Oct. 13, 1931. A. T. SPARE 1,826,962

FOLDING BOX

Filed Feb. 26, 1930

Fig. 1

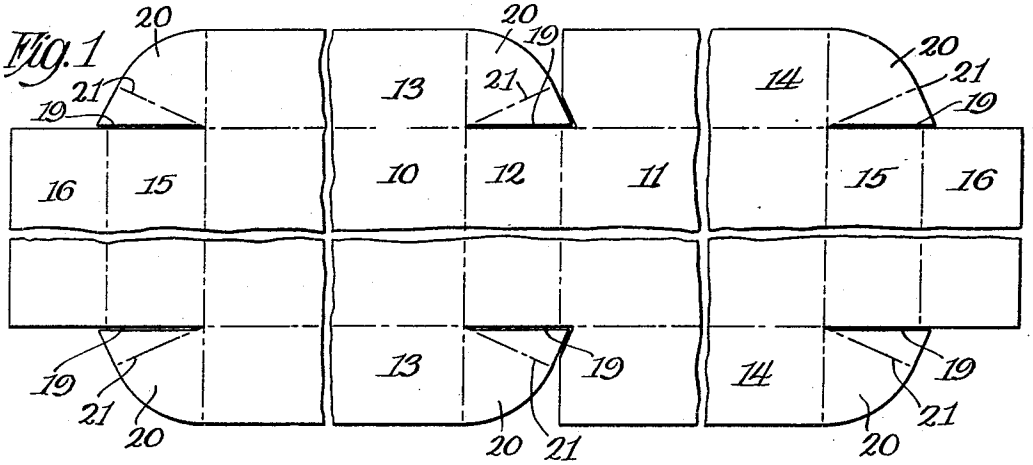


Fig. 2

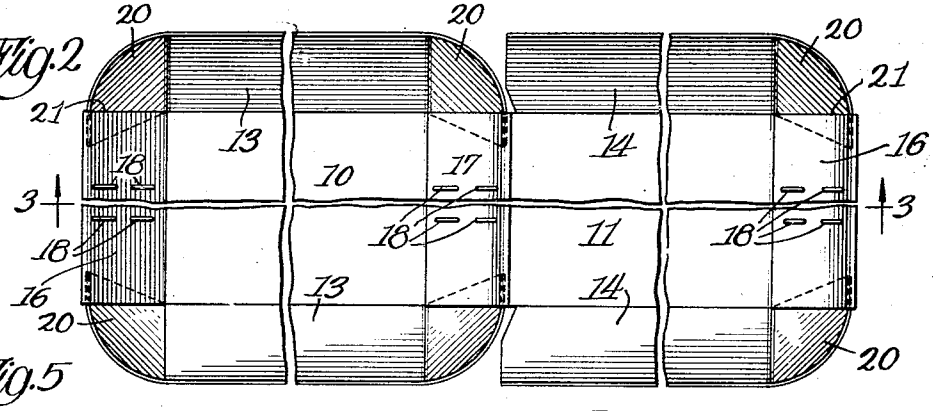


Fig. 5

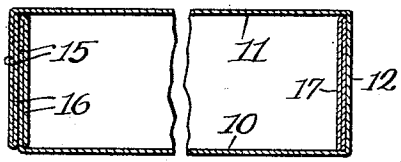


Fig. 6

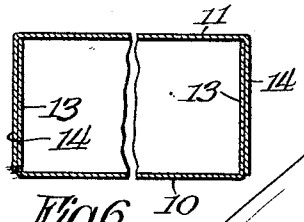


Fig. 3

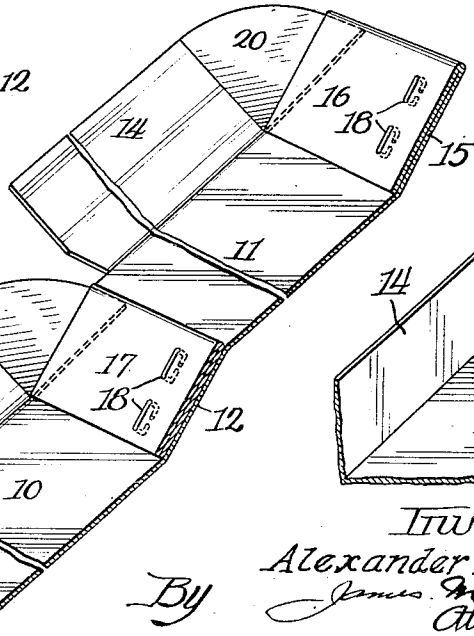
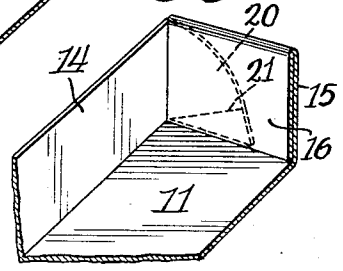


Fig. 4



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UNITED STATES PATENT OFFICE

ALEXANDER T. SPARE, OF CHICAGO, ILLINOIS

FOLDING BOX

Application filed February 26, 1930. Serial No. 431,351.

This invention relates to folding boxes usually manufactured of fibreboard, cardboard, or of any other such suitable container material.

One of the objects of the present invention is to provide an improved form of a folding box having a structure which is rigid and substantial and suitable for shipping purposes.

Another object is to provide a box, the top and bottom of which are formed of one blank which is suitably scored so that it may be shipped or handled in a flat condition, or when partially made up the boxes may be shipped nested one within the other, and then can be readily folded to the proper form when desired.

Another object is to provide a box having locking corners which are rigid and will not give way when articles are packed and shipped therein.

In the drawings is shown one of the forms of this invention of which,

Figure 1 presents a plan view of a folding blank provided with slits and scoring to facilitate folding.

Figure 2 is another plan view of one form of the invention showing the box partially made up.

Figure 3 is a perspective sectional view of the Figure 2 on the line 3—3.

Figure 4 is a perspective view of one of the corners of the box in its completely locked condition.

Figure 5 is a longitudinal section of the completely closed box.

Figure 6 is a transverse section of the box.

Referring to the drawings, the top 10 and the bottom 11 are joined by the portion 12, the said last portion forming one of the ends of the box. The other ends of the box are formed of the portions 15 and 16, and the sides of the portions 13 and 14. Secured to the portion 12 is a folded over piece 17 of the same material, and is secured thereto in any suitable manner, to form a sleeve. Portions 16 are doubled over on the portions 15, and secured together as at 18, or in any other suitable manner to form an additional pair of sleeves.

Between the sections forming the sides and ends of the box are portions 20 extending from parallel portions forming the opposite sides or ends of the top and bottom portions, having slot 19 severing them from the portions forming the opposite parallel portions which form the other sides or ends of the top and bottom. The corner locking portions or flaps 20 are scored at 21 to divide it into two portions.

In making up the box after the portions 16 are folded over and secured and the sleeve 17 is secured, the corner portions 20 are slightly buckled and the free edge thereof, which extends slightly beyond portions 15 and 12 are inserted into the sleeves formed on these sections as shown in Figure 2, up to the score lines 21. In this position all of the sides stand at an obtuse angle to the top and bottom respectively, and if desired the boxes may be nested in this position prior to use. In packing pliable articles such as clothing or rubber goods, it is desirable to have a box stand in this partially formed condition. To completely form the box, it is then only necessary to slightly urge the sides upward so that all of the sides form right angles to each other as illustrated by the closed corner shown in Figure 4.

It will be readily seen from the above description of the drawings that the corner locking portions 20 may also be contiguous with the end portions 15 and 12, and have the sleeves formed of the portions 14 and 13 with the slots between the said portions and the corner portions 20 instead of as at 19, and in this form the sleeve 17 would be obviated.

As described in the foregoing, a folding box is provided wherein articles may be easily and conveniently packed to the full extent of the box, while the box at the same time is very rigid and compact.

What I claim is:

1. A folded box comprising a blank having defined therein by means of score lines, top, bottom, a connecting portion between said top and bottom forming one end, side walls, end walls formed of two sections and adapted to be doubled upon themselves and

secured together to form sleeves, corner flaps extending from said side walls, and extending beyond the doubled over end walls, and beyond the width of the portion connecting the top and bottom, score lines dividing the corner flaps into two portions, and a separate piece of material doubled over upon itself and secured to the top and bottom connecting portion to form another sleeve, said corner flaps being adapted to be inserted into and held by said sleeves to form an interlocking closure between the side and end walls.

2. A folded box comprising a blank having defined therein by means of score lines, top, bottom, a connecting portion between said top and bottom forming one end wall, side walls, end walls formed of two sections and adapted to be doubled upon themselves and secured together to form sleeves, corner flaps extending from said side walls, and extending beyond the doubled over end walls and beyond the width of the portion connecting the top and bottom, score lines dividing the corner flaps into two portions, and a separate piece of material doubled over upon itself and secured to the top and bottom connecting portion to form another sleeve, said corner flaps being adapted to be inserted into said sleeves up to the dividing score in the corner flaps, to form an interlocking closure between the side and end walls, and to hold the side and end walls at an obtuse angle to the top and bottom.

3. A folded box comprising a blank having defined therein by means of score lines, top, bottom, a connecting portion between said top and bottom forming one end wall, side walls, end walls formed of two sections and adapted to be doubled upon themselves and secured together to form sleeves, corner flaps extending from said side walls, and said corner flaps being divided by a score line into two portions forming a segment of a circle, and a right triangle, the hypothenuse of said triangle being greater than the width of the end walls, and a separate piece of material doubled over upon itself and secured to the top and bottom connecting portion to form another sleeve, said corner flaps being adapted to be inserted into and held by said sleeves to form an interlocking closure between the side and end walls.

4. A folded box comprising a blank having defined therein by means of score lines, top, bottom, a connecting portion between said top and bottom forming one end wall, side walls, end walls formed of two sections and adapted to be doubled upon themselves and secured together to form sleeves, corner flaps extending from said side walls, and extending beyond the doubled over end walls, and beyond the width of the portion connecting the top and bottom, and a separate piece of material doubled over upon itself and secured to the top and bottom connecting portion to form another sleeve, said corner flaps being adapted to be inserted into and held by said sleeves to form an interlocking closure between the side and end walls.

In witness whereof I affix my signature.

ALEXANDER T. SPARE.