

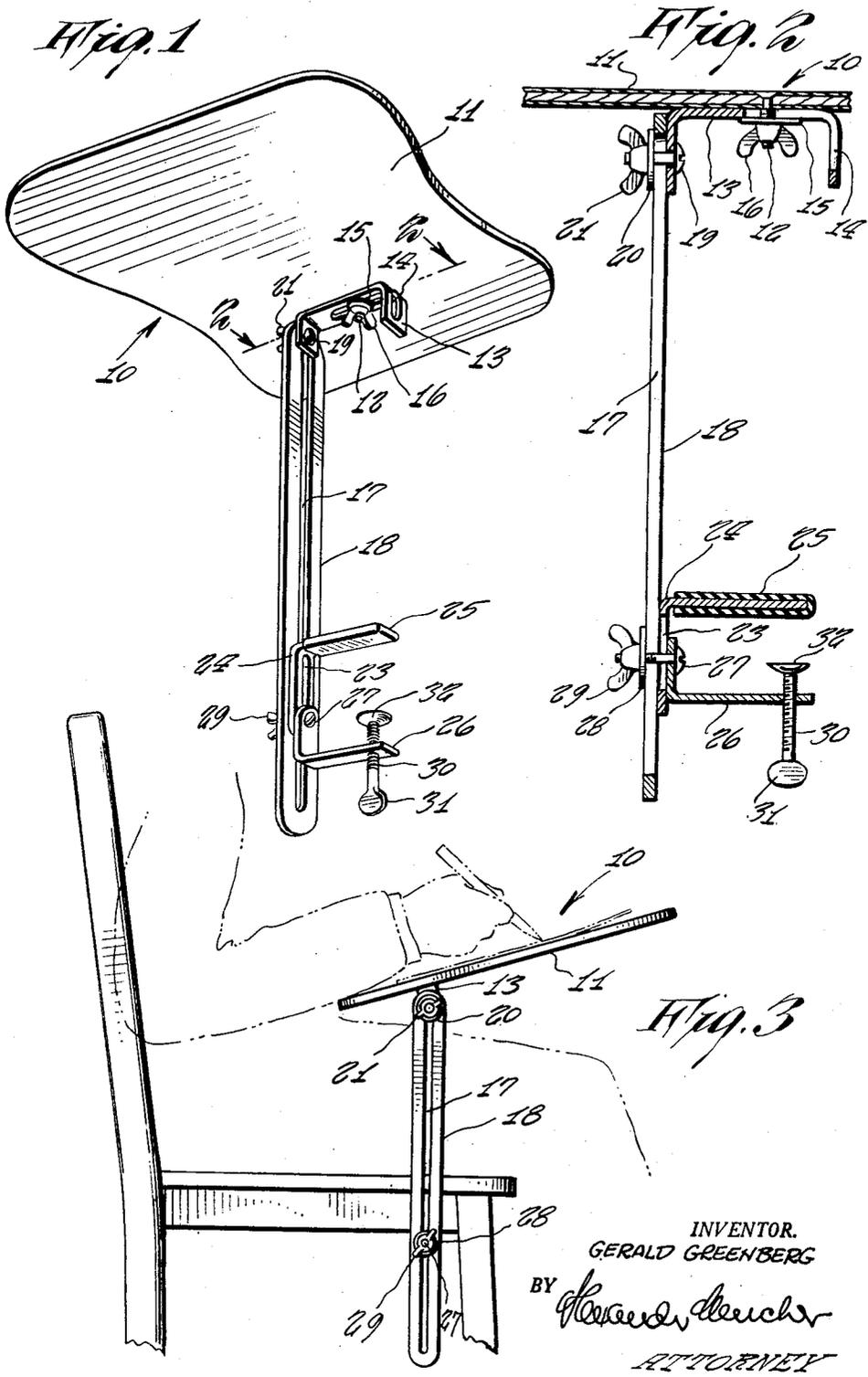
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G. GREENBERG
TABLE ATTACHMENT

2,710,051

Filed June 26, 1953

2 Sheets-Sheet 1



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2 Sheets-Sheet 2

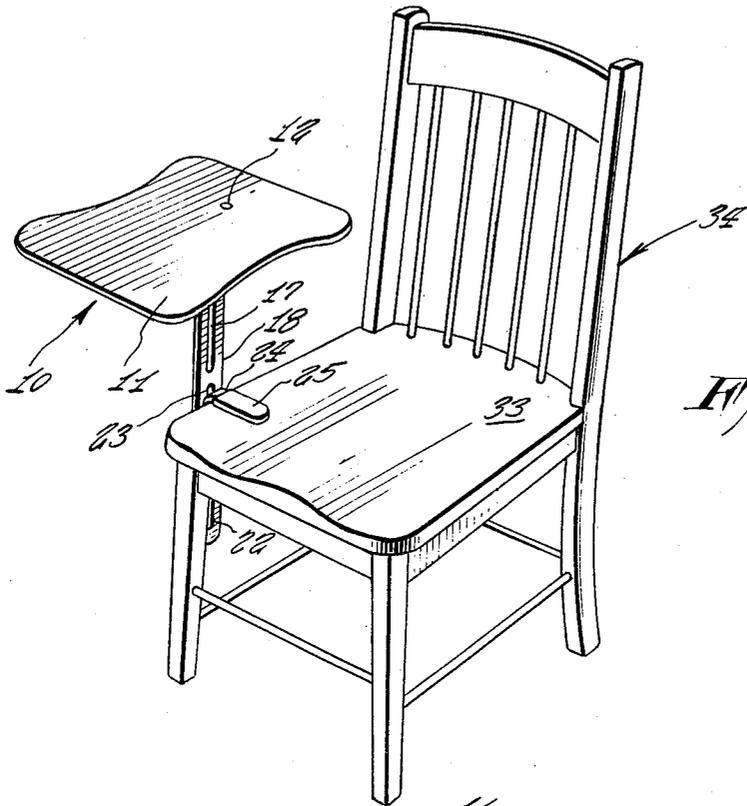


Fig. 4

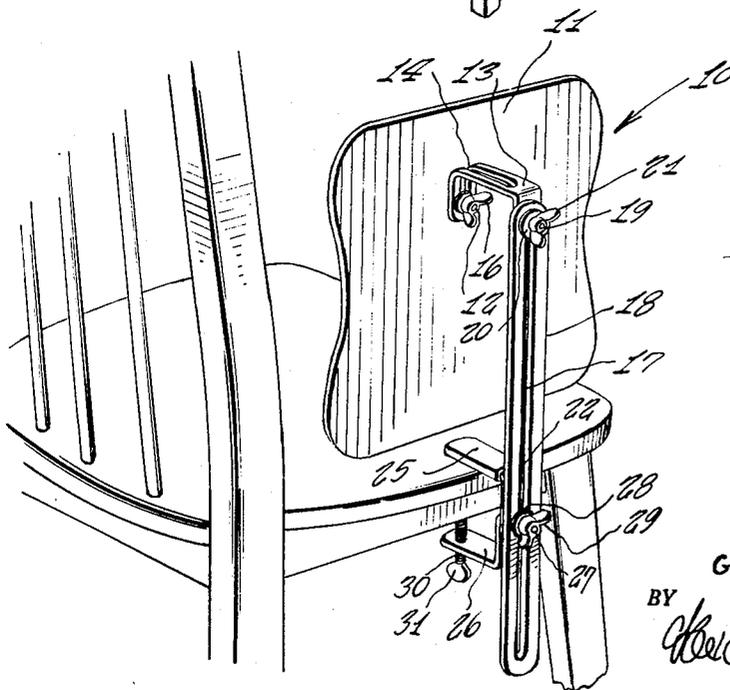


Fig. 5

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TABLE ATTACHMENT

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4 Claims. (Cl. 155--128)

This invention relates to utility surface attachments for chairs, tables, brackets, arms or the like.

It is an object of the present invention to provide an attachment for chairs, couches, tables and the like which may be quickly and readily and yet firmly secured in place, and as easily removed.

It is another object of the present invention to provide an attachment of the above type wherein the inclination of the surface may be readily adjusted and inclined to the horizontal.

It is another object of the present invention to provide an attachment of the above type wherein the surface may be rotated out of the way and into a vertical position when not in use, providing a more compact structure for storage purposes.

It is still another object of the present invention to provide an attachment of the above type which may be adjusted vertically to the convenience of the user.

It is still another object of the present invention to provide an attachment of the above type which includes an adjustable clamp which may be readily accommodated to tables, chairs and arms of varying thickness.

Other objects of the present invention are to provide an attachment for chairs or the like bearing the above objects in mind which is of simple construction, inexpensive to manufacture, has a minimum number of parts, is easy to attach and efficient in use.

For other objects and a better understanding of the invention, reference may be had to the following detailed description taken in connection with the accompanying drawings, in which:

Figure 1 is a bottom perspective view of an attachment for chairs or the like embodying the features of the present invention and shown alone;

Fig. 2 is a vertical section thereof taken along the line 2-2 of Fig. 1;

Fig. 3 is a side elevational view thereof showing the device in operative use upon a chair;

Fig. 4 is a perspective view of the device in operative position upon a chair with the writing surface in a substantially horizontal direction and

Fig. 5 is a fragmentary perspective view of the device shown in operative use upon a chair but with the surface rotated out of the way into a vertical position.

Referring now more in detail to the drawing, in which similar reference numerals identify corresponding parts throughout the several views, there is shown an attachment for chairs or the like, referred to collectively as 10, and including a surface 11 of three-ply veneer or other suitable material, substantially as illustrated.

The outer edges of surface 11 are curved to eliminate sharp edges and to provide a more attractive surface.

The surface 11 at one side is provided with a countersunk opening therethrough and in which is secured a downwardly extending screw 12 (see Fig. 2). A U-shaped clamp 13 is provided along a portion of its back and one side with an L-shaped opening 14 which receives the downwardly extending screw 12, the clamp 13 being

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secured therethrough by means of a washer 15 and wing nut 16. It will be noted that by loosening the wing nut 16, the screw 12 and surface 11 may be slid along the opening 14 until the surface 11 has been rotated 90 degrees (see Fig. 5).

The other side of clamp 13 remote from opening 14 is provided with an opening aligned with an elongated opening 17-22 provided intermediate a flat bar 18, the clamp 13 being secured to the bar 18 by means of a screw 19 passing through opening portion 17 and a washer 20 and wing nut 21, substantially as illustrated. It will be noted that by loosening the wing nut 21, surface 11 may be rotated relative to bar 18 (Fig. 3). The lower end of bar 18 is provided with opening portion 22 adapted to be aligned with a slot 23 provided in one arm of an L-shaped bracket 24. The arm remote from slot 23 of clamp 24 is provided with a rubber covering 25 for a purpose which will hereinafter become clear. A second L-shaped clamp 26 is provided in one arm with an opening adapted to be aligned with the slot 23 of arm 24 and elongated opening portion 22 of bar 18, the aforesaid elements being secured together by a screw 27 passing through said aligned openings and secured by a washer 28 and wing nut 29. The other end of clamp 26 is provided with an externally threaded opening in which is screwed a clamping stud 30 having an enlarged, flat head 31 at one end and the usual clamping foot 32 at the other.

In operation, the rubber covering 25 is slipped over the top surface of seat portion 33 of chair 34 and the clamping foot 32 tightened against the undersurface of the seat, as shown in Figs. 3 through 5. The wing nut 29 is then tightened to secure the bar 18 in any predetermined position about the axis of screw 27, the height of surface 11 being adjusted by movement of screw 27 in elongated opening portion 22, as will be obvious. The screw 12 is then brought into the horizontal portion of opening 14 in clamp 13, whereupon the wing nut 16 is tightened to secure the surface 11 in a substantially horizontal position. The wing nut 21 is then tightened, after the proper position of surface 11 has been attained. The arrangement is now ready for use.

It will be noted that the surface 11 may be inclined to the horizontal, as shown Fig. 3, merely by loosening wing nut 21 and making the proper adjustment before again tightening the same. Bar 18 as mentioned can likewise be adjusted for rotation about the axis of screw 27, and the height of the surface 11 may be adjusted simultaneously by loosening the wing nut 29 and moving the same with screw 27 along the opening portion 22, as will be obvious. It will also be noted that with the same adjustment the relative position of the clamps 24 and 26 may be adjusted by utilizing the slot 23 provided, to accommodate the seat engaging portions to chairs of various thickness or tables or varying thickness.

The rubber covering 25 prevents the scratching of seat 33.

After use, the portion 11 may be rotated out of the way into a substantially vertical position (Fig. 5) by simply loosening the wing nut 16 and moving the screw 12 into the vertical portion of opening 14. This provides a more compact assembly when not in use.

To remove the entire unit from the chair, it is only necessary to loosen the clamping screw 30 by means of the head 31 thereof, as will be obvious. The unit may then be mounted upon another chair, couch or table in a similar manner. As shown in Fig. 5, the tabular portion may be brought into a substantially parallel relationship with the bar 18 when the unit is completely detached from the chair, providing a more compact unit for carrying purposes.

While various changes may be made in the detail construction, it shall be understood that such changes shall be

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within the spirit and scope of the present invention as defined by the appended claims.

I claim:

1. An attachment for chairs or the like comprising a flat surface, a support for said surface, adjustable means at the bottom of said support for securing the latter to the seat of a chair or the like in a plurality of axially and rotatably adjustable positions, means at the top of said support for securing the same to the said surface in a plurality of rotatable positions about intersecting axes, means for moving said surface into substantially parallel relationship with said support when not in use, said adjustable means for securing the bottom of said support to the seat of a chair or the like comprising a substantially U-shaped clamp adapted to straddle the edge of the seat of the chair, a clamping screw carried by one arm of said U-shaped clamp and adapted to be screwed against one surface of the seat, the central portion of said clamp having a slot, the bottom portion of said support having an elongated opening portion adapted to be aligned with said slot in said U-shaped clamp, releasable fastening means for adjustably securing the central portion of said U-shaped clamp to said support located in said aligned slot and said elongated opening portion, said U-shaped clamp consisting of a pair of substantially L-shaped brackets in overlapping relation, one of said L-shaped brackets having an opening adapted to be aligned with said elongated opening portion in said support, the other of said L-shaped brackets having a slot adapted to be aligned with said first opening portion and said opening whereby to vary the distance between the arms of said U-shaped clamp.

2. An attachment for chairs or the like comprising a flat surface, a support for said surface, adjustable means at the bottom of said support for securing the latter to the seat of a chair or the like in a plurality of axially and rotatably adjustable positions, means at the top of said support for securing the same to the said surface in a plurality of rotatable positions about intersecting axes, means for moving said surface into substantially parallel relationship with said support when not in use, said adjustable means for securing the bottom of said support to the seat of the chair or the like comprising a substantially U-shaped clamp adapted to straddle the edge of the seat of the chair, a clamping screw carried by one arm of said U-shaped clamp and adapted to be screwed against one surface of the seat, the central portion of said clamp having a slot, the bottom portion of said support having an elongated opening portion adapted to be aligned with said slot in said U-shaped clamp, and releasable fastening means for adjustably securing the central portion of said U-shaped clamp to said support located in said aligned slot and said elongated opening portion, said means for securing the upper end of said support to said surface comprising the upper end of said support having an elongated opening portion, a substantially U-shaped bracket, one arm of said bracket having an opening adapted to be aligned with said elongated opening portion in the upper end of said support, releasable fastening means within said aligned opening and opening portion, the other arm and bight portion of said U-shaped bracket having an opening therethrough, said surface having an opening adapted to be aligned with said opening in said other arm, and releasable fastening means within said aligned openings.

3. An attachment for chairs or the like comprising a flat surface, a support for said surface, adjustable means at the bottom of said support for securing the latter to the seat of the chair or the like in a plurality of axially

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and rotatably adjustable positions, means at the top of said support for securing the same to the said surface in a plurality of rotatable positions about intersecting axes, and means for moving said surface into substantially parallel relationship with said support when not in use, said adjustable means for securing the bottom of said support to the seat of a chair or the like comprising a substantially U-shaped clamp adapted to straddle the edge of the seat of the chair, a clamping screw carried by one arm of said U-shaped clamp and adapted to be screwed against one surface of the seat, the central portion of said clamp having a slot, the bottom portion of said support having an elongated opening portion adapted to be aligned with said slot and said U-shaped clamp, and releasable fastening means for adjustably securing the central portion of said U-shaped clamp to said support located in said aligned slot and said elongated opening portion, said means for securing the upper end of said support to said surface comprising the upper end of said support having an elongated opening portion, a substantially U-shaped bracket, one arm of said bracket having an opening adapted to be aligned with said elongated opening portion in the upper end of said support, releasable fastening means within said aligned opening and opening portion, the other arm and bight portion of said U-shaped bracket having an opening therethrough, said surface having an opening adapted to be aligned with said opening in said other arm, releasable fastening means within said aligned openings, said means for rotating said writing surface into a substantially parallel relationship with said support when not in use comprising said U-shaped bracket, the top and side of said U-shaped clamp having an elongated, substantially L-shaped opening, said releasable fastening means being disposed within said L-shaped opening.

4. An attachment for chairs or the like comprising a writing surface, a depending, threaded stud fixedly carried by said surface and extending below, a substantially U-shaped bracket, a central portion of said bracket lying flush with the undersurface of said writing surface and having an elongated opening extending across a portion of a central portion thereof and continuing around one side, said threaded stud being disposed within said opening, a first wing nut on the end of said stud securing said clamp to the undersurface of said writing surface, an elongated supporting bar, the upper end of said supporting bar and the other side of said U-shaped clamp having aligned openings, a screw within said aligned openings and a wing nut on the end of said screw, a first L-shaped clamp having one side flush with the bottom of said support, said side having longitudinal openings aligned with said elongated opening in said support, a second L-shaped clamp lying flush with said longitudinally spaced opening and having an opening aligned therewith and with said elongated opening in said support, a screw within said aligned openings and a wing nut on the end of said screw and a clamping screw carried by the other side of said second L-shaped clamp having a clamping foot and adapted to be tightened against a chair seat opposite the other side of said first L-shaped clamp.

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