

H. W. HILDEBRAND, JR.
BOX CONSTRUCTION.
APPLICATION FILED MAY 26, 1909.

945,094.

Patented Jan. 4, 1910.
2 SHEETS—SHEET 1.

Fig. 1.

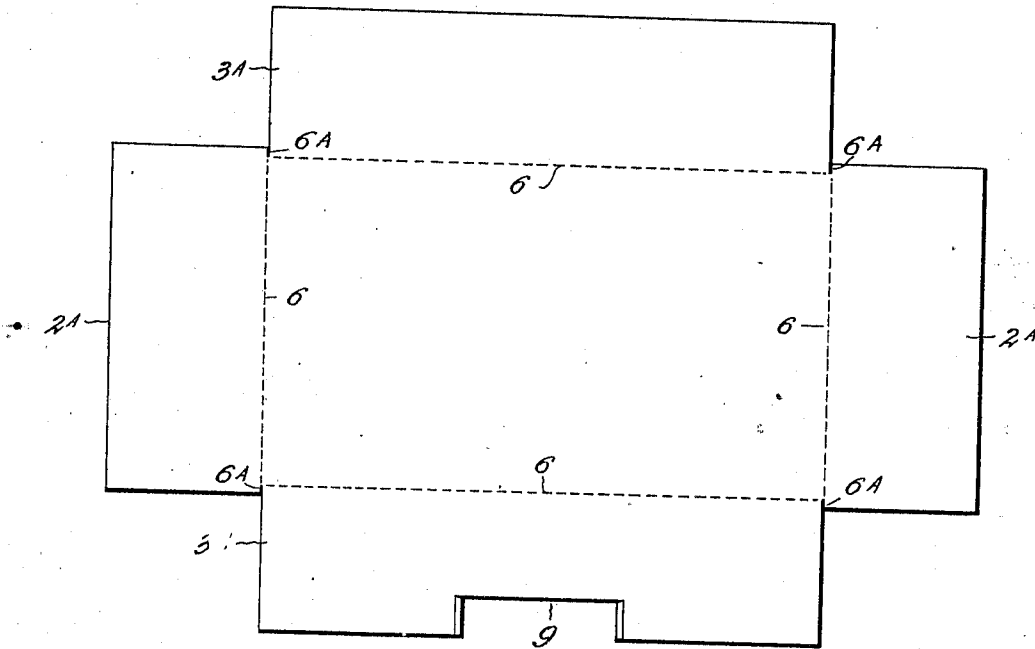


Fig. 3.

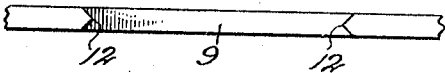


Fig. 4.

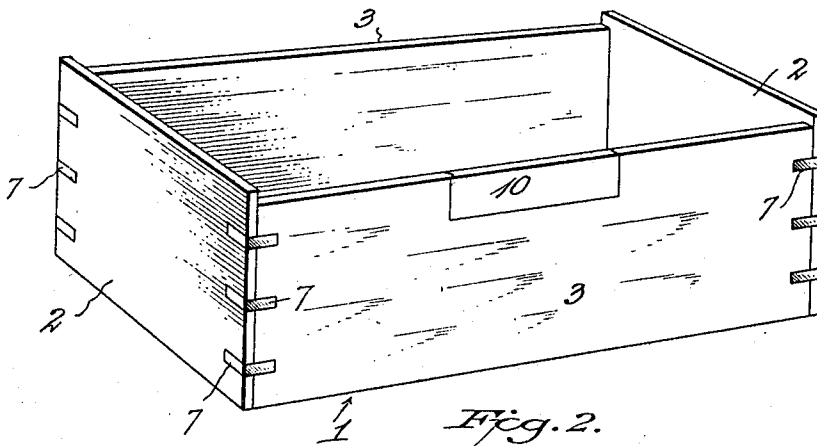
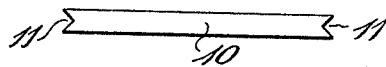


Fig. 2.

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BOX CONSTRUCTION.
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945,094.

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2 SHEETS—SHEET 2.

Fig. 5.

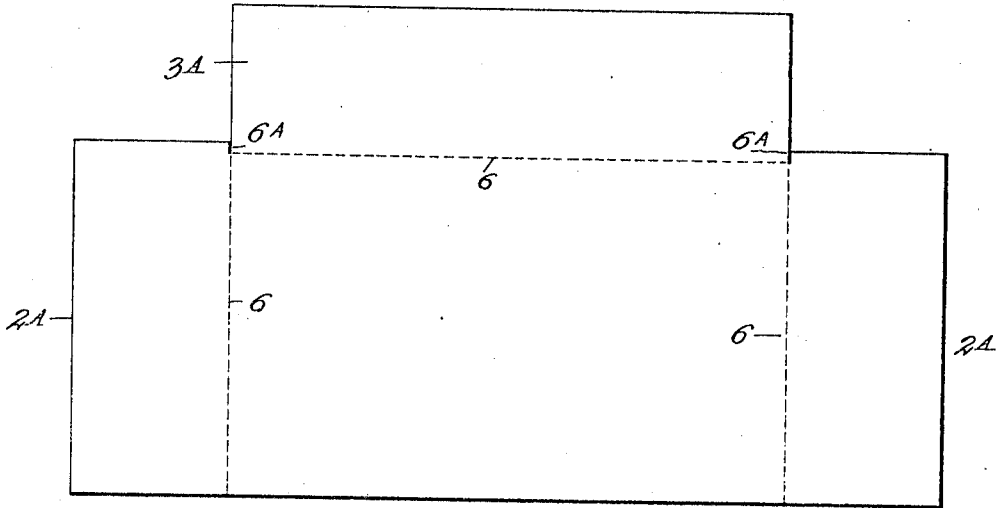


Fig. 6.

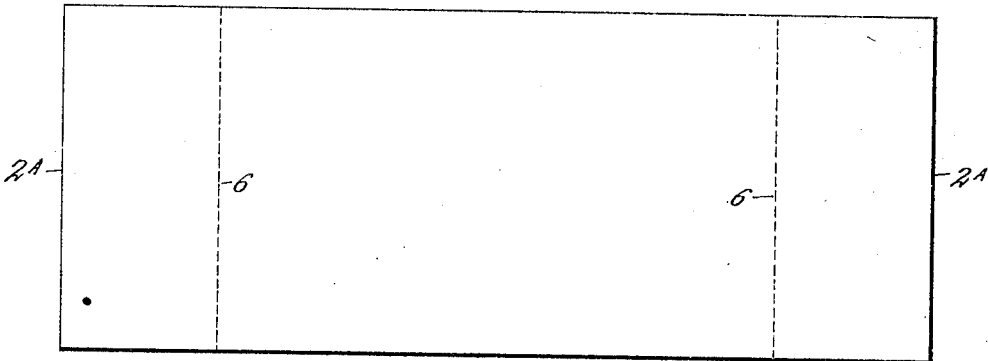


Fig. 7.

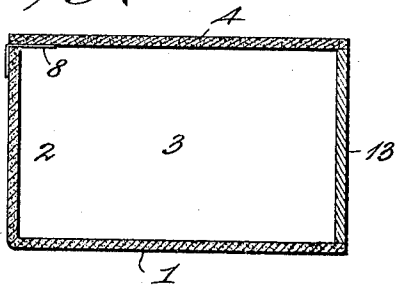
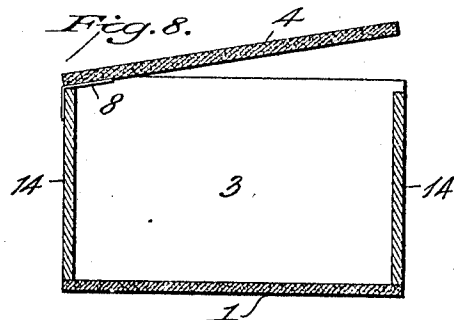


Fig. 8.



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UNITED STATES PATENT OFFICE.

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BOX CONSTRUCTION.

945,094.

Specification of Letters Patent.

Patented Jan. 4, 1910.

Application filed May 25, 1909. Serial No. 498,228.

To all whom it may concern:

Be it known that I, HENRY W. HILDEBRAND, Jr., a citizen of the United States of America, residing in the city and county of Denver and State of Colorado, have invented a new and useful Box Construction, of which the following is a specification.

My invention relates to improvements in the art of making boxes, and relates in particular to the construction of cigar boxes as a new article of manufacture, and the objects of my invention are: First, to provide as a new article of manufacture a cigar box that can be manufactured much cheaper than the all-cedar cigar boxes now used, and that will be as well adapted to pack and ship and keep cigars in as all-cedar or imitation cedar wood boxes. Second, to provide a box made wholly of compressed paper-board, and that is constructed with sides and ends and bottom portions formed of one piece of such board or other suitable like material. I attain these objects by the mechanism illustrated in the accompany drawings, in which:

Figure 1, is a view of the blank, from which an all-paper box is constructed. Fig. 2, is a perspective view of a box formed from the blank shown in Fig. 1, showing the corner edges united by suitable clips or fasteners, and a strip of wood inserted in a recess in the front side thereof for the reception of the lid-securing nails. Fig. 3, is an edge view of a fragment of the front side of the box, showing the recess for the reception of the said wooden strip. Fig. 4, is an edge view of the said strip. Fig. 5, is a view of a blank from which an incomplete box is constructed, having a bottom, the ends, and one side, the remaining side being of other material, and being adapted to be secured in position to complete the box. Fig. 6, shows a blank from which the bottom and ends of the box are formed, the sides being separate and adapted to be secured thereto. Fig. 7, is a sectional view through a box having its bottom, ends and rear side formed of compressed paper-board, while the front side is of wood, a lid of compressed paper-board being hinged to said box. And Fig. 8, is a similar sectional view showing a box having both sides formed of wood.

Similar letters of reference refer to similar parts throughout the several views.

Referring to the drawings, the numeral 1, designates the bottom of a box adapted to hold cigars or other merchandise; 2 design-

ates the opposite ends thereof; 3 designates the opposite sides; and 4 designates the cover. These several parts are made of compressed or any other kind of paper-board. The bottom and sides and ends are preferably made of one piece of material, which is in the form of a blank of the outline shown in Fig. 1, in which the ends and sides are cut to fold up at right angles to the bottom along the dotted lines 6, in such a manner that when they are folded the corners will overlap each other and fit snugly together. These corners are then secured together by corner clips 7, which may be of any suitable type. The flaps 2^A of the blank, which form the ends when bent up, extend slightly beyond the lines upon which the sides are folded, and slits 6^A are cut from the folding lines 6 to the outer edges of the flaps. The side flaps 3^A are first folded, and when the ends are folded up against them, they overlap the adjacent edges of the sides, as shown in Fig. 2.

The cover is secured to the rear side of the box by a suitable pliable fabric hinge 8, which is secured to the inside portion of the cover, and also of the side. This cover is preferably formed to extend between the ends and over the opposite sides of the box, even with their outside surfaces.

In the matter of cigar boxes, it is customary to secure the free side edge of the cover to the top edge of the adjacent side, and while the compressed paper-board will hold a nail driven in it parallel with the laminated layers of the material of which it is composed, it does not hold as firmly as when driven transversely through it. Therefore, I preferably provide the center portion of the side of the box with a denser or a better nail holding material than the paper board affords. This nail holding material may be secured to the side of the box in any suitable manner, to receive one or more nails from the cover, but I preferably accomplish this by cutting a recess 9 in the center of the side from its top edge down a distance greater than the length of the nail to be used, and a strip of suitable material 10, such as wood, and preferably cedar wood, is inserted in the recess and is secured there by any suitable means, preferably by forming V-shaped grooves 11, in the edges of the said strip, which are adapted to inclose the side and bottom edges of the recess 9, which edges are correspondingly tapered, as shown at 12, and

the strip is glued or otherwise secured to the said tapered edges of the recess. This inserted piece of cedar or imitation cedar wood is dressed off level with the sides and top edge of the box, and receives the nails with which the cover is secured to the box.

In Fig. 5, I illustrate a modification in the construction of the blank shown in Fig. 1, in which one of the side flaps 3^A is omitted, so that when the parts are folded, they form a structure having a bottom and ends and only one side. The bottom and the two opposite ends are formed of one piece of material, the ends being folded and secured by clips to the side, as in Fig. 2. A cedar or other suitable wooden side strip 13 is then placed between the ends of the box and secured to the ends and bottom by nails. The cigar box is then composed of a bottom and end portions, a cover and one side of compressed paper-board, and one side of cedar or other suitable wood. The cedar side makes a box in combination with the paper-board at the corners, that has the natural cedar wood odor, but on account of its bottom and ends and cover portion being constructed in a special way and of a special material, it will not cost nearly as much to manufacture as all-cedar or imitation cedar cigar boxes do, and when the front side is made of wood, an ample nailing surface is afforded for securing the lid.

If desired, both side strips may be made of wood, as shown at 14, Fig. 8, which would insure the natural cedar odor or bouquet which some manufacturers consider desirable, while providing as a new article of manufacture a cigar box of paper that could be manufactured at less expense than cedar or imitation cedar wood boxes can.

Having described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. A cigar box constructed of paper material, and having its bottom and ends and side cut from a sheet of paper-board such as jute cloth paper-board or any other compressed paper-board having tensile strength of wood, lined or painted on each side to imitate the natural wood, in such a manner that they will fold to register against each other and to stand at right angles to the bottom portion of said box, means including corner clips for securing said sides and ends together, a cover of paper-board secured to one of said sides by a flexible hinge, and means including a piece of nail holding ma-

terial secured to the opposite side for securing said cover to said side.

2. In a cigar box, the combination of a box made of paper, said box comprising integral bottom and end and side pieces cut from and formed of a sheet of compressed paper-board, said ends and sides being so cut as to be folded and pressed to overlap together to stand at right angles to said bottom portion, means including corner fasteners for securing said ends and sides together, a cover for said ends and sides and bottom portion, comprising a piece of compressed paper-board secured to one of said sides by a fabric form of hinge secured partially to said cover and partially to one of said sides, a recess in the opposite side and a piece of cedar or other wood secured into said recess and arranged even with said side.

3. A box of the character described, comprising a compressed paper blank of suitable dimensions, which is adapted to be folded to form a box having ends which overlap the edges of the sides and extend above the same; the front of said box having a recess extending in from its upper edge; a wood strip adapted to be secured in said recess; and a compressed paper cover hinged to the rear side of said box, and adapted to be secured by nails to said wood strip.

4. A box constructed of a compressed paper, which is folded to present integral sides and ends; clips for securing said sides and ends; a wood strip having grooves in its bottom and ends, which is adapted to fit into a recess in the front side of said box, the edges of said recess being beveled to correspond to the grooves in said strip; and a lid hinged to the rear side of said box, which is adapted to be secured by nails to said wood strip.

5. A box comprising a body having a side wall of compressed sheet material, said wall being formed at its top with a recess having oppositely beveled edges, a piece of wood secured in the recess of said wall and having substantially V-shaped grooves in its edges for the reception of the beveled edges of said recess, and a cover for the body adapted to be secured by a nail driven through it and into said piece of wood.

In testimony whereof I affix my signature in presence of two witnesses.

HENRY W. HILDEBRAND, Jr.

Witnesses:

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