Oct. 30, 1962 T. J. DEEREN ET AL 3,061,166

CORNER PAD

Filed Dec. 15, 1961 2 Sheets-Sheet 1

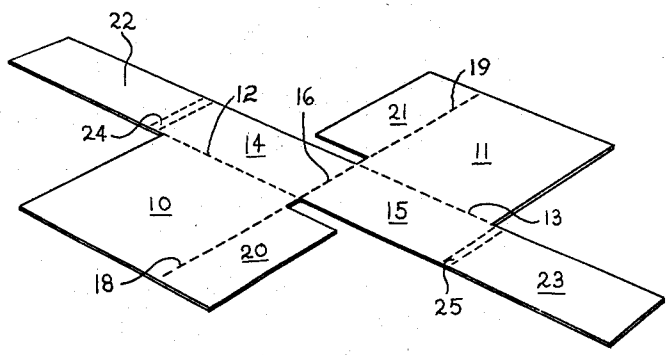


FIG. 1

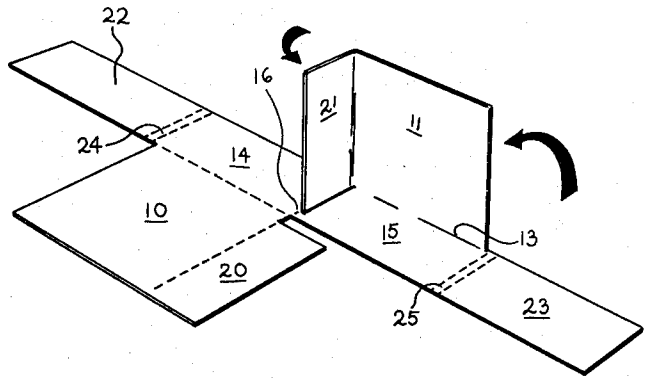


FIG. 2

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CORNER PAD

Filed Dec. 15, 1961 2 Sheets-Sheet 2

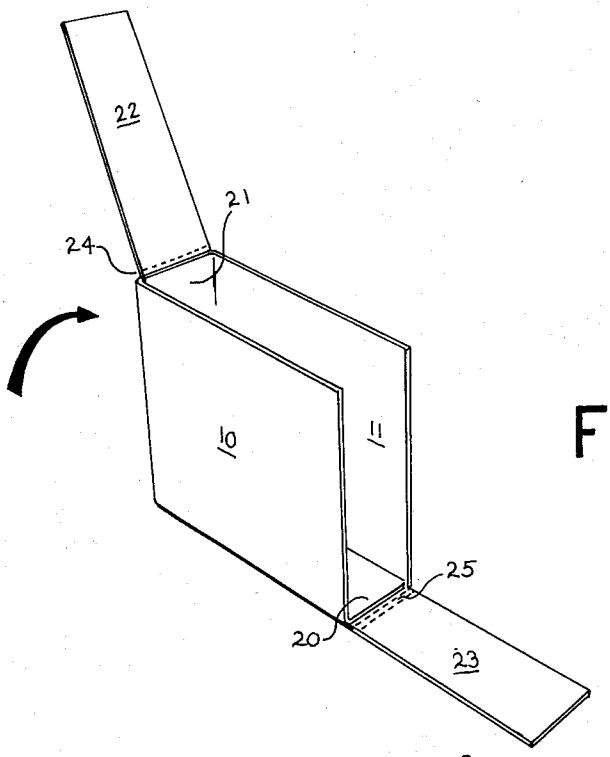
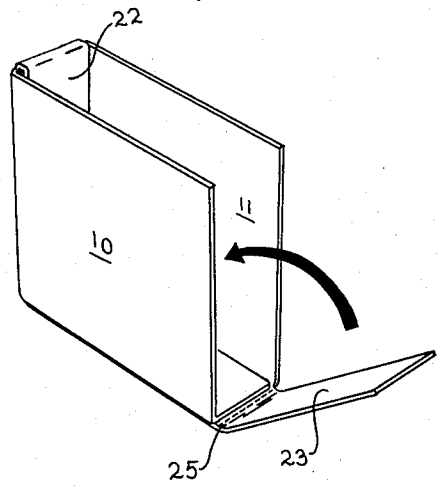


FIG.3

FIG.4



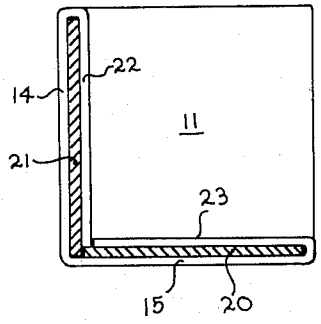


FIG.5

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3,061,166
CORNER PAD

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Filed Dec. 15, 1961, Ser. No. 159,356
3 Claims. (Cl. 229—14)

This invention relates generally to corner pads, and more particularly to a self-locking corner pad.

This invention is directed primarily to a corner pad formed of foldable sheet-like material, such as corrugated paperboard or board formed from laminate of paper and foamed plastic. The corner cap of this invention is especially designed to protect corners of panel-like or slab-like articles, such as plate glass mirrors or curtain wall panels. The corner pad is characterized by having a pair of spaced apart side walls and connecting ends walls of triple ply thickness.

It is an object of this invention to provide a simple, inexpensive corner pad.

Another object of this invention is to provide an improved self-locking corner pad having end walls of triple ply thickness.

A further object of this invention is to provide an improved, self-locking corner pad having a pair of spaced apart side walls.

The specific nature of this invention as well as other objects and advantages thereof, will become apparent to those skilled in the art from the following detailed description, taken in conjunction with the annexed sheets of drawings on which, by way of example only, the preferred embodiment of this invention is illustrated.

In the drawings:

FIG. 1 is a perspective view of the blank used to form the corner pad of this invention;

FIG. 2 is a perspective view of a partially assembled corner pad having one side wall folded into place;

FIG. 3 is a perspective view of a partially assembled corner pad showing both side walls folded into place;

FIG. 4 is a perspective view of a nearly assembled corner pad; and

FIG. 5 is a side sectional view of an assembled corner pad with one side wall removed.

Referring to FIG. 1, the blank, which is folded to form the corner pad of this invention, is preferably formed of foldable sheet-like material, such as corrugated paperboard or what is referred to as foam board. Foam board comprises a pair of kraft paper outer liners laminated to a core of foamed plastic material.

The blank B comprises a sheet of material which has been cut and scored to provide a series of foldably connected panels. A pair of side wall panels **10** and **11** are foldably connected along score lines **12** and **13**, respectively, to outer end panels **14** and **15**. The outer end panels are foldably connected together along score lines **16**. Intermediate end panels **20** and **21** are foldably connected along score lines **18** and **19** to side wall panels **10** and **11**, respectively. The score lines **18** and **19** are aligned with each other and with the score line **16**.

A pair of inner end walls **22** and **23** are foldably connected along double score lines **24** and **25**, respectively, to the outer end edges of the outer end panels **14** and **15**. The term double score line as used herein means a pair of parallel score lines, spaced apart a distance approximately equal to the thickness of the material used.

Referring to FIGS. 2–4, the corner pad is erected by folding the side wall **11** normal to its associated outer end panel **15**, and then folding the intermediate end wall

21 normal to its associated side wall **11**. The same procedure is repeated with respect to panels **10**, **14** and **20**. The outer end walls **14** and **15** are then folded normal to each other to achieve the structure shown in FIG. 3.

The inner end panels **22** and **23** are then reversely folded into the interior of the corner pad to complete the erection of the corner pad. From FIG. 5, it may be noted that one of the inner end panels **23** is made slightly shorter than the other end panel. This permits the shorter inner end panel **23** to abut against the longer inner end panel **22** and lock it in place. The shorter inner end panel **23** is frictionally maintained in place by bearing against the other inner end panel **22**. This is accomplished by making the inner end panel **23** sufficiently long so it will slightly compress the lower edge of the inner end panel **22**.

It will, of course, be understood that various details of construction may be modified through a wide range without departing from the principles of this invention, and it is not, therefore, the purpose to limit the patent granted hereon otherwise than necessitated by the scope of the appended claims.

In the claims:

1. A corner pad formed of foldable sheet-like material comprising,
   (1) a pair of outer end walls foldably connected together along a score line, said outer end walls folded normal to each other,
   (2) a pair of side walls foldably connected to opposite side edges of said outer end walls, said side wall folded normal to their respective end walls to lie in parallel spaced apart relation with each other,
   (3) a pair of intermediate end walls foldably connected to the edges of said side walls, said intermediate end walls folded normal to their respective side walls to lie in face-to-face relationship with one of said outer end walls, and,
   (4) a pair of inner end walls foldably connected to the end edges of said outer end walls, said inner end walls reversely folded to overlie said intermediate end walls to lock said side walls in place, said inner end walls extending into abutting relation with each other.

2. A corner pad as defined in claim 1, wherein one of said inner end panels abuts the intermediate end panel disposed perpendicular to it, and the remaining inner end panel is arranged to abut and compress the lower end of said one inner end panel.

3. A corner pad formed of foldable sheet-like material, comprising:
   (1) a pair of outer end walls foldably connected together and folded normal to each other;
   (2) a pair of oppositely disposed, parallel side walls, each of said side walls foldably connected to the side edge of one of said outer end panels;
   (3) a pair of intermediate end walls, each of said intermediate end walls being disposed in face-to-face contact with one of said outer end walls, each of intermediate end walls being foldably attached to one of said side walls; and,
   (4) a pair of inner end walls, said inner end walls disposed in face-to-face contact with one of said intermediate end walls, said inner end walls being foldably attached to one of said outer end panels, said inner end walls arranged to have respective end edges in abutting relation.

No references cited.