Dec. 20, 1927. 1,653,465

A. MONTAN ET AL

CLIP

Filed Nov. 28, 1925

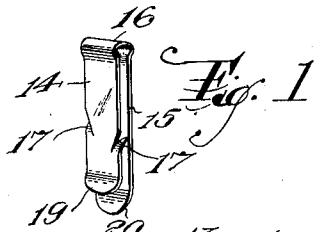
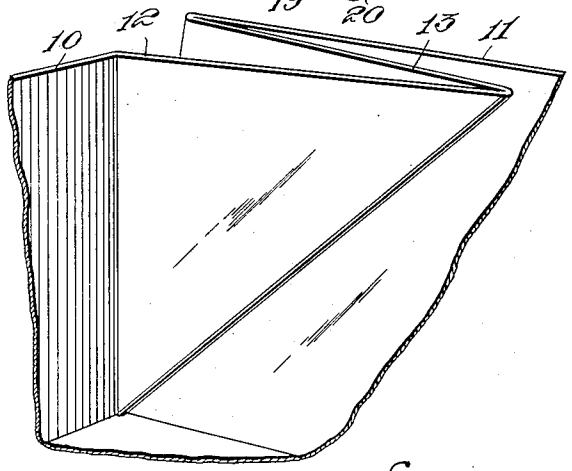


Fig. 1



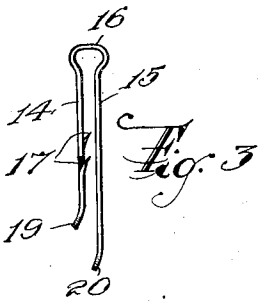


Fig. 3

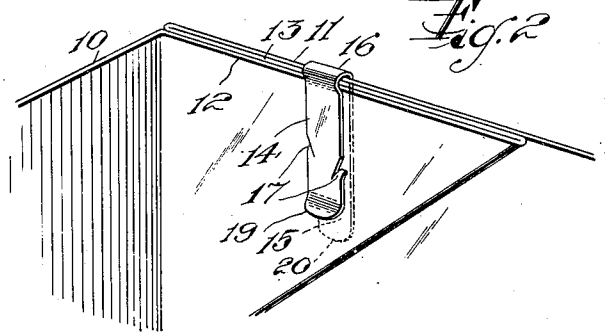


Fig. 2

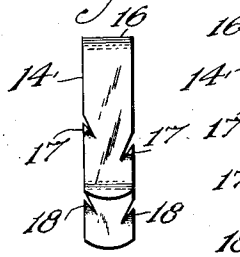


Fig. 4

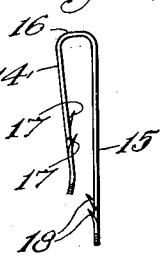


Fig. 5

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UNITED STATES PATENT OFFICE.

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CLIP.

Application filed November 28, 1925. Serial No. 71,879.

This invention relates to an improved clip and is particularly adapted for holding closely aligned folds of cardboard and the like, such as those folds that are made in the forming of the knock-down type of cardboard box and is designed to hold the box in its erected or formed position.

The object of the invention is to provide a clip of this kind which is quickly attached and which requires no compression or other manipulation but is simply slid on longitudinally and is not readily removable without effort.

The invention is illustrated in the accompanying drawing in which Figure 1 is a view of the corner of a box partly folded and with a clip embodying our invention shown above the fold and Figure 2 is a similar view showing the fold completed and a clip in position. Figure 3 is a side view of the clip shown in Figures 1 and 2. Figures 4 and 5 are a face and a side view, respectively, of a modified form of clip.

Since the clip is used usually in fastening boxes, we will describe its use in this connection. We show in the drawing a corner of a cardboard box in which the side walls 10 and 11 are formed from the same blank, these being connected by the folded parts 12 and 13 which are closely gathered as shown in Figure 2 when the box is built up into its formed or completed shape and the clip is passed down over such parts of the folds and in the drawing we show all of the folds embraced by the clip and the clip is slid on longitudinally.

The clip is made up of a sheet of metal, usually a flat strip folded over upon itself to form a return bend and in Figures 1 and 2 we show a strip bent to form the end arms 14 and 15 joined at their inner end by the loop 16, the material being substantially stiff but sufficiently resilient to permit it to be slid down over the box without tearing or marring the box to any material extent.

A broad flat strip of metal for the form of clip is preferred because in assembling the boxes the clips, which are assembled in the box, do not become tangled and do not require much time in separating them as is the case if narrow metal or wire is used, in which case much tangling results and a large amount of time is wasted in separating the articles.

The clip shown in Figures 1, 2 and 3 is provided with barbs 17 formed on the edge by slitting or punching from the edge inward and bending the metal inwardly toward the other arm 15 and projecting it toward the closed end 16 of the clip so that the clip is held against accidental removal because the barbs 17 enter the material of the box. One barb may be used but two are preferred, these being staggered, one being arranged slightly above the other so as to not weaken the metal which would be the case if they were opposite one another.

In Figures 4 and 5 we show a modified form in which the barbs 17 are supplemented by barbs 18 similarly formed but arranged on the other arm of the clip so that both the inner side and the outer side of the box are engaged by the clip to prevent removal.

These clips, it will be noted, do not provide any barbs which can injure the contents of the box which feature is desirable because these boxes are mostly used for the delivering of clothing and nothing that approximates sharp projections should be present on the inside of the box.

The ends of the arms 14 and 15 are preferably slightly turned as at 19 and 20 to provide a partly divergent opening so that the clip is easily applied, this being aided by the fact that one of the arms, as at 15, is extended somewhat lower than the end of the arm 14.

We claim:

A clip for binding the overlapping corner flaps of cardboard boxes, comprising a strip of metal bent into a return bend to receive the said flaps and having barbs struck up from edges and inclined toward the closed end of the clip, the barbs being pointed and inclined inwardly to prevent removal of the clip after it is applied.

In testimony whereof we affix our signatures.

ADOLPH MONTAN.
HENRY W. FALSTROM.