June 25, 1935. G. B. WEBER ET AL 2,006,224

DEVICE FOR AND METHOD OF PACKING AND PROTECTING OBJECTS

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Fig. 1.

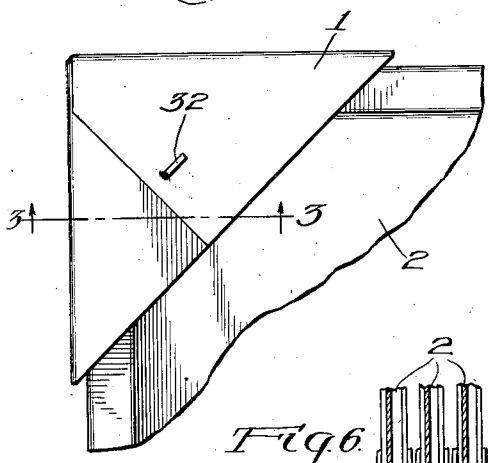


Fig. 2.

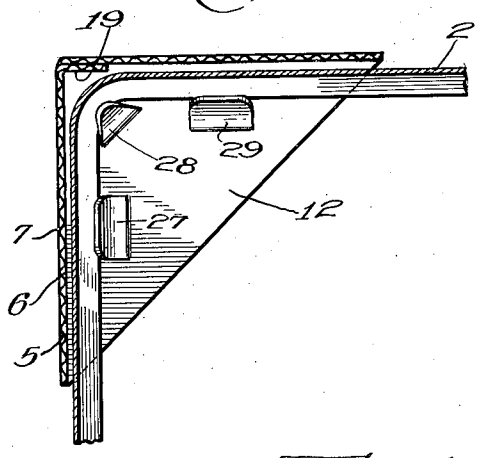


Fig. 6.

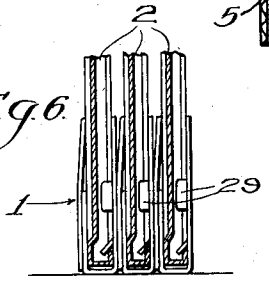


Fig. 3.

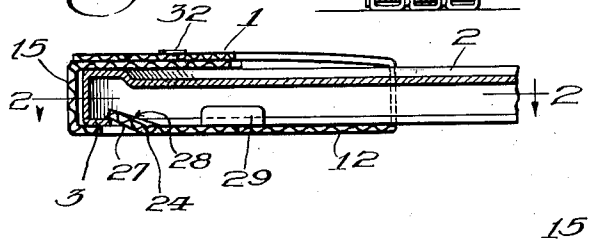


Fig. 4.

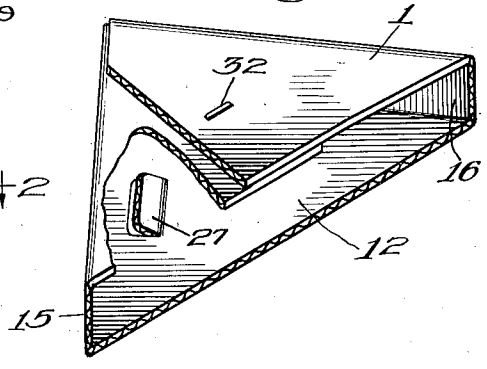
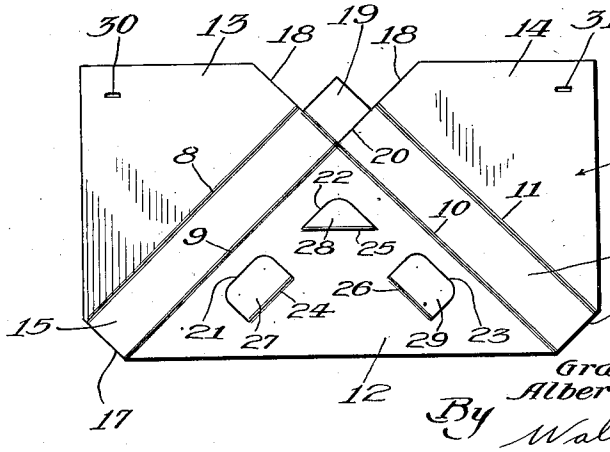


Fig. 5.



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Fig. 7.

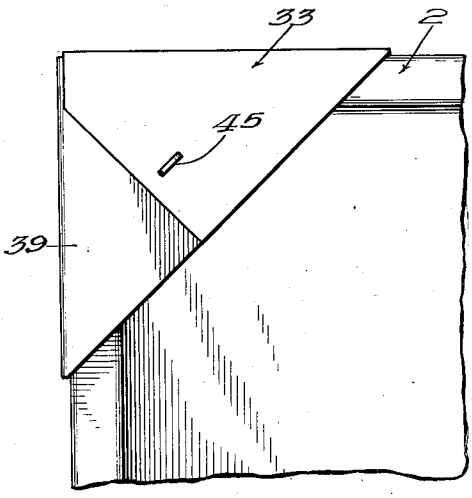


Fig. 8.

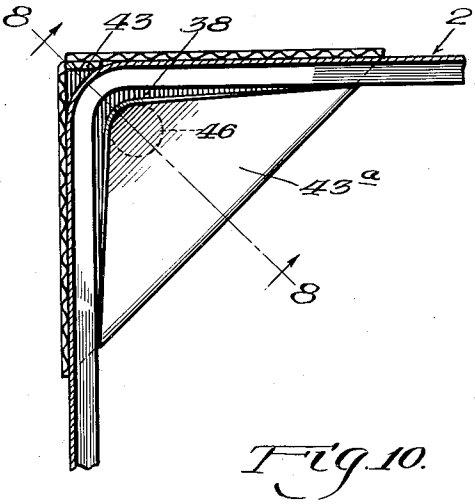


Fig. 10.

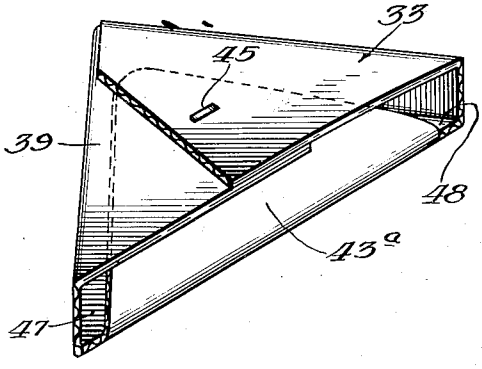


Fig. 9.

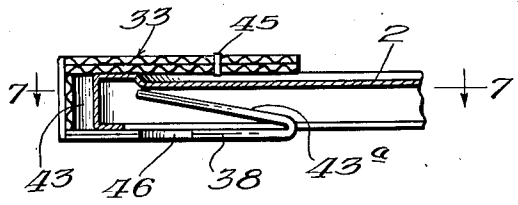
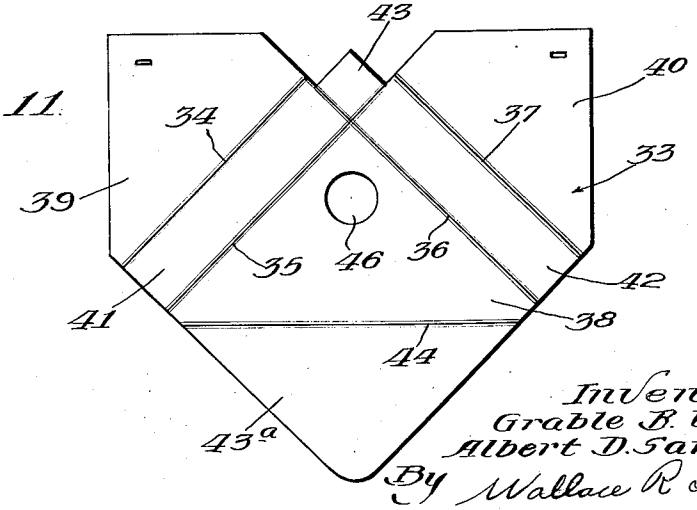


Fig. 11.



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DEVICE FOR AND METHOD OF PACKING AND PROTECTING OBJECTS

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Application October 29, 1930, Serial No. 491,824

11 Claims. (Cl. 206—60)

The present invention relates to packing and protecting devices, and more in particular to novel means for and method of covering and protecting the corners of objects, such as table tops and the like.

Among the objects of the present invention is to provide a novel protecting means which may be easily and cheaply made and readily applied to an object, such as a table top or the like, whereby certain parts of these objects are covered and protected when the same are moved, handled, or placed adjacent one another for shipment.

Another object of the invention is to provide a novel protecting means adapted to fit over certain portions of an object for protecting the same from becoming scarred, or damaged, and which provides a suitable means for separating these objects or articles when they are placed adjacent one another, as for example, when the same are stored or shipped.

The invention comprehends the idea of providing a novel protective means which may be cut or stamped from a piece of material and then pressed or stamped along predetermined lines to crease the same. These blanks or pieces of material may then be folded along the creases, and certain parts thereof secured together to produce the finished article, or these blanks may be shipped in quantities to a place where the same are to be used, at which time they may be folded, assembled, and placed upon the articles to be protected.

The invention further comprehends the idea of providing a novel corner protective piece adapted to be slipped or fitted over each of the corners of a table top having a flanged edge or projection, and which has means projecting therefrom adapted to engage the edge or projection of the top for holding the piece thereon, and in place, and for preventing the ready removal of the same. In the illustrative embodiment selected to illustrate the invention, such means comprises a tongue, or tongue portions integral with the piece of material from which the corner piece is made, the same projecting inwardly in such a manner as to permit the corner piece to be easily applied or fitted over the corner of the table top. When the corner pieces are placed over the corner of the table top, the projecting means engages the edge of the top and prevents the ready removal of the same therefrom. Although these corner pieces cover a relatively small portion of the surface of the table top, the corners thereof are effectively covered and protected and the pieces provide suitable means for spacing and separating the table tops when packed adjacent one another.

A further object of the invention is to provide a novel method of packing table tops, or other like objects, which includes the step or steps of applying these protective pieces to the corner of the table top, or other similar object or article and then placing these articles adjacent one another, these corner pieces providing separating means whereby the articles may be stored, moved or shipped without becoming scarred, marred or damaged.

Other objects, features, capabilities and advantages are comprehended by the invention, as will later appear, and as are inherently possessed thereby.

Referring to the drawings:

Fig. 1 is a fragmentary top plan view of a table, disclosing an embodiment of the present novel protective device applied to and fitting over the corner thereof.

Fig. 2 is a horizontal cross sectional view taken in a plane represented by the line 2—2 of Fig. 3 of the drawings.

Fig. 3 is a vertical cross sectional view taken in a plane represented by the line 3—3 of Fig. 1 of the drawings.

Fig. 4 is a view in perspective of an embodiment of a protective device made in accordance with the invention.

Fig. 5 is a top plan view of a blank of material from which the embodiment of the invention disclosed in Figs. 1 to 4 inclusive is formed and assembled.

Fig. 6 is a fragmentary view in vertical cross-section of a number of table tops placed adjacent one another and separated by the present novel corner protective pieces applied to the corners thereof.

Figs. 7 to 11 inclusive are views similar to the views shown in Figs. 1 to 5 inclusive, respectively, and disclose another embodiment made in accordance with the invention; Fig. 7 being taken in a plane represented by the line 7—7 in Fig. 8, and Fig. 8 being taken in a plane represented by the line 8—8 of Fig. 7.

Referring now more in detail to the drawings, an embodiment selected to illustrate the invention is shown as comprising a corner piece 1 applied to or fitted over the corner of a table top 2 having an enameled coating, or other surface finish thereon, the edge of the top being bent inwardly to provide a flange 3 forming a smooth and finished edge. The corner protective piece 1 is shown as being formed from a blank 4 cut

from a piece of cardboard having an inner corrugated filler 5, and outer smooth surface layers 6 and 7 secured thereto, although it is to be understood that any suitable material may be used in forming the present novel corner piece.

The blank 4 is pressed or creased along the lines 8 and 9, as likewise along the lines 10 and 11 dividing the piece of material into a central triangular shaped portion or bottom 12, the substantially triangular shaped corner portions 13 and 14, and the edge portions 15 and 16 between the creases 8 and 9, and 10 and 11, respectively. The lower corners of the piece of material at the ends of the edge portions 15 and 16 are cut along the lines 17, while a substantially W-shaped portion symmetrical with the transverse center line of the blank is cut out along the lines 18 to form a tab 19 integral with the edge portion 15 and extending beyond the crease 10, this tab being severed from the edge portion 16 along the line 20, which extends to and intersects the crease 10.

Novel means are provided on this outer protective piece which is adapted to project therefrom and engage with the edge of the table top for holding this piece in place upon the corner thereof and to prevent its ready removal. In order to provide such means, the central portion 12 is cut along the lines 21, 22 and 23 and pressed or stamped along the lines 24, 25 and 26 to form the tongues 27, 28 and 29, respectively, which, when the blank is assembled may be forced inwardly along the lines 24, 25 and 26, respectively, so as to project from the face of the central portion 12 and engage with the edge of the flanged edge 3 of the table top to prevent the ready removal of the corner piece after the same has been applied to or fitted over the corner of the table. Apertures or openings 30 and 31 are provided in the corner portions 13 and 14, for the reception of a securing means. Although I have described the successive steps in forming the blank 4 for the corner piece, it is of course understood that the same may be cut to the size and shape desired and stamped to provide the creases thereon, as indicated, in one operation by providing the proper die or stamp.

When the blank 4 has been formed in the manner above described, the piece of material is then folded along the creases 8, 9, 10 and 11, the corner portion 14 being folded so as to overlap an edge of the corner portion 13. These corner portions are secured together by means of a fastener, staple, or the like 32, having a shank portion passing downwardly through the aligned apertures 30 and 31 which may then be spread apart for holding these overlapping portions in place.

Any other suitable means may be used, however, for holding the corner portions together, without departing from the spirit of the invention. As the blank is being folded, the tab 19 is bent inwardly along the crease or line 10 so as to contact with the inner face of the edge portion 16 to reinforce the corner of the protecting piece.

This assembled corner piece may then be slipped or fitted over the corner of the top of the table 2, and a slight upward pressure applied to the tongue portions 27, 28 and 29, at which time the same will be forced upwardly so that the edge of the table top may engage these tongue portions, as clearly shown in Figs. 2 and 3 of the drawings, whereby the corner piece is held in place and prevented from being readily removed. The resiliency of these tongue portions when in their projected position causes the same to bear against or contact with the edge of the table top for effectively holding the corner piece in place. Should these portions resume their former position in the central portion 12, they may again be forced upwardly into an engaging position with the edge of the table top. These corner pieces not only protect the corners of the table top and prevent damage thereto, but likewise provide a means for separating adjacent table tops, as for example, when the same are stored or placed adjacent one another, as shown in Fig. 6 of the drawings, so as to prevent rubbing or movement of one upon the other. Furthermore, these corner pieces may be applied to a table top when it is desired to protect the corners of the table when the same is being moved from place to place, or stored.

The embodiment of the invention disclosed in Figs. 7 to 11 inclusive is of somewhat similar construction as that shown in Figs. 1 to 5 inclusive, and is formed from a blank 33 which is pressed or stamped along the lines 34, 35, 36 and 37, to provide a central portion 38, corner portions 39 and 40, and edge portions 41 and 42, corresponding with the portions 12, 13 and 14, and 15 and 16 of the blank 4. A tab 43 is provided at the end of the edge portion 41 and is formed in a similar manner as the tab 19 on the blank 4. The blank 33, however, varies from the blank 4 in that the same is cut to provide a tongue 43^a extending from the lower edge of the central portion 38 and adapted to be folded over this central portion along the line 44 which has been stamped or pressed.

In assembling this blank to produce the finished corner piece, the tongue 43^a is first folded over the central portion 38, after which the upper portion of the blank is folded along the lines 34, 35, 36 and 37, and the corner portions 39 and 40 brought into an overlapping position. The corner portions are secured together by a staple 45 driven through the overlapping portions thereof. A finger opening or aperture 46 is cut in the central portion 38 at the time the blank is formed, and provides means whereby the tongue 43^a may be moved or forced upwardly into the position disclosed in Fig. 8 of the drawings for locking the piece in place after the same has been fitted over the corner of the table top.

It will be noted that the tongue 43^a is formed symmetrical with the transverse center line of the blank 33 and is of a width along the line 44 substantially less than the width of the central portion 38. When the blank is assembled, as shown in Fig. 10 of the drawings, this construction of the tongue 43^a and central portion 38 provides the channel or openings 47 and 48 which permit the piece to be fitted over the flanged edge 3 of the table top.

This construction is admirably adapted for wholly or partially enveloping and protecting numerous articles besides the various forms of table tops and the like. In such articles as furniture, beds, chairs, desks, pictures, picture frames, mirrors, plate and sheet glass, windshields, auto dashes, head lamps, various forms of table and floor lamps, china, glass, porcelain and/or other dinner ware or dishes and other articles too numerous to mention, it may be desired to protect an edge, corner, projection or any other portion thereof against damage while shipping or storing the same. The invention likewise is adapted to enclose an edge or the entire article as when shipping books, book ends and other objects of a like or similar character. The retention of the protector may be by reason of the

tongue or tab engaging a projection, bead or the like, or an indentation in the object or article, or merely by the frictional contact of the tongue or tab on a surface of the object.

While we have herein described and upon the drawings shown illustrative embodiments of the invention, it is to be understood that the invention is not limited thereto, but may comprehend other constructions, arrangements of parts, details and features without departing from the spirit of the invention.

Having thus disclosed the invention, we claim:

1. In combination with a table top or the like having a flanged edge, corner pieces adapted to be slipped over the corners of said top, each of said pieces having means adapted to engage with said flanged edge for holding and locking the piece in place when fitted over said corner.

2. A packing and protective device for table tops or the like, comprising a corner piece adapted to fit over a corner of said top, said piece having a projecting tongue portion adapted to engage said top to prevent ready removal of said piece when fitted over said corner.

3. A packing and protective device, in combination with a table top or the like having a flanged edge, a corner piece adapted to fit over the corner of said top, said piece having a tongue portion projecting therefrom and adapted to engage the flanged edge of said top to hold said piece in place and to prevent its removal when fitted over said corner.

4. A corner piece for protecting the corner of a table top or the like, comprising a blank of material folded to provide a bottom, top and edge portions adapted to fit over a corner of said top, tongue portions cut in said bottom portion and adapted to project therefrom so as to engage with an edge of said top when said piece is fitted over a corner of said top.

5. A corner piece for protecting the corner of a table top or the like, comprising a blank of material having creases, said material being folded along said creases to provide a bottom, top and edge portions for covering the corner of said top, and tongue portions cut in said bottom and adapted to project therefrom.

6. A device for protecting a portion of an article, comprising a blank of material having creases, said material being folded along said creases to provide opposite sides and edge protecting portions, and a tongue on one of said sides and projecting therefrom for contacting said article and retaining the protecting device in position.

7. A corner piece for protecting the corner of a table top or the like, comprising a blank of material creased to provide a central portion, edge and corner portions, tongue portions cut in said central portion and adapted to project therefrom, said material being folded along said creases whereby said corner portions overlap, and means for securing said overlapping corner portions together.

8. A corner piece for protecting the corner of a table top or the like, comprising a blank of material creased to provide a central portion, a tongue, edge and corner portions, said tongue being folded upon said central portion, said edge and corner portions being folded over and around said tongue whereby said corner portions overlap, and means for securing said corner portions together.

9. The method of forming a protecting device for an article, comprising the steps of cutting a blank of material, creasing said material along predetermined lines, folding said material along said lines whereby to provide an inwardly projecting tongue and having the opposite corners of the blank overlap, and securing said overlapping corners together.

10. A device for protecting the corners of flanged table tops or the like from damage, comprising two side wall portions and two converging edge wall portions connected thereto to form a pocket adapted to snugly embrace a corner of the table top or the like, and a tab, integral with and extending from a side wall along an edge thereof remote from the apex of the pocket thus formed, said side wall and tab being formed of resilient material, the tab being of a length greater than the width of the edge wall portions and being adapted to be reversely bent toward the apex of the pocket whereby, when so bent, it will project into the interior of the pocket and the free edge portion of the tab will be urged to swing toward the wall opposite that on which it is supported, due to the resilience of the material.

11. A device for protecting the corners of flanged table tops or the like from damage, said device comprising a fibre or paper board blank cut and scored to provide two side walls and two edge walls whereby, when set up, a triangular shaped pocket will be formed, adapted to snugly fit on a flanged corner of the table top, one of the side walls having on its free edge a tab extension integral therewith of dimensions not greater than those of the side wall and of a length greater than the width of the edge walls, whereby it will be retained within the pocket thus formed and will be urged to swing away from its supporting side wall in the direction of the opposite wall, whereby, when forced on the flanged corner of a table top, the tab will engage behind the flange thereon and prevent ready removal of the protector, said side wall bearing said integral flap being provided with an aperture through which the finger may be inserted to depress the tab into engaging relationship with the under surface of the main body portion of the table top.

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