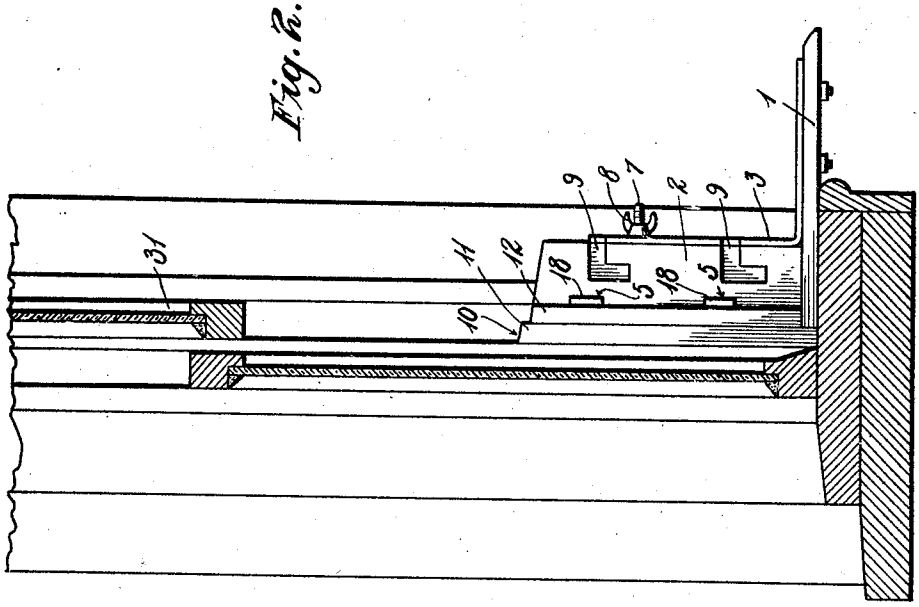
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Fig. 2.



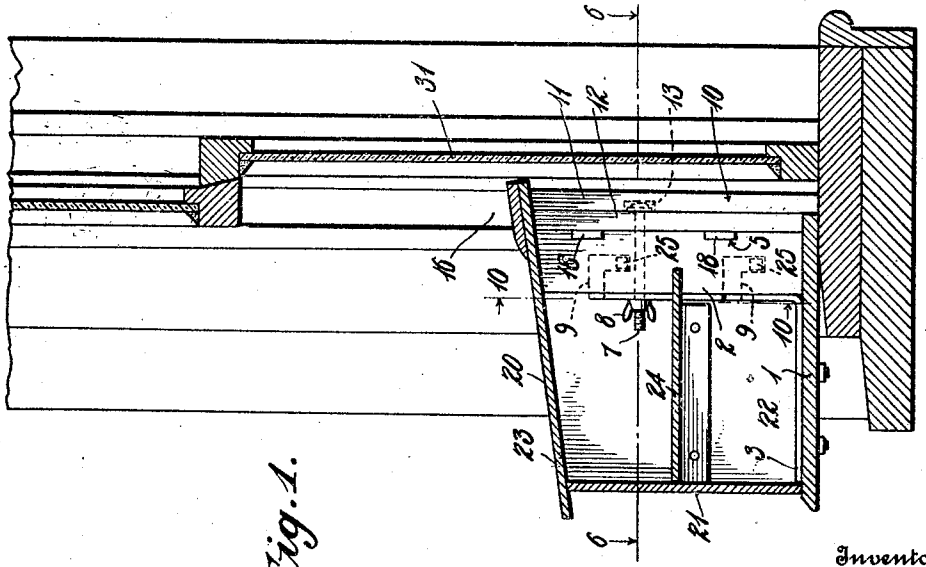


Fig. 1.

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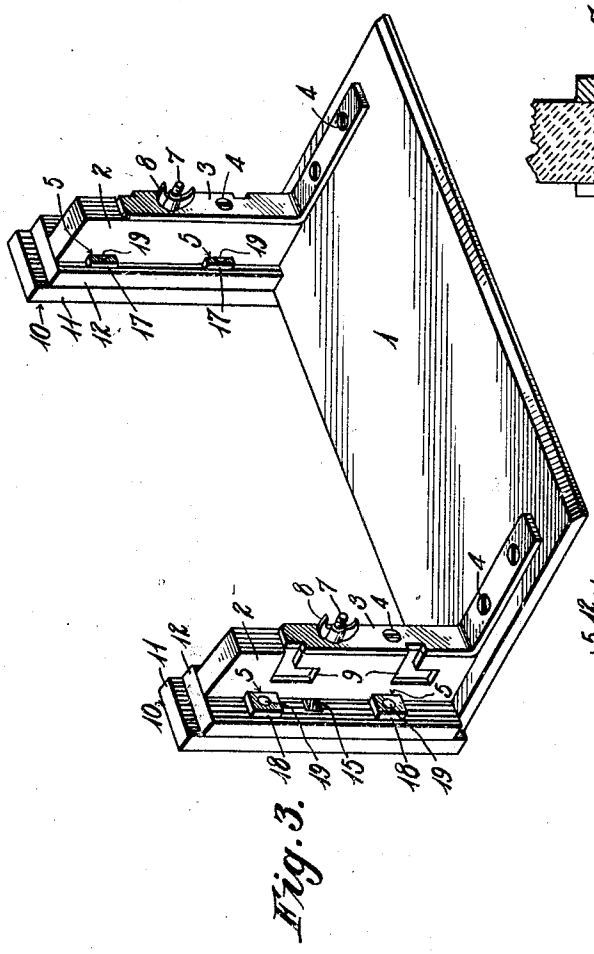


Fig. 3.

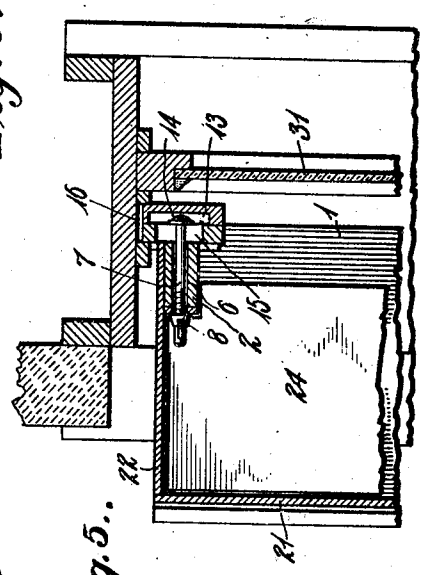


Fig. 6.

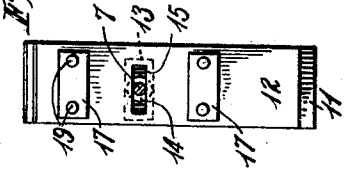


Fig. 5.

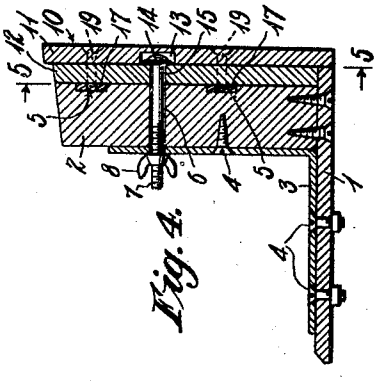


Fig. 4.

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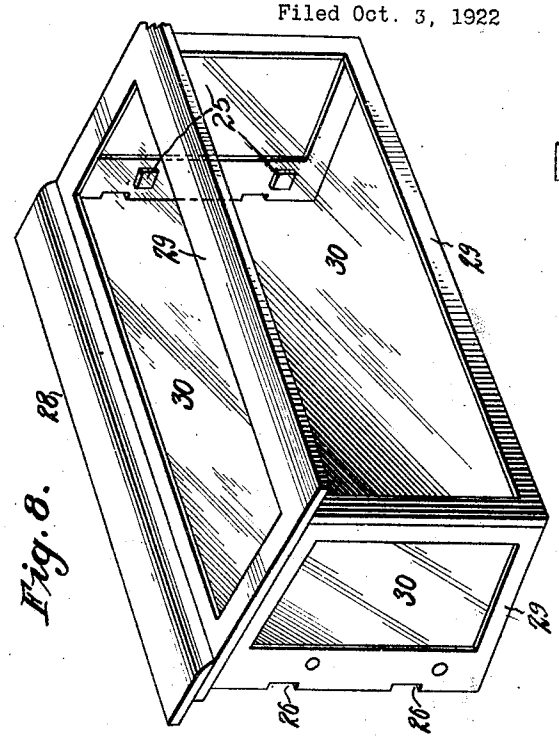


Fig. 8.

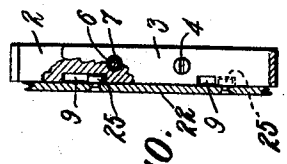


Fig. 10.

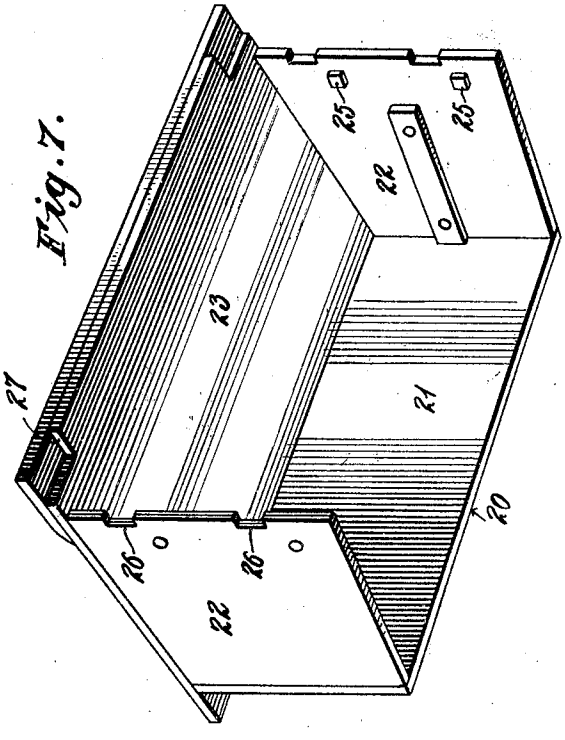


Fig. 7.

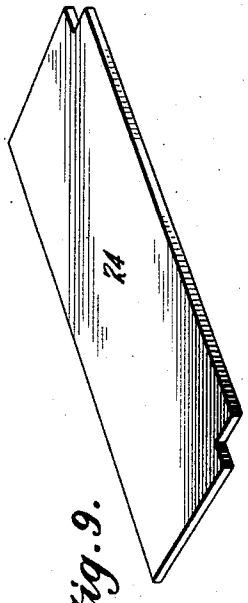


Fig. 9.

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UNITED STATES PATENT OFFICE.

ROBERT E. GROVES AND ORA B. CARNAHAN, OF CLARKSBURG, WEST VIRGINIA.

WINDOW ATTACHMENT.

Application filed October 3, 1922. Serial No. 592,169.

To all whom it may concern:

Be it known that we, ROBERT E. GROVES and ORA B. CARNAHAN, citizens of the United States, residing at Clarksburg, in the county of Harrison and State of West Virginia, have invented a certain new and useful Improvement in Window Attachments, of which the following is a full, clear, and exact description.

The object of this invention is to provide a portable window attachment in the form of a cabinet or box, for use in containing foods, and which may be arranged in a window so as to project either outside of the building or inside of the room, and which may be converted into a student's natural light study or drawing table, or a window cleaning platform, or painter's stand, or a flower or plant table or stand, or a glass equipped hot-house for starting and maturing early plants, the device being capable of being placed securely in position in a window without the use of screws or nails and without interfering with the opening and closing of the window.

The invention consists of a portable stand having a bottom provided with sliding cleats adapted to engage a window frame and to be clamped therein in such engagement so as to be secure against accidental displacement, and a detachable cover, as we will proceed now to explain and finally claim.

In the accompanying drawings illustrating the invention, in the several views of which like parts are similarly designated, Figure 1 is a vertical section illustrating the device projecting outside of the building. Fig. 2 is a similar view showing the device arranged inside of a room and without the cover. Fig. 3 is a perspective view of the stand detached. Fig. 4 is a vertical section through the connecting means. Fig. 5 is an inside elevation of the connecting means taken on line 5—5 of Fig. 4. Fig. 6 is a horizontal section taken substantially in the line 6—6, Fig. 1. Fig. 7 is a perspective view of the closed cover. Fig. 8 is a perspective view of the glazed cover. Fig. 9 is a perspective view of a shelf. Fig. 10 is a partial cross section and sectional elevation on the line 10—10 of Fig. 1.

The bottom or platform 1 is made of suitable material and of proper depth for the purposes of the device and of the width to fit within the window opening. On opposite sides of this bottom are erected posts 2 preferably braced by angle irons or brackets 3 which are secured to the bottom and the posts by screws or bolts 4. The fronts of these posts are provided with the transverse grooves 5, and they are pierced from front to rear with holes 6, shown more especially in Figs. 4 and 6, to receive bolts 7 having thumb-nuts 8 which take their bearings against the brackets 3. The sides of the posts and brackets are provided with the L-shaped grooves 9.

The connecting means include sliding cleats 10, one for each post, and these cleats are preferably made of two parallel pieces 11 and 12, the outer pieces 11 being provided with transverse grooves 13 to receive the heads 14 of the bolts 7 and the inside pieces 12 provided with transverse slots 15 aligned with the grooves 13 so that these cleats may be moved sidewise in order to adjust them to the grooves 16 in the window frames in which the window sashes are movable up and down. By tightening the nuts 8 on the bolts 7, these cleats may be clamped to the posts in any given lateral adjustment with relation to the posts, so that one of the devices equipped with them may be used in windows of different widths within the maximum lateral extension of these cleats beyond the bottom 1. The inner pieces of the cleats are provided with transverse battens 17 and 18 to cooperate with the transverse grooves 5 in the posts 2 to insure parallel motion. The outer pieces 11 of the cleats are longer at both ends than the inner pieces 12 so as to overlap the edge of the bottom 1 at the bottom and to overlap at the top the cover hereinafter described. The pieces 11 and 12 may be united in any suitable way so as to make them practically solid, and we have herein shown them united by means of screw bolts 19, Fig. 4, engaging the battens 17.

In our scheme of a convertible device which can be secured in a window without the use of screws or nails, it is important that the operative parts be consolidated and minimized. In our invention there are no exposed slots in the cleat adjustment features; only one bolt on each side is necessary; the adjustable cleats are wholly separate from the cover; there is no strain placed on the cover by the cleats and bolts; the heads of the bolts are concealed; the bolts may not

fall out of place when loosened or their nuts detached; making the cleats in two parts permits the concealing of the bolt heads and the permanent attachment of the bolts and cleats, and the use of the posts to support the cleats and take the strains admits of a simple and readily operable lateral adjustment of the cleats into and out of the window frame grooves. These and other advantages are designedly incident to the construction referred to.

The structure having the features so far described may be used for a variety of purposes, as for example, as a platform on which a window washer or a painter may sit or stand, or it may be arranged so as to project into the room, as shown in Fig. 2, in order to form a table for a student or other person requiring strong natural light for working purposes, but a primary object of the invention is to utilize the device for keeping or protecting food, and for this purpose a cover 20 may be used, having a closed end 21, opposite sides 22, and closed top 23. A shelf 24 may be provided also and supported on the sides of the cover, or any number of such shelves may be used. The sides 22 of the cover are provided with lugs 25, Figs. 1, 7, 8 and 10, which are adapted to enter the grooves 9 by horizontal movement and then dropped down into the bottom of these grooves to lock the cover on to the posts and over the bottom 1. To provide for the battens 17 and 18 the front edges of the sides of the cover are notched at 26, and to provide for the upper ends of the cleats, the cover may be notched as at 27 at both ends.

A cover such as just described is useful when the device is to be employed for the keeping of food; but when the device is to be used as a hot-house or for sun-cooking purposes, said cover may be replaced by a glazed cover, such as shown in Fig. 8, and designated 28, such a cover being made up of suitable wooden or other framing 29, provided at top, end and sides with panes of glass or other transparent or translucent material 30.

As will be noticed in Figs. 7 and 8, the tops of the covers have an overhang extending toward the front, and this for the purpose of covering in the cleats and to make as close contact with the glazed window sash 31 as possible. When the window sash 31 is shut down in front of the device, as illustrated in Fig. 1, it serves as a substitute for a door or other closure for the device, and thus dispenses with the necessity for a separate closure for the device. When the device is placed on the inside of a room as shown in Fig. 2, the bottom sash may be raised and the top sash lowered in order to close the window opening.

It will be noted by comparison of Figs. 1 and 2, that when the device is to be used on the outside, the cleats are arranged in the grooves of the upper sash, while when the device is used inside the room, its cleats are arranged in the grooves of the lower sash.

In addition to the uses described for our invention, it may be added that it may afford supports for a board or other platform for workmen engaged in work on the outside of the house, thus serving as a sort of scaffold platform or as an element of scaffolding.

When the cover is engaged with the grooves 9 in the posts 2 as already described, its side and end edges contact with the bottom 1 to make a sufficiently tight joint to exclude flies and other insects, and its top rests upon the upper ends of the posts and is in contact with the upper ends of the cleats to make similar tight joints at these points. After the cover is in place and its lugs 25 are settled in the bottoms of the grooves 9, then the nuts 8 are turned up so as to draw the cleats tight against the posts and in proper position in the sash grooves of the window frame, and so the device is held in position in the window against the possibility of accidental displacement, and without the use of screws or nails as fastening means. This dispensing with the use of screws, nails or other similar fastening devices avoids marring the window frame, and not only so, but provides for the ready portability of the device. Obviously the device may be put in position and with equal facility removed by the proper manipulation of the cleats.

The invention is susceptible of a variety of alterations in structure from what has been described, and also in changes in details so long as the principle of the invention as herein explained and hereinafter claimed is present.

What we claim is:—

1. A window attachment having a platform bottom, upright posts fixedly secured to said platform bottom near one longitudinal edge thereof and opposite one another, slidable cleats applied longitudinally to the fronts of said posts and provided with internal concealed transverse grooves to admit of lateral adjustment of the cleats on the posts to fit in the sash grooves of windows of different width, and bolts having their heads in said grooves and their shanks extending through the posts and provided with nuts to secure the cleats in lateral adjustment.

2. A window attachment, having a platform bottom, upright posts fixedly secured to said platform bottom near one longitudinal edge thereof and opposite one another, slidable cleats applied longitudinally to the fronts of said posts and provided with internal concealed transverse grooves to admit

of lateral adjustment of the cleats on the posts to fit in the sash grooves of windows of different width, and bolts having their heads in said grooves and their shanks extending through the posts and provided with nuts to secure the cleats in lateral adjustment, said cleats having transverse battens to engage grooves in the posts to insure parallel movement of the cleats on the posts.

3. A window attachment having a platform bottom, upright posts fixedly secured to the bottom near one longitudinal edge thereof and opposite one another, two-part cleats of different length adjustably applied to the posts, the shorter lengths being in direct contact with the posts and the longer lengths lapping over the edge of the bottom, and means for adjustably securing the cleats to the posts.

4. A window attachment, having a platform bottom, upright posts erected upon said platform bottom and within its area and arranged near one edge thereof, clamping bolts secured in said posts, cleats arranged in front of the posts and longitudinally thereof and having inner concealed transverse grooves in which the heads of the bolts are arranged and outer communicating transverse slots parallel with said grooves and through which the shanks of the bolts extend, said cleats being adjustable laterally with relation to the posts and held in adjusted position by the bolts, whereby the attachment may be securely applied in a window without the use of nails or other fastenings that would mar the window.

5. A window attachment, having a platform bottom provided with uprising side posts arranged at its front and carrying clamping bolts, and cleats arranged in front of the posts and longitudinally thereof and movably connected therewith by means of the clamping bolts, said posts having transverse grooves and the cleats having transverse battens cooperating with said grooves in the posts to insure parallel motion of the cleats.

6. A window attachment, having a platform bottom provided with uprising side posts arranged at its front and carrying clamping bolts, and cleats arranged in front of the posts longitudinally thereof and movably connected therewith by means of the clamping bolts, said cleats composed of inner and outer portions the latter being longer than the former and adapted to engage the platform at their lower ends and to engage a cover when one is used, at their upper ends.

7. A window attachment, having a platform bottom provided with uprising side posts arranged at its front and carrying clamping bolts, and cleats arranged in front of the posts and movably connected therewith by means of the clamping bolts, said posts having external L-shaped grooves, and a cover provided with inside projections adapted to engage said L-shaped grooves to connect the cover and posts and thereby enclose the platform.

8. A window attachment, having a platform bottom provided with uprising side posts arranged at its front and carrying clamping bolts, and cleats arranged in front of the posts and movably connected therewith by means of the clamping bolts, said posts having external L-shaped grooves, and a cover provided with inside projections adapted to engage said L-shaped grooves to connect the cover and posts and thereby enclose the platform, and said cover engaged by the upper ends of the cleats to lock it in place when the clamping bolts tighten the cleats to the posts.

In testimony whereof we have hereunto set our hands this 2 day of October A. D. 1922.

ROBERT E. GROVES.
ORA B. CARNAHAN.