

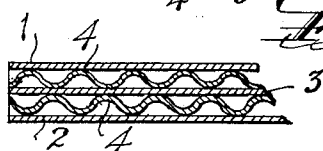
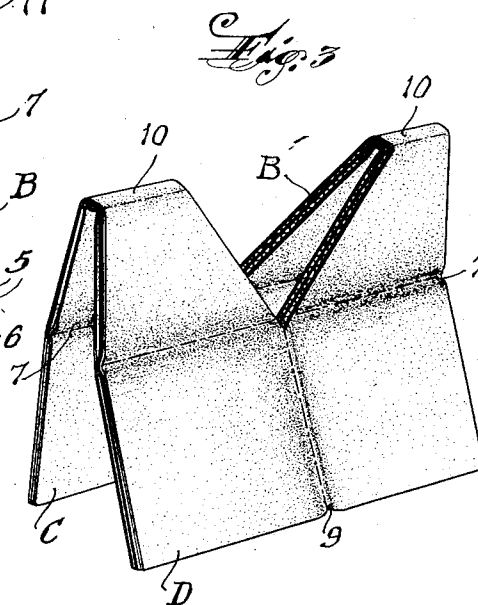
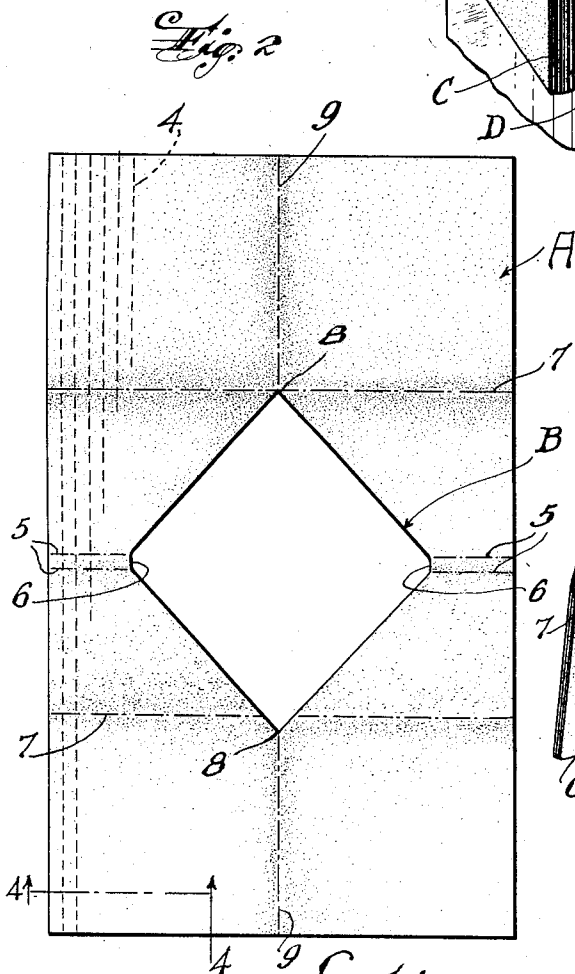
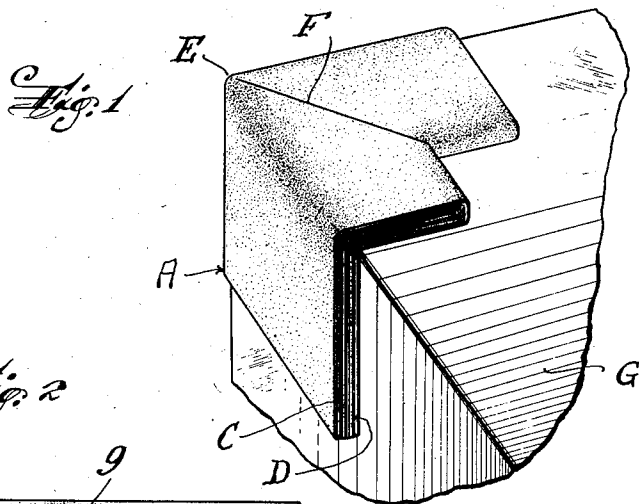
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CORNER PROTECTOR

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CORNER PROTECTOR

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4 Claims. (Cl. 206—46)

This invention relates in general to devices for protecting the corners of articles or objects, for example, desks and cabinets, and particularly the invention contemplates such a device for use in packing pieces of furniture or the like in crates or boxes for transportation.

One object of the invention is to provide a corner protector of the character described which shall embody novel and improved features of construction whereby it selectively or interchangeably can be utilized for protecting either dihedral or polyhedral corners, i. e., corners formed by two faces or sides meeting at an angle or corners formed by three faces or sides meeting at a point, respectively.

Further objects are to provide such a corner protector which shall be simple and inexpensive, and which will removably overlie or cover a corner of an article or object; and thus to provide a corner protector which shall be formed of a single piece of suitable material shaped and foldable so that it may be made to conform to and can be applied over either a polyhedral corner or a dihedral corner at the will of the user.

Other objects, advantages and results of the invention will appear from the following description in conjunction with the accompanying drawing in which

Figure 1 is a perspective view of a corner protector embodying my invention, showing the manner of using it on the corner of a piece of furniture.

Figure 2 is a plan view of the corner protector before it is folded into shape for use.

Figure 3 is a perspective view showing the protector partially folded for use and

Figure 4 is an enlarged, fragmentary, transverse sectional view on the line 4—4 of Figure 2.

Specifically describing the invention, the corner protector comprises a single sheet A of suitable tough and soft, pliable or resilient material such as paper. Preferably the material is so-called corrugated cardboard and is shown as comprising two flat outer sheets 1 and 2, an intermediate flat sheet 3 and corrugated sheets 4 between the intermediate sheet and the outer and inner sheets. Also preferably the sheet A is rectangular in plan and the corrugations of the corrugated sheets 4 run longitudinally of the sheet.

The sheet has a quadrangular opening B therethrough, preferably centrally disposed in the sheet with its sides extending diagonally of the sheet. A fold-line 5 formed by scoring or weakening the sheet, extends transversely of the

sheet between each of two opposite angles 6 of the opening B and one edge of the sheet. Other fold-lines 7 extend transversely of the sheet, each in close proximity to the apex of one of the other angles 8 of the opening and preferably parallel to the fold-lines 5. A fold-line 9 extends longitudinally of the sheet from the apex of each of the last-mentioned two angles to the adjacent end edge of the sheet and preferably perpendicular to the fold-lines 7.

As shown, the fold-lines 5 are double so that the sheet may be folded upon itself to form two layers C and B that may lie accurately flatwise upon each other, although if desired, only a single fold-line may be utilized. With this construction the sheet may be first folded upon itself along the transverse fold-lines 5 as indicated at 10 to form the two layers C and D, after which both said layers can be folded in the same direction along the respective longitudinal fold-line 9. Then the two layers C and D can be folded in the same direction along the transverse fold-lines 7, so that the protector will have the shape illustrated in Figure 1, namely, with three walls that meet in a point E. It will be noted that one wall comprises two sections which abut each other edgewise along a line F that is diagonal to the angle between the other two walls. The abutting edges of said sections comprise the edges of the opening B, which in effect are miter-edges.

The protector normally can be formed in flat condition as shown in Figure 2 and then quickly folded so that it may be applied to a polyhedral corner of a piece of furniture or the like G as shown in Figure 1, or the sheet may be folded first only along the fold-lines 5 as shown in Figure 3, and then along the fold-line 7 to adapt the protector for use on a dihedral corner, said fold along the line 7 to contact with the edge formed by the meeting of the surfaces comprising the dihedral corner.

It will be observed that the structure is simple and inexpensive and provides two integrally connected thicknesses of sheet material which will adequately cushion or absorb shocks or blows applied to the corner of an article of furniture or other object to which the protector may be applied.

It will be understood that the protector will be held in position on the corner of the object in any suitable manner, for example between walls of a crate or box in which the object is packed.

While I have shown and described the preferred embodiment of my invention, it will be understood that modifications and changes in the

details of construction of the protector may be made without departing from the spirit or scope of the invention.

What I claim is:

1. A corner protector comprising a sheet of material having a quadrangular opening therein and fold-lines each extending transversely of said sheet between one of two opposite angles of said opening and one edge of the sheet, there being other transverse fold-lines each extending across the sheet in close proximity to the apex of one of the other angles of said opening and there being also a longitudinal fold-line extending from the apex of each of the last-mentioned two angles to the adjacent edge of the sheet, whereby said sheet can be folded transversely along the first-mentioned transverse fold lines to form two superposed layers, then both layers can be folded in the same direction along the other transverse fold lines, respectively, and along said longitudinal fold-lines so that the sides of said opening form

miter-edges to permit said protector to conform to and overlie the three sides of a polyhedral corner.

2. The corner protector set forth in claim 1 wherein said sheet of material is corrugated cardboard and said transverse fold-lines extend transversely of the corrugations of said cardboard.

3. The corner protector set forth in claim 1 wherein said sheet of material is rectangular in plan and the sides of said opening are disposed diagonally with respect to said sheet.

4. A corner protector comprising three walls each of which is integrally hingedly connected to the other two and one of which comprises two separable sections so that said walls selectively may be spread into a common flat plane or swung into angular relation to each other to meet in a point with said two sections abutting each other edgewise along a line diagonal to the angle between the other two walls.

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