

Jan. 28, 1930.

S. BERMAN

1,744,736

ATTACHMENT FOR CHAIRS

Filed Oct. 25, 1928

2 Sheets-Sheet 1

Fig. 1.

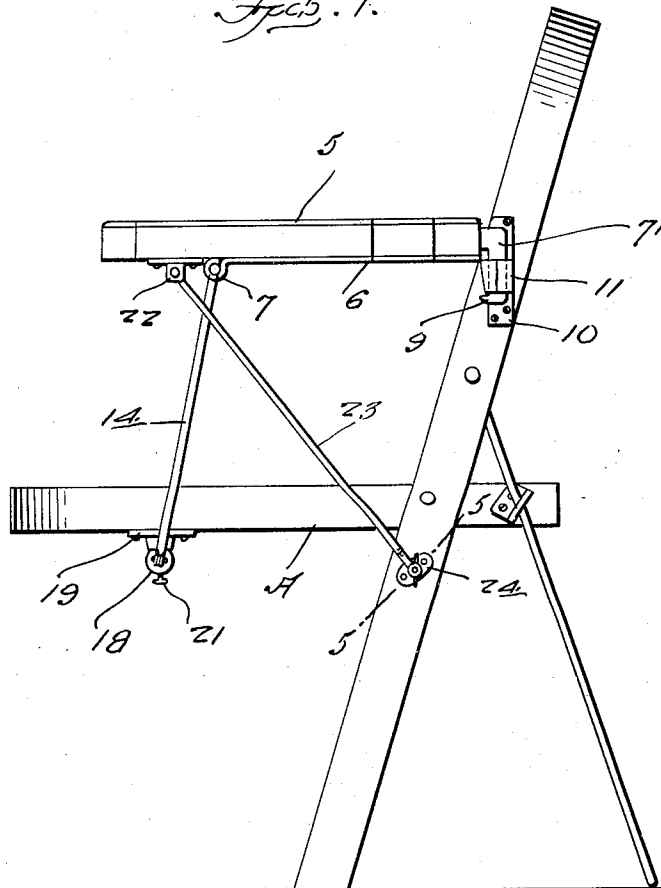


Fig. 4.

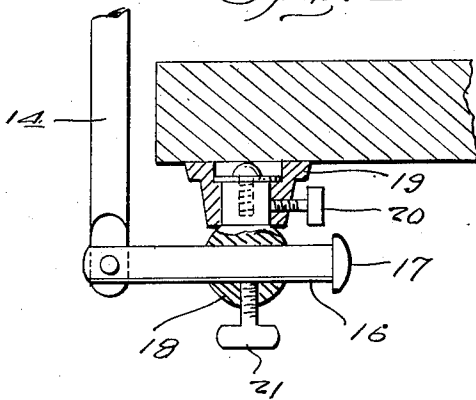
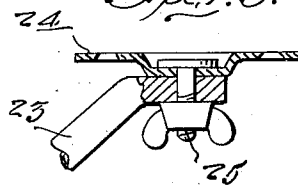


Fig. 5.



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2 Sheets-Sheet 2

Fig. 2.

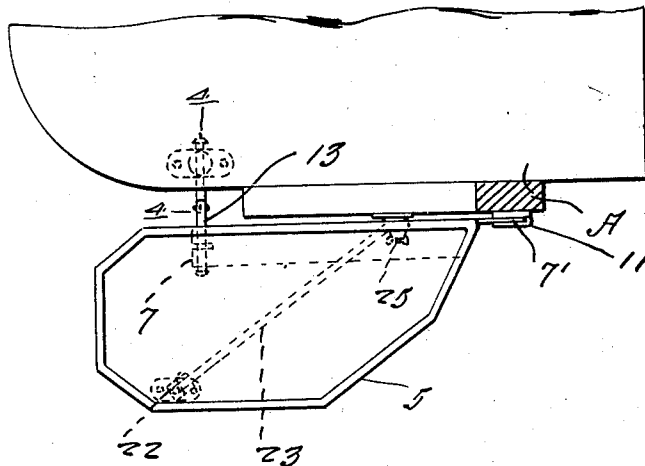


Fig. 3.

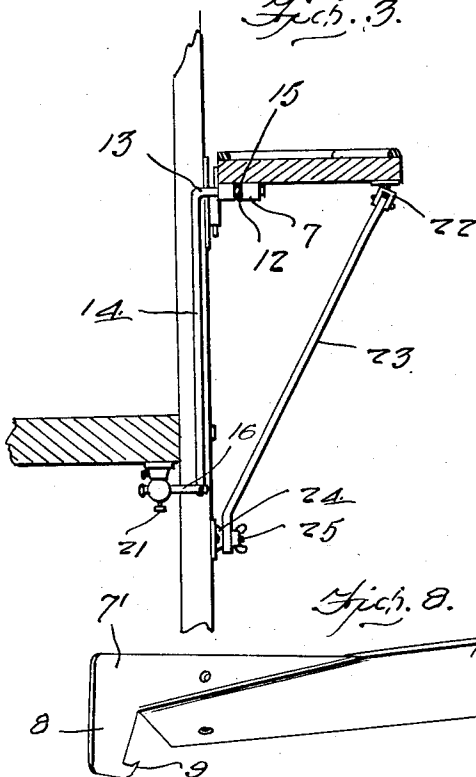


Fig. 6.

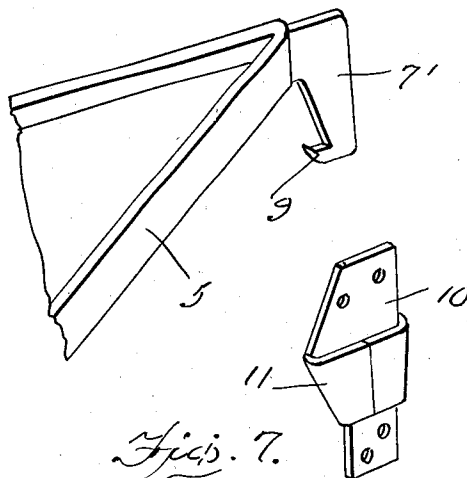
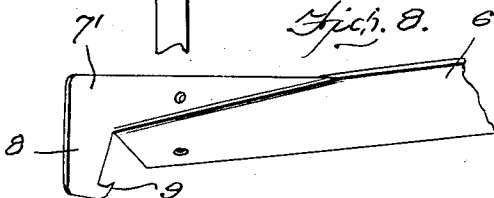


Fig. 7.

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Fig. 8.



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UNITED STATES PATENT OFFICE

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ATTACHMENT FOR CHAIRS

Application filed October 25, 1928. Serial No. 314,978.

This invention relates to new and useful improvements in chair attachments and aims to provide a device constructed for association with a generally conventional armless and folding chair whereby to provide a lunch tray, writing board, and the like for the chair.

One of the foremost objects of this invention is to provide a tray attachment for chairs that is simple in construction that may be associated with the chair in a quick and easy manner and wherein the tray itself may be swung out of position at the side of the chair or disposed beneath the seat portion of the chair so as to not interfere with the ordinary use of the chair.

Other objects will become apparent as the nature of the invention is better understood, the same comprising the novel form, combination, and arrangement of parts hereinafter more fully described, shown in the accompanying drawing and claimed.

In the drawing wherein like reference characters indicate corresponding parts throughout the several views:

Figure 1 is a side elevation of a conventional chair equipped with my improved tray attachment,

Figure 2 is a fragmentary section through the back of the chair looking downwardly upon the attachment,

Figure 3 is a vertical section through the tray attachment positioned upon the chair which is fragmentarily illustrated,

Figure 4 is an enlarged detail sectional view taken substantially upon the line 4—4 of Figure 2 disclosing the universal supporting means adapted for association with the underside of the chair seat adjacent the edge thereof and with which is associated the tray supporting bar,

Figure 5 is a similar view taken substantially upon the line 5—5 of Figure 1 disclosing only the chair frame attaching member for the brace bar supporting the outer edge of the tray,

Figure 6 is a top side perspective of the rear end of the tray per se,

Figure 7 is a perspective of the keeper member rigidly associated with the chair frame above the member, and adapted for de-

tachable reception of a member associated with the adjacent end of the tray proper, and,

Figure 8 is an underside perspective of the outer end of said member associated with the said tray.

Now having particular reference to the drawings, A designates generally a somewhat conventional armless and folding chair with which my improved attachment is adapted for association. This attachment consists of a tray 5 of suitable size and design upon the underside and adjacent the inner edge of which is arranged a longitudinally extending metallic strap 6. The inner end of this strap being constructed to provide a sleeve 7. The outer edge of this strap adjacent the rear end of the tray 5 is bent upwardly at 7 along the inner edge of the tray, this bent portion extending beyond the rear end of the tray as clearly illustrated in Figures 2 and 6. The extreme end of this upwardly bent portion 7' of said strap is constructed to provide a downwardly extending tongue 8 the lower end of which is provided with an inwardly extending nose 9. Adapted for arrangement upon the backing frame of the chair A at one side of the chair and above the chair seat member is a tongue keeper member 10, preferably consisting of a metallic plate, the opposite vertical edges of which are provided with inwardly bent tongues to provide a tongue receiving keeper 11 and within which the tongue 8 of the tray 5 is adapted to be arranged. The nose 9 of the tongue is adapted for hooked engagement beneath the lower edge of the keeper to prevent accidental vertical movement of the same as clearly disclosed in Figure 1. The said sleeve 7 of the metallic strap 6 is slotted intermediate its ends as indicated by the reference character 12.

Rotatably mounted within this sleeve is the inwardly bent upper end 13 of a supporting bar 14 said bent end 13 providing a pintle within the sleeve. This pintle 13 at the slot 12 of said sleeve 7 is equipped with a pin 15 to prevent longitudinal movement of the pintle within the sleeve. Pivoted to the lower end of the bar 14 is an extension pin 16

having a head 17 upon the inner end thereof. This pin 16 is rotatably and slidably arranged through a bore in a spherical head 18 that is swivelly arranged at its top side within a keeper member 19, which keeper member 19 is adapted for rigid association with the underside of the seat of the chair A at the edge thereof adjacent the tray 5. A set screw 20 is threaded within the keeper 19 so as to lock the spherical head 18 against rotation with respect thereto. Further, this spherical head 18 is provided with a set screw 21 whereby sliding and rotary movement of the extension pin 16 may be prevented after the proper adjustment has been made.

Arranged upon the under side of the tray member 5 adjacent the outer edge and forward end thereof is a swivel 22 to which is pivoted the upper end of a supporting bar 23. This supporting bar is adapted to be extended downwardly, inwardly and rearwardly with respect to the tray 5 and to be detachably secured to a bracket member 24 rigidly attached to the chair frame slightly beneath the seat member of the chair.

As clearly illustrated in Figures 3 and 5, the lower end of this bar 23 is bent slightly outwardly so as to have flush engagement with the bracket 24 to enable its proper securing to the bracket through the medium of a bolt and wingnut connection 25.

Obviously therefore, it will be seen that by releasing the set screws 20 and 21 as well as the connection 25 between the brace bars 23 and the chair frame, the tray 5 can be raised for removing the tongue 8 from the keeper member 10, after which the tray can be swung downwardly along the side of the chair beneath the seat and secured in such position so as to be out of the way.

It will thus be seen that I have provided a highly novel, simple, and efficient chair attachment that is well adapted for all of the purposes hereinbefore described.

Even though I have herein shown and described the invention as consisting of certain detail structural elements, it is nevertheless to be understood that minor changes may be made therein without affecting the spirit and scope of the appended claims.

Having thus described my invention, what I claim as new is:—

1. In a tray attachment for armless chairs, a tray member, means at the inner end of the tray member whereby to facilitate its attachment to the side of the chairback frame above the seat portion thereof, a depending supporting bar pivotally associated at its upper end with the tray member adjacent its forward end and a selectively rotatable and slidable swivel connection between the lower end of the said bar member and the seat portion of said chair.

2. In a tray attachment for armless chairs, a tray member, means at the inner end of

the tray member whereby to facilitate its attachment to the side of the chair back frame above the seat portion thereof, a depending supporting bar pivotally associated at its upper end with the tray member adjacent its forward end and a universal connection between the lower end of said bar member and the seat portion of said chair, said universal connection consisting of a member swivelly associated with the seat of the chair, a pin longitudinally slidable through said member and a pivotal connection between one end of said pin and the lower end of said bar.

3. In a tray attachment for armless chairs, a tray member, means at the inner end of the tray member whereby to facilitate its attachment to the side of the chair back frame above the seat portion thereof, a depending supporting bar pivotally associated at its upper end with the tray member adjacent the forward end and a universal connection between the lower end of said bar member and the seat portion of said chair, said universal connection consisting of a member swivelly associated with the side edge of the chair, a pin longitudinally slidable through said member and a pivotal connection between one end of said pin and the lower end of said bar, means for locking said member of the universal connection against rotation and means whereby said pin may be locked within said member.

4. In a tray attachment for arm chairs, a tray member, a depending tongue upon the inner end of said tray member, a plate provided with a sleeve arranged upon one of the rear leg members of the chair above the seat thereof and adapted to receive the tongues, a depending bar, means for pivoting said bar at its upper end to the under side of said tray adjacent its forward end, and means for adjustably connecting the lower end of the bar with the chair seat.

5. In a tray attachment for arm chairs, a tray member, a depending tongue upon the inner end of said tray member, a plate provided with a sleeve arranged upon one of the rear leg members of the chair above the seat thereof and adapted to receive the tongues, a depending bar, means for pivoting said bar at its upper end to the under side of said tray adjacent its forward end, and means for adjustably connecting the lower end of the bar with the chair seat, and a second bar member, said bar member pivoted at its upper end with the under side of the tray adjacent its forward end, and means for detachably connecting the lower end of said bar and the back frame of the chair beneath said seat member.

In testimony whereof I affix my signature.

SAMUEL BERMAN.