E. E. PINKERTON.

BOX.

APPLICATION FILED JAN. 11, 1916.

1,268,146.

Patented June 4, 1918.

2 SHEETS—SHEET 1.

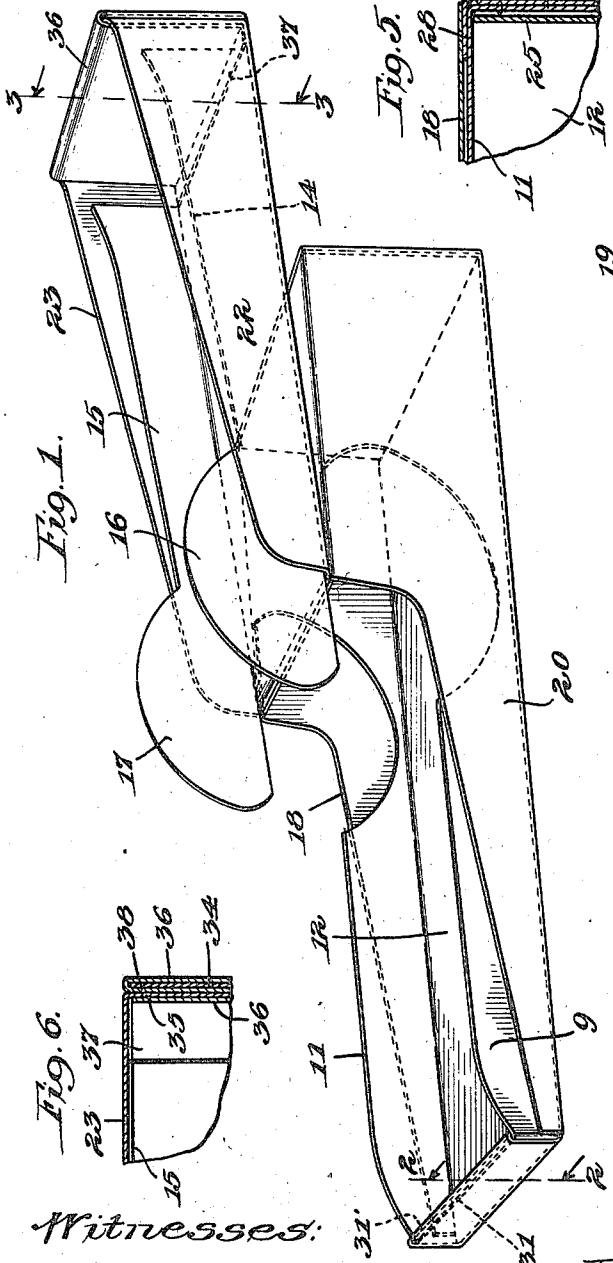


Fig. 1.

Fig. 5.

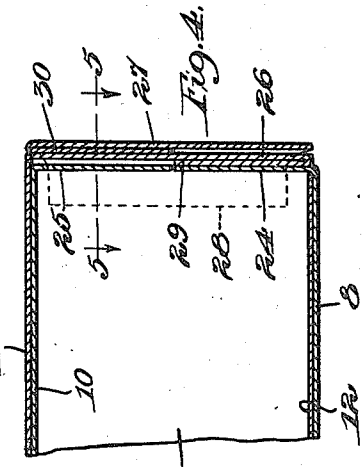


Fig. 4.

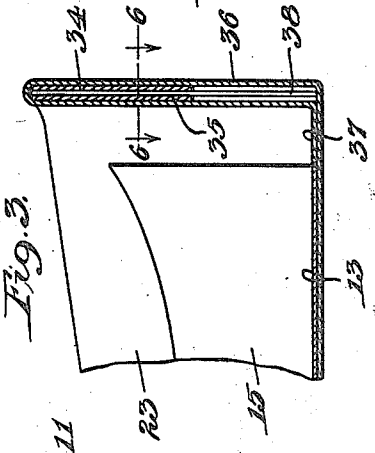


Fig. 3.

Fig. 6.

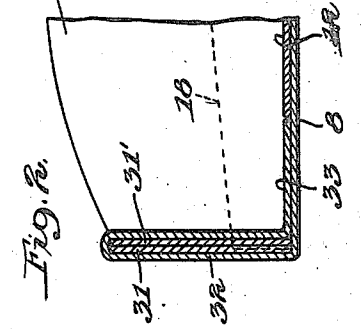


Fig. 2.

Witnesses:

H. S. Bull.

B. G. Richards

Inventor,

Edward E. Pinkerton,

By Joshua R. H. Sons

his Attorney.

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2 SHEETS—SHEET 2.

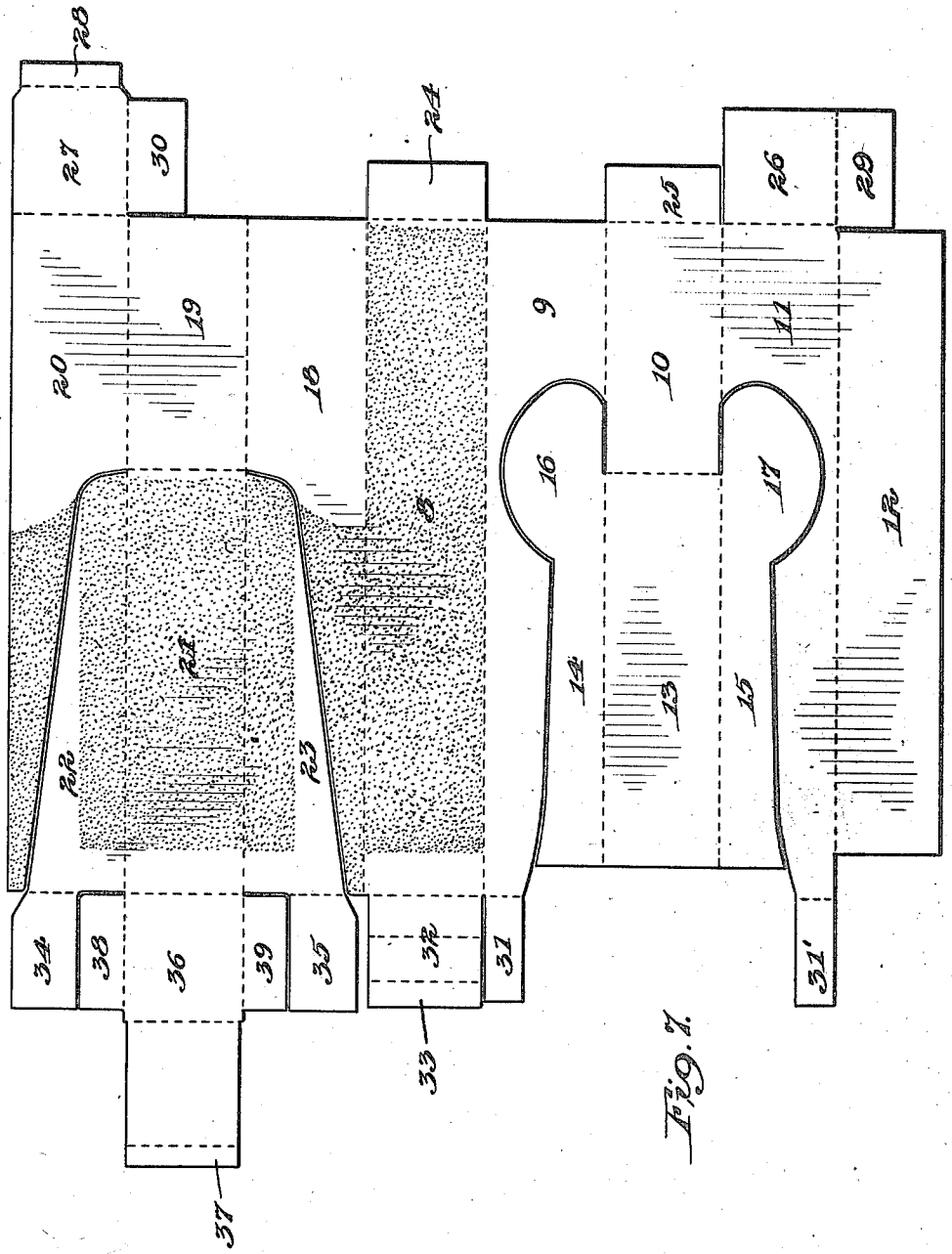


Fig. 1.

Witnesses:
H. S. Buell.
B. G. Richards

Inventor,
Edward E. Pinkerton,
By Joshua R. H. Potts
his Attorney.

UNITED STATES PATENT OFFICE.

EDWARD E. PINKERTON, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO CHARLES HARKER HUDSON, OF CHICAGO, ILLINOIS.

BOX.

1,268,146. Specification of Letters Patent. Patented June 4, 1918.

Application filed January 11, 1916. Serial No. 71,442.

To all whom it may concern:

Be it known that I, EDWARD E. PINKERTON, a citizen of the United States, and a resident of the city of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Boxes, of which the following is a specification.

My invention relates to improvements in boxes especially adapted for containing perforated music rolls for pneumatic player pianos, and has for its object the provision of an improved box of this character which is strong and durable and convenient in use, permits of ready removal or insertion of the rolls and which will adequately retain the rolls under normal conditions and prevent accidental falling thereof from the box, the present invention being an improvement on the box disclosed in my prior application filed August 11, 1915, Serial No. 44,921.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings forming a part of this specification, and in which,

Figure 1 is a perspective view of a box embodying my invention,

Fig. 2, an enlarged section taken on substantially the plane indicated by line 2—2 on Fig. 1,

Fig. 3, an enlarged section taken on substantially the plane indicated by line 3—3 on Fig. 1,

Fig. 4, an enlarged vertical section taken through the rear end of the box,

Fig. 5, a section taken on line 5—5 of Fig. 4,

Fig. 6, a section taken on line 6—6 of Fig. 3, and

Fig. 7, a plan view of the blank from which the box is formed.

The preferred form of construction, as illustrated in the drawings, comprises a cardboard blank having a main bottom portion 8 situated substantially centrally therein. A side portion 9 is formed at one edge of bottom portion 8; a top portion 10 is formed at the outer edge of portion 9; a side portion 11 is formed at the outer edge portion 10; and a double bottom portion 12 is formed at the outer edge of side portion 11, said portions being adapted and arranged to be forced over the bottom portion 8 to form three consecutive walls of the box, the portion 12 being secured to the upper face of bottom portion 8 to form a double bottom portion, as indicated, the secured areas being indicated by the stippled surface on bottom portion 8. An inner drop cover portion is formed from the portions 13, 14 and 15 of the portions 10, 9 and 11 respectively, as indicated, the side portions 14 and 15 being provided with depending lips or flanges 16 and 17 which operate within the body of the box as the cover swings to act as guides and reinforcing members, as best indicated in Fig. 1.

At the opposite edge of bottom member 8 second side and top members 18, 19 and 20 are formed and arranged and adapted to be folded over the previously formed walls of the box to constitute double side and top walls therefor, said parts being secured to the corresponding parts by glue throughout the stippled areas, thus completing the body of the box. Portions 21, 22 and 23 of the portions 19, 20 and 18 respectively, are secured to portions 13, 14 and 15 throughout the stippled areas to form the body of a double drop cover for the box and the lips 16 and 17 extending into the spaces in the portions 9 and 11 when the box cover is closed to act as guides and reinforcing members for the cover.

At their rear ends, bottom and top members 8 and 10 are provided respectively with closure flaps 24 and 25 extending substantially half the height of the box and foldable thereacross to constitute an inner closure wall therefor. Additional closure flaps 26 and 27 of sizes sufficient to cover the entire end of the box are formed on the rear ends of portions 11 and 20, the flap 27 being arranged to fold over the flap 26 and provided with a tongue 28 insertible between the opposite side walls of the box body. Additional flaps 29 and 30 are formed on the opposite edges of flaps 26 and 27 and are folded within the box closure, as indicated, to conceal the raw edges of the cardboard which would otherwise appear and to further stiffen the closures.

Flaps 31 and 32 are formed at the front ends of the portions 9 and 11 respectively and are foldable across the bottom front end of the box, a tongue 32 being provided on the forward edge of the bottom member

8 and foldable over flaps 31 and 32 and insertible within the box body to frictionally hold the flanges 31 and 32 in place. The tongue 32 is provided with a holding flap 33 bent to lie flat against the bottom of the box, the double bottom portion 12 being made short enough to provide a space for the reception of flap 33, as indicated in Fig. 2. This arrangement forms a stop flange or barrier across the bottom portion of the open forward end of the box adapted to prevent accidental falling of a music roll therefrom but not high enough to materially interfere with the ready and intentional removal of a roll.

Flaps 34 and 35 are formed at the forward edges of the portions 22 and 23 and are arranged to fold across the end of the bottom portion of the drop cover member. A tongue 36 is formed at the forward end of the second cover member 21 and is foldable over the flaps 34 and 35 and insertible within the body of the drop cover to frictionally engage the sides thereof and hold the flaps 34 and 35 in place. A securing flap 37 is formed at the free edge of tongue 36 and is adapted to be folded flat against the inner sides of cover member 21, the cover member 13 being made short enough to provide a space for this purpose, as indicated in Fig. 3. Additional flaps 38 and 39 are formed on the edges of tongue 36, as shown, and are folded inwardly into the closure to conceal the raw edges of said tongue which would otherwise appear and to further stiffen the closure.

By this construction a strong and durable box is provided especially adapted for containing perforated music rolls for pneumatic player pianos which permits of the ready inspection or removal or replacement of music rolls therein, to which the cover is permanently attached and thus cannot be misplaced and which will not permit of the accidental falling of a music roll therefrom under ordinary conditions of use.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

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

1. A folding box comprising a bottom member; a member at one edge of said bottom member and foldable over said bottom member to form three consecutive walls of the box and a double bottom member; a second member at the opposite edge of said bottom member and foldable over the walls formed by said first mentioned member; means at one end of said members for closing the corresponding end of the box; and a drop cover member for the other end of said box formed from the corresponding portions of said folded members, substantially as described.

2. A box comprising a bottom member; a side member at one edge of said bottom member; a top member at the edge of said side member; a side member at the edge of said top member; a double bottom member at the edge of said last mentioned side member; a second side member at the other edge of said bottom member; a second top member at the edge of said second side member; a second side member at the edge of said second top member, overlying side and bottom members being secured together; means at one end of said members for closing the corresponding end of the box; and a drop cover member for the other end of the box formed from the corresponding portions of said top members and adjoining portions of said side members, substantially as described.

3. A box comprising a bottom member; a side member at one edge of said bottom member; a top member at the edge of said side member; a side member at the edge of said top member; a double bottom member at the edge of said last mentioned side member; a second side member at the other edge of said bottom member; a second top member at the edge of said second side member; a second side member at the edge of said second top member; means at one end of said members for closing the corresponding end of the box; flaps at one end of said first mentioned bottom and top members extending substantially half the depth of said box; a flap at the corresponding ends of opposite side members foldable over said first mentioned flaps; a tongue on the free edge of one of the flaps on said side members insertible between the opposite side members; and a drop cover member for the other end of the box formed from the corresponding portion of said top members and the adjoining portions of said side members, substantially as described.

4. A box comprising a bottom member a side member at one edge of said bottom member; a top member at the edge of said side member; a side member at the edge of said top member; a double bottom member at the edge of said last mentioned side member; a second side member at the other edge of said bottom member; a second top member at the edge of said second side member; a second side member at the edge of said second top member; means at one end of said members for closing the corresponding end of the box; flaps at one end of said first mentioned bottom and top members extend-

ing substantially half the depth of said box; a flap at the corresponding ends of opposite side members foldable over said first mentioned flaps; a tongue on the free edge of one of the flaps on said side members insertible between the opposite side members; a drop cover member for the other end of the box formed from the corresponding portion of said top members and the adjoining portions of said side members; flaps on the corresponding ends of said second side members foldable across the corresponding end of said cover; and a tongue on said second top member foldable over said last mentioned flaps and frictionally held within said cover, substantially as described.

5. A box comprising a bottom member; a member at one edge of said bottom member and foldable over said bottom member to form three consecutive walls of the box and a double bottom member; a second member at the opposite edge of said bottom member and foldable over the walls formed by said first mentioned member; means at one end of said members for closing the corresponding end of the box; a drop cover member for the other end of said box formed from the corresponding portions of said foldable members; and guide lips on said cover member operating within the box, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDWARD E. PINKERTON.

Witnesses:

JOSHUA R. H. POTTS,

HELEN F. LILLIS.