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SEAT BACK REST

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Fig. 1

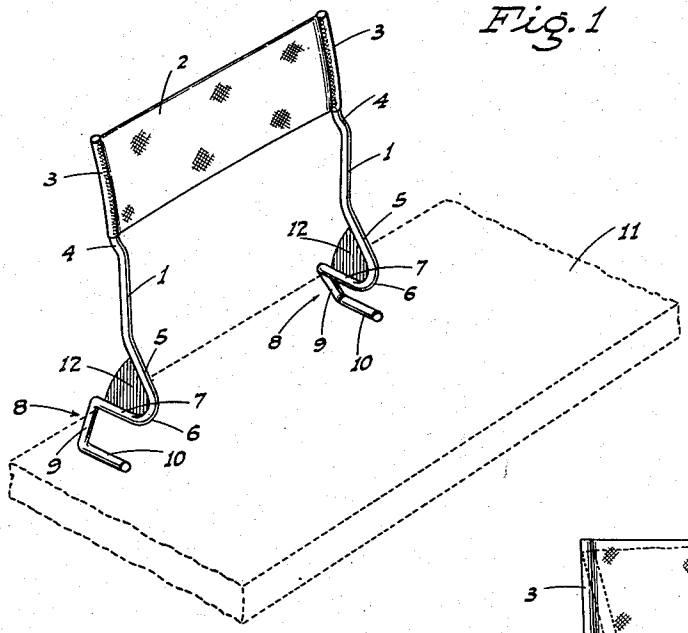


Fig. 2

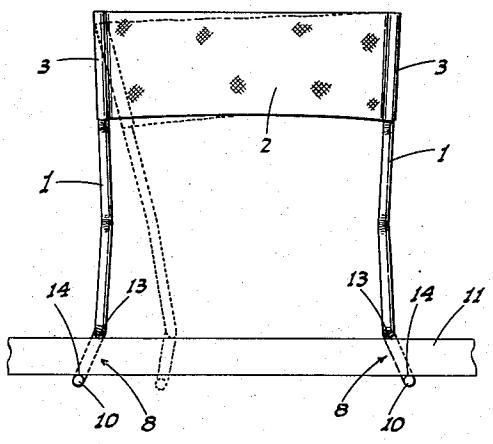
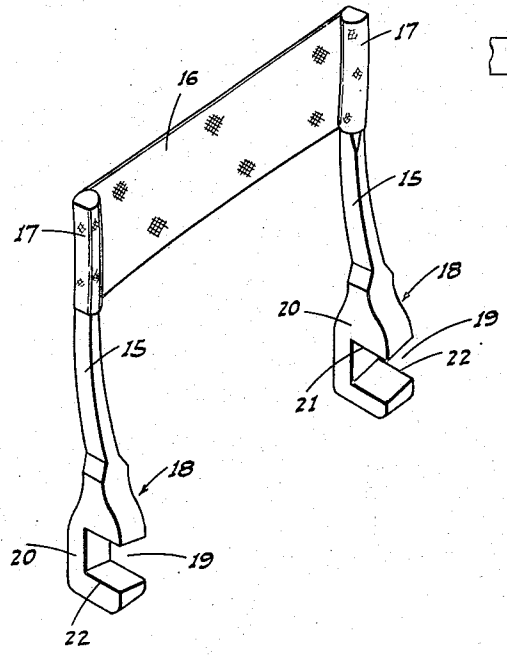


Fig. 3



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SEAT BACK REST

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4 Claims. (Cl. 155—133)

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This invention is directed to, and it is an object to provide, a novel back rest for detachable engagement with an initially backless board or plank seat such as is found in stadiums or the like; the device affording substantial comfort to the occupant of the seat.

A separate object of the invention is to provide a back rest, for the purpose, which is handy, convenient, readily portable, and easily manually attached to or detached from a board or plank seat.

An additional object of the invention is to provide a back rest which includes spaced standards connected together by a flexible seat back of canvas or the like; there being novel means to secure the standards at transversely spaced points and at their lower ends to a board or plank seat, and such means being tightened automatically upon the occupant of the seat resting rearward against said seat back, with resultant tension on the standards laterally toward each other.

Another object of the invention is to provide a back rest which is capable of collapse into a relatively small, light weight bundle for carrying.

A further object of the invention is to provide a back rest which is designed for ease and economy of manufacture; the structure of the device being simple but sturdy.

A still further object of the invention is to provide a practical and reliable portable back rest for board or plank seats, and yet one which will be exceedingly effective for the purpose for which it is designed.

These objects are accomplished by means of such structure and relative arrangement of parts as will fully appear by a perusal of the following specification and claims.

In the drawings:

Fig. 1 is a perspective view of the back rest as in use.

Fig. 2 is a front elevation of the same; the released position of one of the standards being shown in dotted lines.

Fig. 3 is a perspective view of a modification of the back rest.

Referring now more particularly to the characters of reference on the drawings, and at present to Figs. 1 and 2, the back rest comprises a pair of standards 1 constructed of metallic rod.

A seat back 2 of flexible material, such as heavy-duty canvas, extends between the upper portions of the standards 1 and is connected at the ends thereto by vertical attachment sleeves

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3 in which said upper end portions of the standards are received.

If desired, the standards may have a slight rearward offset 4 directly below the attachment sleeves 3, to best position the seat back 2.

At their lower end portions the standards 1 each incline forwardly and downwardly, as at 5, and thence curve downwardly and rearwardly, as at 6, merging in integral relation with the top leg 7 of a substantially U-shaped, forwardly opening binding yoke, indicated generally at 8.

Each binding yoke 8 includes, in addition to the top leg 7, a dependent back leg 9 and a forwardly projecting bottom leg 10.

The top leg 7 and bottom leg 10 of each binding yoke 8 are spaced apart a sufficient distance to permit such yoke to straddle a board or plank seat 11 from the rear edge; such seat being of the type which is commonly found in stadiums or the like.

Additionally, the binding yoke 8, corresponding to each standard 1, is inclined laterally outwardly and downwardly. Thus, when each standard is upright the top leg 7 of the corresponding binding yoke 8 lies laterally inwardly of the related bottom leg 10. See Fig. 2.

A reinforcing web 12 is secured in place between each top leg 7 and the adjacent forwardly and downwardly inclined portion 5 of each standard; such web not only serving as a reinforcement but also providing a hand-hold for manipulation of the standards 1 when the back rest is being manually attached to, or detached from, the seat 11.

The described back rest is used in the following manner:

To attach the back rest the pair of binding yokes 8 are engaged, in straddling relation, over the seat 11 from the rear edge thereof, and the standards 1 are manually separated as far as possible so as to place the seat back 2 under tension.

This tension, which increases greatly when the occupant of the seat leans rearwardly against the seat back 2, tends to urge the standards 1 laterally inwardly at the top. When this occurs the binding yokes 8 forcefully and effetcively bind on the seat 11; each top leg 7 binding downwardly onto the top surface of the seat, while the corresponding bottom leg 10 binds upwardly against the under surface of the seat. The top line of bind is indicated at 13, and the bottom line of bind at 14, in Fig. 2.

With the yokes 8 thus bound against the seat 11 said yokes, together with the standards 1, cannot escape rearwardly relative to said seat, and

the occupant of the latter may lean rearwardly in comfortable engagement with the seat back 2.

To detach the back rest from the seat 11, it is only necessary to swing one of the standards 1 laterally inwardly to the dotted-line position shown in Fig. 2, whereupon both yokes 8 unbind and may be easily freed rearwardly from the seat 11. As detached, the standards 1 are brought together and the flexible seat back 2 wrapped about the same to form a relatively light-weight and compact bundle for carrying and storage.

In Fig. 3 there is shown a modification of the back rest; such modification being of substantially the same assembly as above described, but includes standards 15 which are of wood rather than metal rod. The standards 15 are connected together at their upper end portions by a seat back 16 of flexible material, such as canvas, and which seat back 16 is secured to said standards 15 by vertical attachment sleeves 17.

At their lower ends the standards 15 include integral blocks, indicated generally at 18, which blocks 18 are each formed with a transverse, forwardly opening slot 19 whereby to form the corresponding block as a binding yoke 20, whose purpose is the same as the yokes 8 of the embodiment of Figs. 1 and 2.

The transverse slots 19 are inclined laterally inwardly and downwardly, as shown, so that when such binding yokes 20 are engaged with a board or plank seat from the rear edge and laterally inward tension is applied to the standards 15 at their upper end portions, said yokes 20 effectively bind the seat.

The top line of bind of each yoke 20 is indicated at 21, and the bottom line of bind is indicated at 22.

This embodiment of the invention is attached to a seat, used, and detached from said seat, in exactly the same manner as described in connection with the embodiment of Figs. 1 and 2.

When used with a board or plank seat which is initially backless, the described device—in either embodiment—provides substantial comfort to the occupant of the seat, permitting such occupant to lean rearwardly in a restful manner.

Although simple and relatively light weight in structure, the device is sturdy and is capable of use in a convenient and ready manner.

An advantageous feature of the device, in either embodiment, is that the same can be attached to a board or plank seat without the need of screw-type clamps, or other securing mechanism requiring manual adjustment.

From the foregoing description it will be readily seen that there has been produced such a device as substantially fulfills the objects of the invention, as set forth herein.

While this specification sets forth in detail the present and preferred construction of the device, still in practice such deviations from such detail may be resorted to as do not form a departure from the spirit of the invention, as defined by the appended claims.

Having thus described the invention, the following is claimed as new and useful, and upon which Letters Patent are desired:

1. A back rest for an initially backless board seat, comprising a pair of transversely spaced standards, a seat back of flexible material connected between upper portions of the standards, and a binding yoke on the lower end of each standard defining an opening facing forwardly of the seat whose height is slightly greater than the thickness of the seat so that the yoke may initially freely straddle the seat from its rear edge; each standard and yoke being integral and of metal rod, and each yoke being of generally U-shape and inclined laterally outwardly and downwardly relative to the corresponding standards so that the top and bottom legs of said yoke are laterally spaced and bind downward and upward, respectively, on the seat when the standards are substantially vertical upon laterally inward tension being imparted to the standards from the seat back.

2. A back rest, as in claim 1, in which each standard includes a forwardly and downwardly inclined portion directly above the top leg of the corresponding binding yoke, and a reinforcing and hand hold web secured between said inclined portion and top leg.

3. A back rest for an initially backless board seat comprising a pair of transversely spaced rigid standards, a seat back of flexible material connected between the upper portions of the standards, and a yoke on the lower end of each standard comprising vertically spaced legs providing opposed transversely extending vertically spaced edges for seat engagement and defining a horizontal opening whose direct height between said edges is slightly greater than that of the seat so that the yoke may initially straddle the seat; the lines of direct height of the openings of the two yokes if extended intersecting each other centrally between the standards and at a downwardly facing angle when the standards are substantially vertical and the back is substantially taut whereby the points of engagement of the upper legs of the yokes with the seat are then laterally inward of the points of engagement of the lower legs with the seat, so as to provide a binding action against the seat upon pressure being exerted on the standards in a direction to draw the upper ends thereof toward each other.

4. A back rest as in claim 3, in which each yoke comprises a block, said block being transversely slotted to provide the corresponding legs and seat straddling opening, and the legs forming parallel surfaces at the top and bottom of each slot inclining laterally inwardly and downwardly so that the upper laterally inward edge and the lower laterally outward edge of each yoke bind downward and upward, respectively, on the seat upon laterally inward tension being imparted to the standards by the seat back.

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