May 12, 1931. W. H. AVERILL 1,805,352

DISPLAY STAND

Filed May 2, 1928

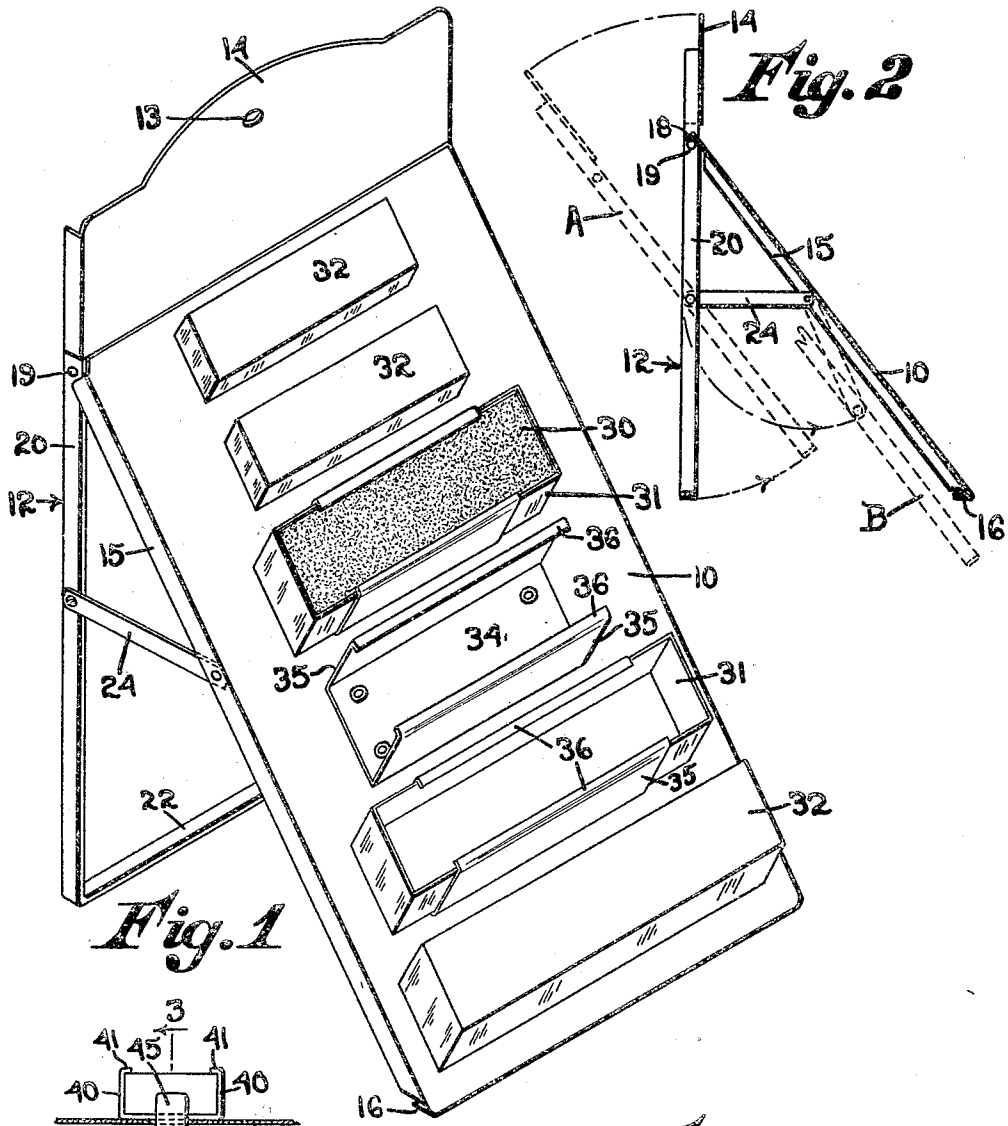


Fig. 1

Fig. 2

Fig. 4

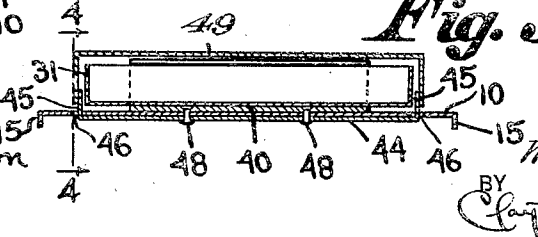


Fig. 3

WITNESS
Harold W. Eaton

INVENTOR
W. H. Averill
BY
Clayton R. Jenkins
ATTORNEY

Patented May 12, 1931 1,805,352

UNITED STATES PATENT OFFICE

WILLIAM H. AVERILL, OF DORCHESTER, MASSACHUSETTS, ASSIGNOR TO PIKE MANUFACTURING COMPANY, OF PIKE, NEW HAMPSHIRE, A CORPORATION OF NEW HAMPSHIRE

DISPLAY STAND

Application filed May 2, 1928. Serial No. 274,373.

This invention relates to display stands and more particularly to a portable stand adapted to display a number of articles intended to be sold in a store.

In accordance with standard store methods involving the sale of such articles as sharpening stones for cutlery, it is desirable to make an attractive display of a number of boxes containing them, but at the same time to take some precaution to prevent surreptitious removal of any of the goods on display.

It is accordingly the chief object of this invention to provide a display stand which is simple in its construction, which may be folded to a small compass, which may be hung up as a wall display, and which is so constructed and arranged that articles supported thereon will be securely held in place and the danger of unauthorized removal of any one of them will be minimized.

With this and other objects in view, as will be apparent to one skilled in the art, this invention resides in the combination of parts set forth in the specification and covered by the claims appended hereto.

Referring to the drawings which illustrate two embodiments of this invention;

Fig. 1 is a perspective view of a display case adapted for holding a number of sharpening stones, the boxes of goods being shown in various conditions to illustrate the manner of supporting the stones;

Fig. 2 is a side elevation of the display stand showing in dotted outline how the same is folded, but with the goods fastening devices removed;

Fig. 3 is a section on the line 3—3 of Fig. 4 showing a modification of the stand arranged to prevent removal of the box from the stand after the cover has been removed; and

Fig. 4 is a sectional view taken on the line 4—4 of Fig. 3, with the cover removed.

Referring now to the embodiment of the invention illustrated in Figs. 1 and 2 of the drawings, the folding stand may comprise a supporting metal plate 10 hinged to a back frame 12 and adapted to be set up on a table as an easel to support the goods thereon. It is desirable that the device be so constructed that the supporting plate 10 may be swung to a position parallel with the back frame 12 to permit it to be suspended on the wall by means of a nail or the like passing through the hole 13 in the top 14 of the frame. For this purpose, the plate 10 is removably and adjustably hinged to the back so that the parts may be readily placed in either of the two desired positions.

As illustrated, the front plate 10 may consist of a single sheet of metal or the like having flanged sides 15 which give strength to the plate and flanged bottoms 16 which form a foot or rest adapted to engage the surface of a table. The upper portion of the plate is turned over to form a further flange 18 and this flange is adapted to hook over a pin 19 which extends from the vertical post 20 forming one side of the frame 12 to a similar post forming the other side.

As clearly shown in Fig. 1, this frame 12 consists of a loop of metal made up of the upright frame members 20 connected by the cross bar 22 forming a supporting foot and the flange metal plate 14. The top plate 14 is spaced from the pin 19 so as to leave room for the hook shaped end 18 to pass beneath the plate 14 and over the pin 19 to form a hinge therewith. The plate 10 is further fastened to the frame 12 by means of links 24 pivotally mounted at each end and permanently connecting the flanges 15 with the upright members 20 of the frame.

It will now be seen that the frame may be set up as an easel as shown in Fig. 1 or the parts may be folded so that the frame 12 and the plate 10 are parallel with each other. To fold the stand, the hinge formed by parts 18 and 19 is unhooked and the back frame 12 is tilted into position A shown by dotted lines in Fig. 2; thereafter the frame 12 and the links 24 are swung downwardly into position B as shown in the drawing so that the frame 12 will then lie closely adjacent to the plate 10.

It will be appreciated that the blank space on the metal top 14 and the surface of the plate 10 are serviceable for advertising display. It will be further noted that the parts 10 and 12 are permanently connected together by the links 24 and that these links serve to

hold the plate 10 and the goods carried thereby when the device is hung from the wall.

A further feature of this invention involves an arrangement for holding the sharpening stones in position and preventing their removal except in a manner which would readily attract the notice of the shopkeeper if any attempt were made to do this surreptitiously. The particular articles illustrated, which are knife sharpening stones, are shaped as parallelepipedons. Ordinarily, the sharpening stone 30, made up of bonded abrasive granules, is held in a pasteboard box 31 provided with a cover 32, the cover being shaped substantially the same as the box and adapted to fit thereover as will be well understood. The safety holding device illustrated is particularly adapted for such shapes, although it will be understood that the device is capable of holding various shapes of goods and their containers.

The safety holding device, illustrated in Fig. 1 but omitted from Fig. 2 for the sake of simplicity of illustration, comprises a thin substantially U-shaped clip having a flat bottom 34 and upstanding side walls 35 which are such a size as to slidingly engage the sides of the sharpening stone box. These walls 35 are provided with in-turned flanges 36 which fit over the top edges of the box sides, as clearly shown in Fig. 1, and so prevent the box being lifted off the display stand. When the cover has been placed on the box of the sharpening stones, then the clip is entirely concealed thereby, the U-shaped clip being sufficiently thin and fitting snugly against the box sides so that the cover will fit easily thereover. The sharpening stone box cannot be moved vertically upward, nor can the box be slid sideways while the cover is on the box, since the ends of the cover will engage the edges of the vertical walls 35 of the U-shaped clip and prevent further movement thereof from the stand.

The device illustrated in Fig. 1 will ordinarily be sufficient to prevent the sharpening stones being stolen, but if it is desired to utilize further safeguards the construction illustrated in Figs. 3 and 4 may be utilized. In that case, the U-shaped clip 40 has the in-turned flanges 41 the same as shown in Fig. 1 to prevent the box being moved directly upward. In order to prevent sliding the box at all lengthwise through the U-shaped clip, a locking device is employed which engages the end of the box. Of the various constructions which may be employed for this purpose, the one illustrated is satisfactory and comprises a substantially U-shaped member 44 which is fastened to the plate 10 and has ends 45 projecting upwardly into engagement with the ends of the box. This member 44 may be riveted or otherwise secured to the under side of the plate 10 and the upstanding flanged portions 45 are arranged to project through slots 46 in the supporting plate.

The locking device 40 is preferably made of a resilient metal and the fastening rivets 48 are located at some distance from the ends thereof so that one may push downwardly on either one of the upwardly projecting flanges 45 to permit inserting the box carrying the abrasive stones into position between the two flanges. Upon releasing this member 45 it will spring up into place, as illustrated in Fig. 3, and so hold the box from longitudinal movement. In this construction, the same as in the one illustrated in Fig. 1, the cover 49 of the box is adapted to fit over the metal clips which hold the box in place and so conceal them from view. Even though one removes the box cover in this construction he will not find it feasible to slide the box lengthwise unless he pushes downwardly on the spring clip 45 and if desired these parts may be so fastened together as to render such downward movement quite difficult.

It will now be seen that, in accordance with this invention, a very simple form of display stand which is substantially theft proof has been provided, and that the device as illustrated is capable of a variety of uses and for displaying many types of articles. It can be made cheaply and easily and readily transported and handled although loaded with the articles to be placed on display. Various other advantages will be apparent to one skilled in the art.

Having thus described the invention, what is claimed as new and intended to be covered by Letters Patent is:

1. A display stand comprising a supporting plate, a U-shaped clip fastened thereon and having parallel sides spaced to hold a box closely therebetween, inwardly turned flanges on the sides of the clip arranged to engage the top edges of a box held therein, and means associated with said plate for engaging the ends of said box to prevent longitudinal movement thereof, said sides of the clip being thin and of such dimensions that the regular box cover may fit over the box supporting members and conceal them from view.

2. A display stand comprising a supporting plate, a U-shaped clip projecting upwardly therefrom and having in-turned flanges adapted to engage the sides and top edges of a box held therein, a second U-shaped clip having upwardly projecting flanges engaging the ends of the box, said clips being made of thin metal and adapted to be concealed beneath the regular cover of the box when the parts are assembled.

3. A display stand comprising a supporting plate, means thereon to engage the top edge of an article and prevent upward removal thereof and a U-shaped clip having

one end thereof resiliently mounted on the plate and engaging the ends of the article to prevent sliding it endwise.

4. A display stand comprising a supporting plate, a U-shaped clip secured thereto and having parallel side walls and in-turned flanges adapted to engage the sides and top edges of a box held therein, an upwardly projecting member engaging each end of the box, one of said members being resiliently mounted so that it may be moved out of position to permit inserting the box into said U-shaped clip.

5. A display stand comprising a supporting plate having spaced slots therein, a thin U-shaped clip secured thereto which has outstanding side members and in-turned flanges adapted to engage the sides and top edges of a box for an article to be supported thereon and to be concealed by the box cover, and a second thin U-shaped clip secured to the under side of said plate and having upturned flanges projecting through the slots in the plate, one of the flanges of the second clip being resiliently mounted so that it may be pushed downwardly to permit insertion of the box into the clips.

Signed at Boston, Massachusetts, this 28th day of April, 1928.

WILLIAM H. AVERILL.