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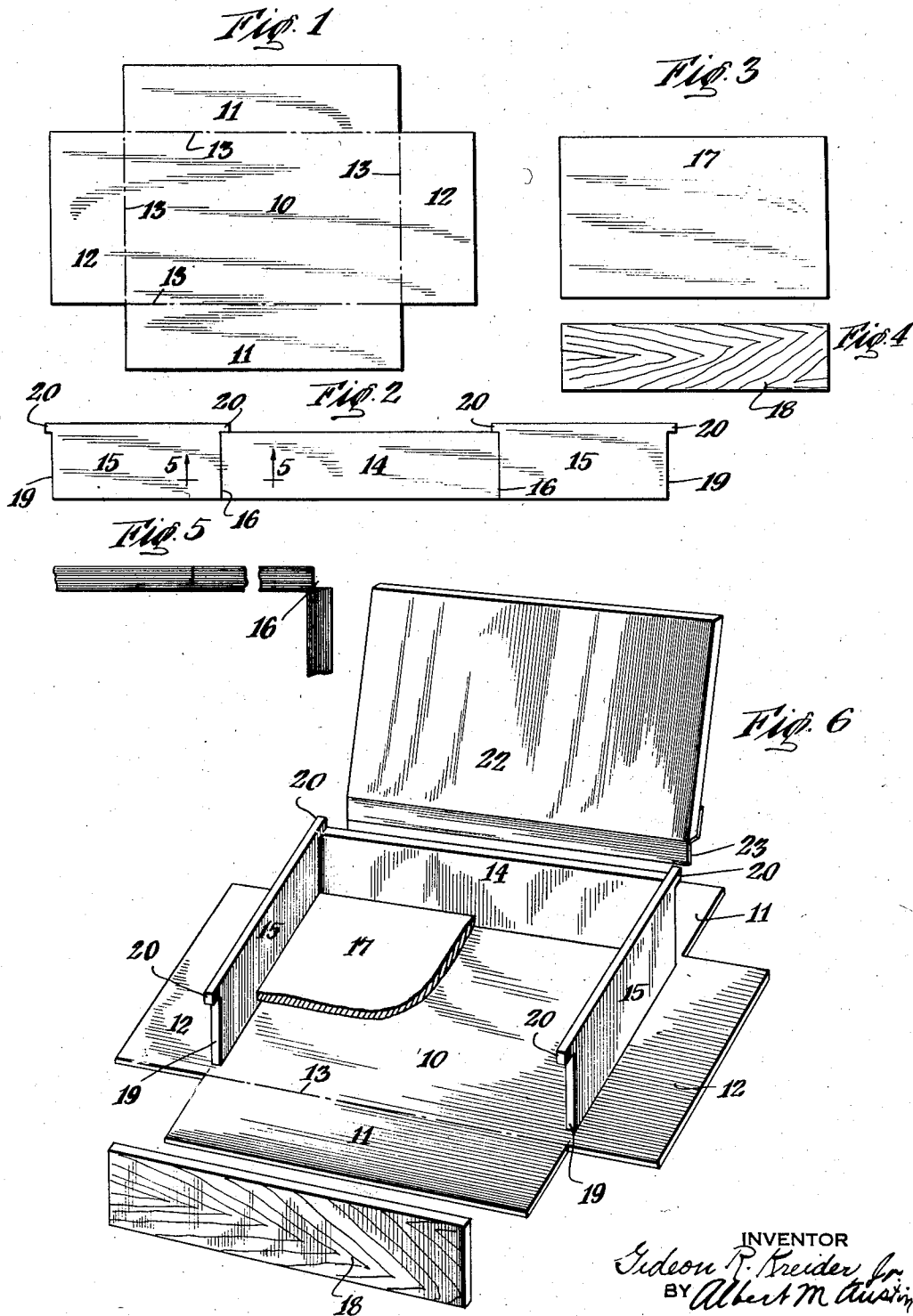
G. R. KREIDER, JR

1,977,679

BOX

Filed June 1, 1932

2 Sheets-Sheet 1



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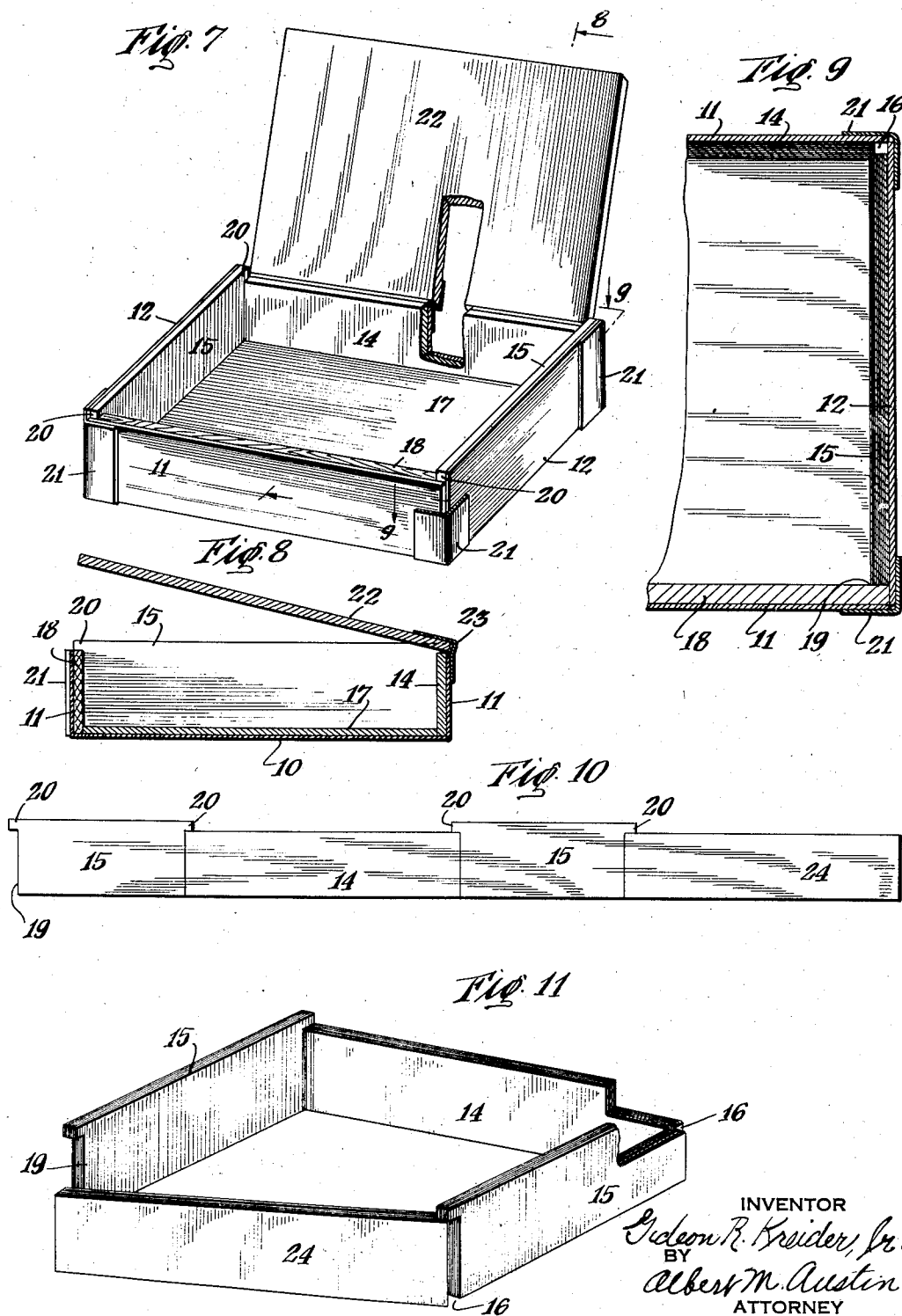
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UNITED STATES PATENT OFFICE

1,977,679

BOX

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Application June 1, 1932, Serial No. 614,683

13 Claims. (Cl. 229—23)

This invention relates to boxes and more particularly to a cigar box built up from paperboard material or a combination of paperboard and wood.

5 The invention herein disclosed is concerned with a cigar box which can be efficiently and economically made entirely of paperboard or a combination of paperboard and wood. The box comprises generally an outer blank of relatively
10 thin paperboard material which is glued to a bottom plate and a collar member, thus holding the box completely assembled without the use of nails. Strips of strong kraft paper may be glued to the corners to further reinforce the same if desired.
15 The collar member may comprise a single continuous strip of thick paperboard material which forms all four side walls of the box, or the paperboard strip may form three, two or only one side
20 of the box, with wood strips completing the remaining side walls thereof. Regardless of the material which the walls of the box are made of, however, the whole is assembled together and held in place entirely by the outer blank without the use of nails or wood glue, which have heretofore
25 been considered necessary where the walls have been constructed wholly or partly of wood. The outer covering blank is sufficiently pliable and strong to provide the finished box with smooth, rounded, and solid corners. Paperboard cigar
30 boxes heretofore made have either required filling strips along the edges, or the paperboard walls have been mitered together, to provide for solid full rounded edges and corners around the box. These operations are necessarily expensive and
35 add greatly to the cost of the finished box.

An object of my invention is to provide a box which may be made entirely of paperboard material, or a combination of paperboard and wood as desired.

40 Another object of my invention is to provide a cigar box formed from paperboard or a combination of paperboard and wood, which does not require nailing to hold the same together, and which can be efficiently, effectively and economically made.

45 Still another object of my invention is to provide a cigar box which may be made entirely of paperboard or a combination of paperboard and wood as desired, which can be completely assembled on an ordinary gluing machine without nailing, which has smooth, full rounded and solid corners and edges, and which is altogether sturdy and strong, and when wrapped, presents a finished
50 and attractive appearing box.

Other objects of this invention will become apparent as the disclosure proceeds.

Although the novel features which are believed to be characteristic of this invention will be particularly pointed out in the claims appended
55 hereto, the invention itself, as to its objects and advantages, and the manner in which it may be carried out, may be better understood by referring to the following description taken in connection with the accompanying drawings forming a
60 part thereof, in which

Fig. 1 is a face view of the cutout blank which forms the outer surface portion of the box;

Fig. 2 is a cutout strip of heavy paperboard material which forms the two end walls and a side
65 wall of the box;

Fig. 3 is a face view of a heavy paperboard plate which forms the bottom of the box;

Fig. 4 is a strip of wood which forms one of the
70 side walls of the box;

Fig. 5 is an enlarged fragmentary cross-sectional view through the paperboard strip shown in Figure 2, when arranged in side wall formation; this view being taken on line 5—5 of Figure
75 2;

Fig. 6 is a perspective view of the parts shown in Figures 1 to 4, inclusive, in the process of assembly, certain parts being broken away to illustrate certain features of the construction;

Fig. 7 is a perspective view of the completed
80 box with cover attached, certain parts being broken away to illustrate the construction;

Fig. 8 is a vertical transverse cross-sectional view of the box, this view being taken on line
85 8—8 of Figure 7;

Fig. 9 is a fragmentary horizontal cross-sectional view of the box, this view being taken on
90 line 9—9 of Figure 7;

Fig. 10 is a face view of a cutout strip of paperboard material which may form the side walls
95 of a box of somewhat modified construction; and

Fig. 11 is a perspective view of the strip shown in Figure 10 assembled into side wall formation, certain parts being broken away to illustrate the
100 corner construction.

The box herein disclosed comprises generally an outer blank of paper material, shown in Figure 1, a side wall forming strip of relatively thick
105 paperboard material, shown in Figure 2, a bottom-forming plate, shown in Figure 3, and one or more wood strips, such as shown in Figure 4, which complete the side walls of the box. The blank shown in Figure 1 comprises more particularly a bottom portion 10, front and rear side
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wall portions 11 and end wall portions 12, separated and defined by simple bending lines 13. The collar member, shown in Figure 2, is formed from heavy paperboard material and comprises generally a rear wall 14 and end walls 15, which are defined by transverse cuts 16, shown more particularly in Figure 5. The plate 17, shown in Figure 3, is of such shape as to fit closely within the paperboard collar member when in assembled position. A wood strip 18, which corresponds in thickness and size to the side wall 14 of the collar member, forms the other side wall of the rectangular box. It will be noted that the end walls 15 are of slightly greater height than the rear wall 14 and the front wall 18. The end walls 15 are further provided with overhanging lips 20 which extend over the rear and front walls 14 and 18 respectively when the box is assembled.

To assemble the box, the inside surface of the blank, shown in Figure 1, is first coated with glue. The bottom-forming plate 17 is placed centrally on the bottom portion 10 of the blank. The collar member is then positioned on the blank and the lower edge thereof pressed inwardly so as to closely abut the corresponding edges of the plate 17, which is of slightly less size than the bottom portion 10 of the blank. When thus assembled, the outer edge of the collar member coincides with the bending lines 13 provided in the blank. The lower edge of the wood strip 18 is then positioned on the blank so that the lower edge abuts the front edge of the plate 17 and the ends of the wood strip abut the ends 19 of the side walls 15 and seat under the overhanging lips 20. The front and rear wall portions 11 and the end wall portions 12 of the blank are then folded upwardly and glued or otherwise secured to the adjacent wood or paperboard side walls, as the case may be. To complete the box assembly, strips of kraft paper 21 are glued or otherwise secured in overlapping relation to the outside surface of the side wall portions of the blank, as shown more particularly in Figures 7 and 9.

A cover member 22 may be provided for the box, which is secured to the rear wall of the box by means of a glue strip 23. The cover 22 is of such size and thickness as to rest when in closed position on the top edges of the front and rear walls of the box, and to lie flush with the top edge of the end walls thereof.

I have shown in Figure 10, for purposes of illustration, a collar member comprising a continuous strip of paperboard which forms all the side walls of the box, including the rear wall 14, the end walls 15 and the front wall 24. If found desirable, one end wall and the rear wall may be formed of paperboard and the other end wall and front wall may be formed of wood strips. Or again, only the rear wall may be made of wood, or only the front and rear walls may be made of wood or only the end walls may be made of wood, the remaining walls being made of paperboard material. Any combination of paperboard and wood walls desired may be obtained.

The outer blank is preferably formed of tough paperboard material which is relatively thin and will easily bend along the bending line 13 without the necessity of cutting the paper to prevent it from breaking when the same is bent. When assembled, the edges and corners of the box will be strong, full rounded and solid, due to the inherent stiffness of the bent edges of the outer blank, which has not been weakened by scoring or cutting. The side walls of the heavy paper-

board collar member are defined by the cuts 16, which cuts are covered over by the outer blank shown in Figure 9. When cuts 16 have been provided in paperboard cigar boxes heretofore made, it has been necessary to fill the corners and edges of the box with wood or paperboard strips in order to present a solid full rounded corner. Another expedient which has heretofore been used to obtain full round and solid edges has been to miter the ends of the paperboard which form the side walls of the box. Both are very expensive operations and add greatly to the cost of the box. Solid full rounded corners and edges are provided for in the box herein disclosed in an inexpensive manner, by means of the outer covering blank. Furthermore, one or more selected side walls of the box may be made of wood, and the whole is held together by the outer blank without the use of nails, which has heretofore been considered necessary when a combination of paperboard and wood has been used. Furthermore, the wood side wall is of sufficient size to abut the ends 19 of the paperboard end walls 15 and to also abut the front edge of the bottom plate 17. Under these conditions it is impossible to crush the wood side wall inwardly, as is the case of many combination paperboard and wood boxes heretofore made. The end walls 15 extend above the front and rear walls and the lip portions 20 thereof snugly fit over the front and rear walls, presenting a smooth and finished box.

The box above described is especially adapted for economical production and can be made entirely on automatic machines. The cost of the manufacture of the box herein disclosed is considerably less than any cigar box heretofore devised. Furthermore, when the box structure has been covered with the proper wrapping, an unusually attractive box is presented, which has smooth full rounded edges which are unusually solid. The box when finished resembles the well known cedar box in all respects, and is strong and lasting. If desired, one or more side walls of the box may be made of cedar wood and need not be wrapped, so that the character of the wood thereof is evident on inspection.

While certain novel features of the invention have been disclosed and are pointed out in the annexed claims, it will be understood that various omissions, substitutions and changes may be made by those skilled in the art without departing from the spirit of the invention.

What is claimed is:

1. A box of the character described comprising in combination, a relatively thin outer blank of paperboard material having a bottom portion and bendable side wall portions, a relatively thick inner collar member comprising connected portions forming the side walls of the box, corner stays secured to and overlapping the side wall portions of the outer blank, and a bottom plate surrounded by said inner collar member and resting on the bottom portion of the blank.

2. A box of the character described comprising in combination, a relatively thin outer blank of paperboard material having a bottom portion and bendable side wall portions, a relatively thick inner collar member comprising connected portions forming the side walls of the box, and corner stays secured to and overlapping the side wall portions of the outer blank.

3. A box of the character described comprising in combination, a relatively thin outer blank of paperboard material having a bottom portion and bendable side wall portions, and a relatively thick

inner collar member comprising connected portions forming the side walls of the box, one of the side walls of said inner collar member having a lip portion which extends over the top horizontal edge on an adjacent side wall, and means connecting the side wall portions of said blank retaining the same in box assembled form.

4. A box of the character described comprising in combination, a relatively thin outer blank of paperboard material having a bottom portion and bendable side wall portions, and a relatively thick inner collar member comprising connected portions forming the side walls of the box, one of the side walls of said inner collar member being of greater height than the adjacent side wall, the higher side wall also having a lip portion which extends over the same, and means connecting the side wall portions of said blank retaining the same in box assembled form.

5. A cigar box comprising in combination, a collar member of relatively stiff paperboard material having transverse cuts therein which define connected portions forming the end walls and one of the side walls of the box, and a wood strip forming another side wall of the box abutted against the vertical edges of said end walls, an unscored and uncut outer blank of paperboard material having a bottom portion and bendable side wall portions secured to said collar member and wood strip, and corner stays connecting the side wall portions of the outer blank retaining the same in assembled relationship, one of the side walls of said inner collar member being of greater height than the adjacent side wall, the higher side wall also having a lip portion which extends over the adjacent side wall.

6. A cigar box comprising in combination, a collar member of relatively stiff paperboard material having transverse cuts therein which define connected portions forming the end walls and one of the side walls of the box, a wood strip forming another side wall of the box abutted against the vertical edges of said end walls, an unscored and uncut outer blank of paperboard material having a bottom portion and bendable side wall portions secured to said collar member and wood strip, and corner stays connecting the side wall portions of the outer blank retaining the same in assembled relationship, and a bottom plate resting on the bottom portion of said blank and surrounded by said collar member and wood strip.

7. A cigar box comprising in combination, a collar member of relatively stiff paperboard material having transverse cuts therein which define the end walls and one of the side walls of the box, a wood strip forming another side wall of the box abutted against the vertical edges of said end walls, an unscored and uncut outer blank of paperboard material having a bottom portion and bendable side wall portions secured to said collar member and wood strip, and corner stays connecting the side wall portions of the outer blank retaining the same in assembled relationship, and a bottom plate resting on the bottom portion of said blank and surrounded by said collar member and wood strip and preventing inward collapse thereof.

8. A cigar box comprising in combination, a collar member of relatively stiff paperboard material having transverse cuts therein which define the end walls and one of the side walls of the box, and a wood strip forming another side wall of the box abutted against the vertical

edges of said end walls, the end walls of said collar member being of greater height than the adjacent side wall, said higher end walls each having a lip portion which extends over the adjacent side wall, an unscored and uncut outer blank of paperboard material having a bottom portion and bendable side wall portions secured to and holding said collar member and wood strip in assembled relationship, and corner stays overlapping and secured to the side wall portions of the outer blank.

9. A cigar box comprising in combination, a collar member of relatively stiff paperboard material having transverse cuts therein which define connected portions forming the end walls and one of the side walls of the box, and a wood strip forming another side wall of the box abutted against the vertical edges of said end walls, an unscored and uncut outer blank of paperboard material having a bottom portion and bendable side wall portions secured to and holding said collar member and wood strip in assembled relationship, a bottom plate resting on the bottom portion of said blank and surrounded by said collar member and wood strip, and corner stays overlapping and secured to the side wall portions of the outer blank.

10. A cigar box comprising in combination, a collar member of relatively stiff paperboard material having transverse cuts therein which define connected portions forming the end walls and one of the side walls of the box, and a wood strip forming another side wall of the box abutted against the vertical edges of said end walls, an unscored and uncut outer blank of paperboard material having a bottom portion and bendable side wall portions secured to and holding said collar member and wood strip in assembled relationship, a bottom plate resting on the bottom portion of said blank and surrounded by said collar member and wood strip, corner stays overlapping and secured to the side wall portions of the outer blank, and a cover member hinged to the paperboard side wall of the box.

11. A cigar box comprising in combination, a collar member of relatively stiff paperboard material having transverse cuts therein which define connected portions forming the end walls and the rear wall of the box, a wood strip forming the front wall of the box abutted against the vertical edges of said end walls, an unscored and uncut outer blank of paperboard material having a bottom portion and bendable side wall portions secured to said collar member and wood strip, and corner stays connecting the side wall portions of the outer blank retaining the same in assembled relationship.

12. A cigar box comprising in combination, a collar member of relatively stiff paperboard material having transverse cuts therein which define the end walls and the rear wall of the box, a wood strip forming the front wall of the box abutted against the vertical edges of said end walls, an unscored and uncut outer blank of paperboard material having a bottom portion and bendable side wall portions secured to said collar member and wood strip, and corner stays connecting the side wall portions of the outer blank retaining the same in assembled relationship, said end walls having lip portions at the front end thereof which extend over the top horizontal edge of the wood front wall.

13. A cigar box comprising in combination, a collar member of relatively stiff paperboard material having transverse cuts therein which de-

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fine the end walls and the rear wall of the box, a wood strip forming the front wall of the box abutted against the vertical edges of said end walls, an unscored and uncut outer blank of paperboard material having a bottom portion and bendable side wall portions secured to said collar member and wood strip, and corner stays

connecting the side wall portions of the outer blank retaining the same in assembled relationship, said end walls having lip portions at each end thereof which extend over both the rear wall and the front wall of the box.

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