley

ATTORNEY

UNITED STATES PATENT OFFICE

2,503,145

ADJUSTABLE HEADREST FOR BATHTUBS

Arnold Zukor, New York, N. Y.

Application January 29, 1948, Serial No. 5,001

10 Claims. (Cl. 4—185)

1

This invention relates to head rests and more particularly to head rests for use in combination with bathtubs.

More specifically, the invention proposes the construction of a novel head rest which is adapted to be mounted in position adjacent the head end of the bathtub in a manner to engage the back of the head at the nape of the neck and support the same while the person taking a bath in the tub assumes a reclining position.

Another object of the invention proposes the construction of head rest having a head rest member formed of cork or other similar resilient material and which is universally supported in a manner to assume various pivoted positions in response to movements of the head.

Still another object of the present invention proposes the construction of a head rest having a head rest member which is adjustable in a substantially vertical plane in a manner to adjust the vertical positioning of the head rest member to suit the immediate needs of the person using the same.

It is a further object of this invention to so construct the head rest and its supports that the same may be entirely removed from the bathtub when so desired, leaving the tub free of any obstructions.

A still further object of the present invention proposes the construction of a head rest for a bathtub arranged to be clamped in position between the walls of the bath room immediately above the bathtub or between the opposite side walls of the tub itself.

It is still a further object of this invention to construct a head rest, and particularly a head rest for a bathtub, which is simple and durable and which may be manufactured and sold at a reasonable cost.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawings forming a material part of this disclosure—

Fig. 1 is a plan view of a bathtub provided with a head rest constructed in accordance with this invention.

Fig. 2 is a front elevational view of the head rest shown in position on the bathtub which is shown in section.

Fig. 3 is a sectional view of one of the clamps taken on the line 3—3 of Fig. 2.

2

Fig. 4 is an end elevational view of the head rest taken on the line 4—4 of Fig. 2.

Fig. 5 is a horizontal sectional view of the head rest taken on the line 5—5 of Fig. 4.

Fig. 6 is a vertical sectional view taken on the line 6—6 of Fig. 5.

Fig. 7 is a vertical sectional view of a portion of a bathtub illustrating a head rest constructed in accordance with a modification of the invention and clamped in position between the side walls of the tub.

Fig. 8 is a partial sectional view on the line 8—8 of Fig. 7.

The head rest according to the present invention comprises a substantially U-shaped frame 10, preferably of a non-corrosive metal; such as stainless steel, having its intermediate arm 10a shaped to conform to the top edge of a bathtub 11 at the head end thereof, see Fig. 4.

Disposed between the forwardly extending arms 10b of the substantially U-shaped frame 10 is a casing 12. The casing 12 is preferably constructed of a resinous plastic material. Threaded bolts 13 are indirectly mounted on the end walls 25 of the casing 12 and pass through substantially vertically arranged slots 14 formed in the forwardly projecting arms 10b of the substantially U-shaped frame 10. The bolts 13 have shoulders 15 against which the inner faces of the forwardly extending arms 10b of the U-shaped frame are adapted to engage. Thumb nuts 16 threadedly engage the projected ends of the bolts 13 for clamping the arms 10b between the shoulders 15 and the thumb nuts 16 for holding the casing 12 in various adjusted positions along the length of the slots 14.

The bolts 13 have enlarged heads 17 rotatively retained in recesses formed in metallic bosses 18 molded in the side walls of the casing 12. The enlarged heads 17 are retained in position in the recesses of the bosses 18 by means of rings which are welded, braised or in any other manner secured in position. The heads 17 are rotative within the bosses 18 allowing the casing 12 to pivot on a horizontal axis.

A head rest member 19 is disposed in the open front of the casing 12 and has its exposed face shaped to conform to the back of a person's head. The head rest member 19 is preferably formed of cork or other similar resilient material.

Trunnions 20 are extended through the top and bottom walls of the casing 12 and engage complementary openings 21 formed in the top and bottom walls of the head rest member 19 for turnably supporting the head rest member to

pivot on an axis extended through the trunnions 20. The trunnions 20 have threaded engagement with threaded bushings 22 mounted in the top and bottom walls of the casing 12, see Fig. 6. With this construction, trunnions can be removed freeing the head rest member 19 for replacement when desired.

Means is provided for resisting a free pivoting of the head rest member 19 and for retaining the same in a neutral position within the casing 12. This means comprises small sponge rubber blocks 23 interposed between the ends of the head rest member 19 and the back wall of the casing 12. Adhesive 24 securely attaches the small sponge rubber blocks 23 to the back face of the casing 12.

Clamps 25 are provided for holding the substantially U-shaped frame 10 in position upon the top edge of the bathtub 11 at the head end thereof. These clamps 25 comprise arms 26 integrally formed with the arms 10b of the U-shaped frame 10 and which extend in opposite directions from the frame 10. Threadedly engaged upon the ends of the arms 26 there are extension members 27, which are provided at their free ends with enlarged heads 27a faced with rubber 28 for engaging the walls 29 of the bath room above the bathtub 11. The extension members 27 are formed with small extending fingers 30 by which the extension members 27 may be conveniently gripped for tightening the same against the walls 29 of the bath room.

With the head rest mounted in position upon the head end of the bathtub as shown in Figs. 1 to 3, it will be appreciated that the present invention provides a novel head rest member 19 shaped to conform to the back of one's head and formed of sufficiently soft material to permit one's head to be comfortably rested thereon while in a reclining position within the tub 11. Then, too, the head rest member 19, by reason of its turning action on the trunnions 20 and the turning action of the casing 12 on the enlarged heads 17 of the threaded bolts 13, is free to move in all directions in response to movements of the head resting on the member 19.

In the modification of the invention shown in Figs. 7 and 8, the construction of the head rest is similar to that previously described, differing only in the manner of clamping the substantially U-shaped frame 10 in position. In this form of the invention, the side walls of the bathtub 11' are formed with horizontal, longitudinally extending grooves 35, located adjacent the top edges of the tub. The ends of the extension members 27' of the clamps 25' are adapted to be received in the grooves 35, permitting the head rest to be clamped in any position within the bathtub 11' within the lengths of the grooves 35.

In other respects this form of the invention is similar to that previously described, and like reference numerals identify like parts in the several views.

From the foregoing description it is apparent that the present invention provides a novel head rest adapted to be mounted on a bathtub and which will act to comfortably support one's head and one which may be entirely removed from the bathtub when desired to permit a free and easy cleaning of the interior of the tub.

While I have illustrated and described the preferred embodiments of my invention, it is to be understood that I do not limit myself to the precise constructions herein disclosed and the right is reserved to all changes and modifications

coming within the scope of the invention as defined in the appended claims.

Having thus described my invention, what I claim as new and desire to secure by United States Letters Patent is:

1. A head rest for bathtubs, comprising a frame positioned adjacent one end of a bathtub, a casing pivotally supported on said frame to be vertically adjustable and to pivot on an axis extended through the pivotal support, a head rest member for engaging the back of the head at the nape of the neck and mounted in said casing, and means pivotally supporting said head rest member to pivot on an axis extended through said pivotal support and which extends at right angles to said first axis.

2. A head rest for bathtubs, comprising a frame positioned adjacent one end of a bathtub, a casing pivotally supported on said frame to be vertically adjustable and to pivot on an axis extended through the pivotal support, a head rest member for engaging the back of the head at the nape of the neck and mounted in said casing, and means pivotally supporting said head rest member to pivot on an axis extended through said pivotal support and which extends at right angles to said first axis, said frame being substantially U-shaped and having its intermediate arm shaped to conform to the top edge of the bathtub at the head end thereof.

3. A head rest for bathtubs, comprising a frame positioned adjacent one end of a bathtub, a casing pivotally supported on said frame to be vertically adjustable and to pivot on an axis extended through the pivotal support, a head rest member for engaging the back of the head at the nape of the neck and mounted in said casing, and means pivotally supporting said head rest member to pivot on an axis extended through said pivotal support and which extends at right angles to said first axis, said mounting of said casing, comprises threaded bolts passing through elongated slots formed in said frame, shoulders formed on said threaded bolts, thumb nuts on said threaded bolts for clamping said frame in position on said bolts against said shoulders, permitting adjustment of said bolts along the length of said slots to similarly adjust said casing, enlarged heads formed on said threaded bolts, and means for pivotally attaching said enlarged heads to the end walls of said casing.

4. A head rest for bathtubs, comprising a frame positioned adjacent one end of a bathtub, a casing pivotally supported on said frame to be vertically adjustable and to pivot on an axis extended through the pivotal support, a head rest member for engaging the back of the head at the nape of the neck and mounted in said casing, and means pivotally supporting said head rest member to pivot on an axis extended through said pivotal support and which extends at right angles to said first axis, said mounting of said casing, comprises threaded bolts passing through elongated slots formed in said frame, shoulders formed on said threaded bolts, thumb nuts on said threaded bolts for clamping said frame in position on said bolts against said shoulders, permitting adjustment of said bolts along the length of said slots to similarly adjust said casing, enlarged heads formed on said threaded bolts, and means for pivotally attaching said enlarged heads to the end walls of said casing, said enlarged heads being turnably received in bosses mounted on the end walls of said casing forming the pivotal attaching means for said enlarged heads.

5. A head rest for bathtubs, comprising a frame positioned adjacent one end of a bathtub, a casing pivotally supported on said frame to be vertically adjustable and to pivot on an axis extended through the pivotal support, a head rest member for engaging the back of the head at the nape of the neck and mounted in said casing, and means pivotally supporting said head rest member to pivot on an axis extended through said pivotal support and which extends at right angles to said first axis, said pivotal supporting means for said head rest member, comprises trunnions extending inwards from the top and bottom walls of said casing and engaging into complementary recesses formed in the top and bottom faces of said head rest member.

6. A head rest for bathtubs, comprising a frame positioned adjacent one end of a bathtub, a casing pivotally supported on said frame to be vertically adjustable and to pivot on an axis extended through the pivotal support, a head rest member for engaging the back of the head at the nape of the neck and mounted in said casing, and means pivotally supporting said head rest member to pivot on an axis extended through said pivotal support and which extends at right angles to said first axis, said pivotal supporting means for said head rest member, comprises trunnions extending inwards from the top and bottom walls of said casing and engaging into complementary recesses formed in the top and bottom faces of said head rest member, said trunnions being threadedly engaged with threaded bushings mounted through the top and bottom walls of said casing permitting removal of said trunnions to free said head rest member when desired.

7. A head rest for bathtubs, comprising a frame positioned adjacent one end of a bathtub, a casing pivotally supported on said frame to be vertically adjustable and to pivot on an axis extended through the pivotal support, a head rest member for engaging the back of the head at the nape of the neck and mounted in said casing, and means pivotally supporting said head rest member to pivot on an axis extended through said pivotal support and which extends at right angles to said first axis, and means resisting a free pivotal movement of said head rest member.

8. A head rest for bathtubs, comprising a frame positioned adjacent one end of a bathtub, a casing pivotally supported on said frame to be ver-

tically adjustable and to pivot on an axis extended through the pivotal support, a head rest member for engaging the back of the head at the nape of the neck and mounted in said casing, and means pivotally supporting said head rest member to pivot on an axis extended through said pivotal support and which extends at right angles to said first axis, and means resisting a free pivotal movement of said head rest member, said resisting means, comprises small sponge rubber blocks interposed between the ends of said head rest member and the back wall of said casing.

9. A head rest for bathtubs, comprising a frame positioned adjacent one end of a bathtub, a casing pivotally supported on said frame to be vertically adjustable and to pivot on an axis extended through the pivotal support, a head rest member for engaging the back of the head at the nape of the neck and mounted in said casing, and means pivotally supporting said head rest member to pivot on an axis extended through said pivotal support and which extends at right angles to said first axis, and extendable clamps for securing the frame in position, said clamps being engageable with walls above the bath tub.

10. A head rest for bathtubs, comprising a frame positioned adjacent one end of a bathtub, a casing pivotally supported on said frame to be vertically adjustable and to pivot on an axis extended through the pivotal support, a head rest member for engaging the back of the head at the nape of the neck and mounted in said casing, and means pivotally supporting said head rest member to pivot on an axis extended through said pivotal support and which extends at right angles to said first axis, and extendable clamps for securing the frame in position, said clamps being engageable in horizontal grooves formed in the side walls of the tub adjacent the top edge thereof.

ARNOLD ZUKOR.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
704,403	Thill	July 8, 1902
2,282,688	Zuck et al.	May 12, 1942