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C. J. KATENKAMP

2,040,942

SUN BATH SEAT

Filed Feb. 11, 1935

Fig. 1

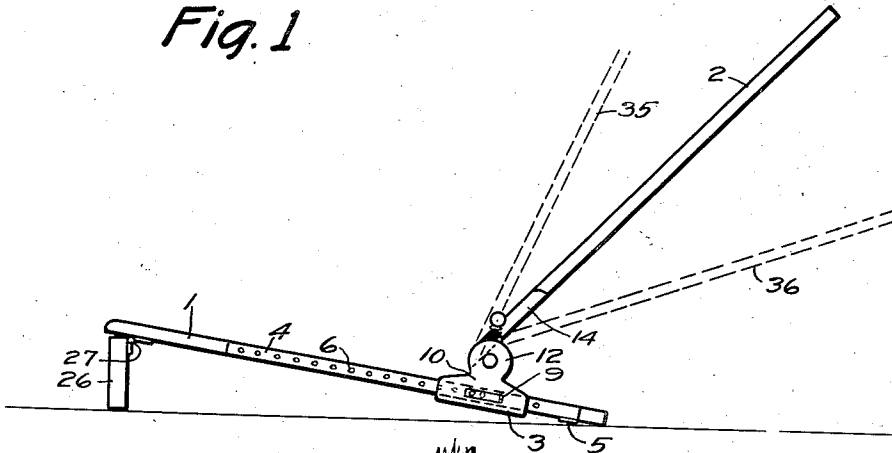


Fig. 2

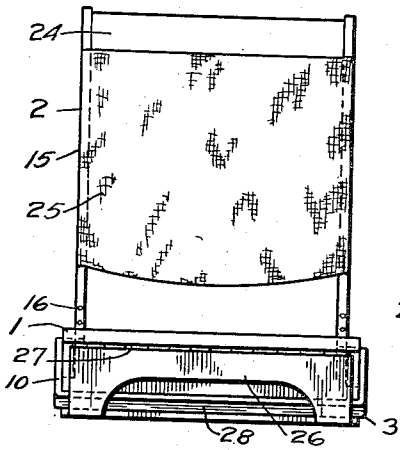


Fig. 4

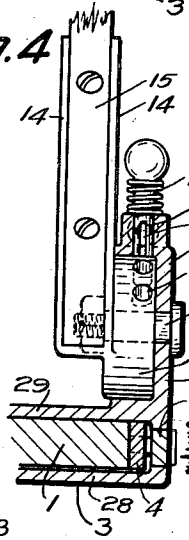


Fig. 5

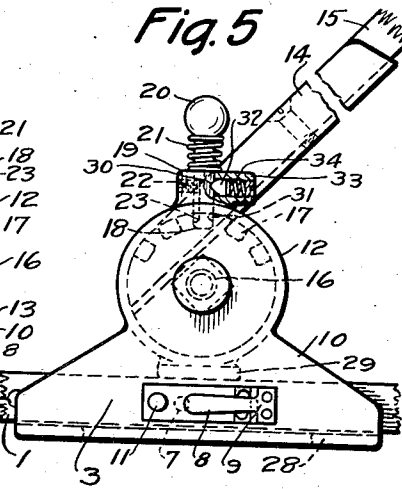


Fig. 3

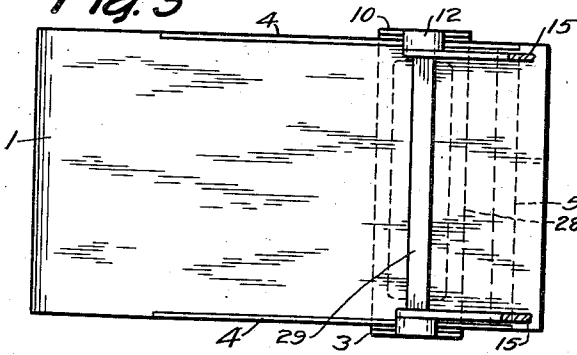
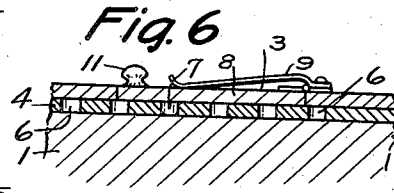


Fig. 6



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# UNITED STATES PATENT OFFICE

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## SUN BATH SEAT

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4 Claims. (Cl. 155—154)

The purpose of this invention is to provide a collapsible chair or seat which is particularly adapted for beaches and resorts which may be folded to substantially a flat position so that it may readily be packed and carried, and so that several may be placed in a pleasure car.

The invention is a seat formed with a flat board having a pivotally supported back slidably mounted on the board, and also a hinged member below the forward end adapted to raise the forward end thereof. The seat is so constructed that with the weight of a person thereon a considerable pressure may be placed against the back without raising the seat.

Many devices have been provided for exposing the body to the sun on beaches and in resorts and the like, and also providing rests or reclining devices; however, substantially all of these are either in the form of folding chairs which require considerable space when folded, or mats or spreads that may be placed upon the sand or the like, and these are not provided with back rests or means for elevating the forward end of the seat. It is, therefore, desirable to provide a device adapted to give the same comfort as a folding chair which is substantially formed of a plain board and which, when folded, will occupy about the same space.

The object of the invention is, therefore, to provide a collapsible seat having an adjustable back in combination in which the entire device may be folded to occupy the space normally required for the seat alone.

Another object is to provide a collapsible seat in which the position of the back in relation to the length of the seat may readily be adjusted.

A further object is to provide means for adjusting and supporting a back from a seat in which the point to which the back is joined to the seat may be moved in relation to the length of the seat.

A still further object is to provide a collapsible seat which provides substantially the same comfort as a folding chair which is relatively small and of a comparatively light weight.

And a still further object is to provide a collapsible seat which may be folded to occupy substantially the same space as the seat alone which is of a simple and economical construction.

With these ends in view the invention embodies a seat comprising a flat board, legs adapted to elevate the forward end thereof, a back, means adjusting the angle of the back in relation to the seat, and also means adjusting the position of the back in relation to the length of the seat.

Other features and advantages of the invention will appear from the following description, taken in connection with the drawing, wherein:

Figure 1 is a view showing a side elevation of the seat with the back extending upward and with the forward end elevated.

Figure 2 is a front view of the seat in the position as shown in Figure 1.

Figure 3 is a plan view of the seat with the back showing the sliding member by which the back is attached to the seat.

Figure 4 is a cross section through the socket by which the back is held.

Figure 5 is a view showing the socket on an enlarged scale.

Figure 6 is a detail showing the latch for holding the back in different positions on the seat.

In the drawing the seat is shown as it may be made wherein numeral 1 indicates the seat, numeral 2 the back, and numeral 3 the sliding carriage in which the back is held.

The seat is made of a flat piece of material, and may be wood, metal, or any material, however in the design shown it is made of wood, and the sides are provided with metal inserts 4 with their rear ends connected by a metal cross member 5. The inserts 4 are provided with holes 6 in which pins 7 from the latches 8 extend, as shown in Figure 6, and it will be noted that the latches are held in the closed position by springs 9 and are hinged to the side plates 10 of the carriage 3. The latches 8 may be provided with knobs 11 by which they may readily be opened or drawn outward to remove the pins 7 from the openings, and it will be noted that with these latches open the carriage 3 is free to slide back and forth on the seat 1 so that it may be adjusted to any position, and when it is in the correct position the latches 8 may be closed so that the pins 7 will register in openings 6, and thereby hold the carriage in position. In the upper ends of the side plates 10 are circular sockets 12 into which hubs 13 at the lower ends of the back 2 extend, as shown in Figures 4 and 5. It is preferred to make the hubs 13 of metal and these are each formed with a metallic channel shaped section 14 extending upward on the side members 15 of the back 2 so that the side members may be held in these members by screws as shown, or by any means. The hubs 13 are held in the sockets 12 by shoulder bolts 16, as shown in Figure 4, which will hold the members freely and prevent binding by tightening of the nuts on the ends thereof. The hubs 13 are provided with openings 17 into which pins 18 which are slidably held in bosses

19 on the upper surfaces of the sockets 12 may extend, and it will be noted that with these pins in the downward position they will extend into the openings 17 and hold the back in relation to the seat. The pins 18 may be provided with knobs 20 and these may have springs 21 below the knobs which will tend to raise the pins so that when it is desired to release the back, it is only necessary to exert a slight forward pressure thereon so that the binding on the pins caused thereby is removed and the pins are released and the spring will then raise the pins out of the openings 17 so that the back may be moved over or adjusted to any position. The position of the pins 18 may also be held by spring pins as hereinafter described, if desired. When the back is in the desired position, the pins 20 may be pressed downward into the openings 17, and the weight of the back due to its tilt will cause the hubs 13 to exert pressure on the pins and thereby hold the pins in the openings by friction. It will be understood that any other means may be used for adjustably holding the back in relation to the seat, and the holding means may be slidable in relation to the seat, or held thereon in any manner.

The bosses 19 are provided with set screws 22 which extend into slots 23 in the pins 18 to limit their upward movement, as it will be noted that when the pins are released the springs will move them upward until the lower ends of the slots 23 engage the set screws. This permits the pins to move out of the openings 17 but holds them in position.

In the design shown, the back 2 is formed with the side bars 15, a cross bar 24 at the top and the intermediate portion is covered by canvas 25, however it will be understood that the intermediate portion may be covered by any material, or arranged in any manner.

At the forward end of the seat is a leg member 26 which is hinged to the under side thereof by hinges 27, and this may be folded against the under side of the seat, or may be opened to the position shown in Figures 1 and 2 to elevate the forward end of the seat when desired.

The carriage 3 may be slidably mounted upon the seat in any manner, and any means may be used for locating and holding the carriage in different positions. In the design shown, the carriage is formed with a cross plate 28 which extends under the seat, and a plate 29 which extends over the upper surface of the seat. These plates form supporting members for the side plates 10 of the sockets 12, however it will be understood that these sockets may be mounted upon the board in any manner, or held by any means.

It will also be noted that the pins 18 may be provided with notches 30 and 31 into which spring pins 32 which are held in projections 33 on the sides of the bosses 19 may snap as the pins arrive at the upper and lower positions. The pins 32 may be held by springs 34, and these may be mounted in the projections 33 in any manner. It will be understood, however, that any other means may be used for holding the pins at their upper or lower positions.

It will be understood that other changes may

be made in the construction without departing from the spirit of the invention. One of which changes may be in the omission of the inserts 4, as slots and openings may be provided in the edges of the board for holding the latch of the carriage, another may be in the use of other means for connecting the lower ends of the back to the adjustable socket, and still another may be in the use of other means for elevating the forward end or any part of the seat.

The construction will be readily understood from the foregoing description. In use the seat may be provided as shown and described, and it will be noted that ordinarily the back 2 may be folded downward upon the seat 1 so that it is parallel thereto, and the leg 26 may also be folded against the under side of the seat. In this position the entire seat will be comparatively flat and occupy very little space, and as it is made of relatively light weight material, several of these may readily be carried and a comparatively large number may be carried in an automobile. When it is desired to use the seats they will be opened to the position shown in Figure 1, or the back may be adjusted to a substantially vertical position, as indicated by the dotted lines 35, or it may also be moved backward to the dotted lines 36 to form a reclining seat, and it will be noted that the weight of the body of a person on the forward part of the seat 1 will make it possible to put considerable pressure upon the back, even in the position indicated by the dotted lines 36. The seat may, therefore, be used in substantially any position and may be made to accommodate large or small people by moving the lower end of the back forward and backward upon the seat.

Having thus fully described the invention, what I claim as new and desire to secure by Letters Patent, is:

1. A beach seat comprising a relatively long horizontal board seat section adapted to rest on the ground, a back, a sliding member extending across and embracing said seat section and longitudinally slidable thereon, means securing said sliding member in different positions upon the seat section, cylindrical sockets on the ends of said sliding member, hubs at the lower end of said back positioned to operate in said sockets to adjust the position of said back in relation to the seat section, and means holding said hubs in different positions in said sockets for angular adjustment of said back in relation to the seat section.

2. A beach seat as described in claim 1 characterized in that a flat member is hingedly attached to the under side of the forward end of said seat and adapted to be vertically positioned to raise said forward end.

3. A beach seat as described in claim 1 characterized in that the base of said sliding member is relatively long providing an extended bearing surface against the bottom of the seat for supporting said back.

4. A beach seat as described in claim 1 characterized in that a portion of the seat extends rearwardly of the sliding member.

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