March 31, 1931. E. C. MARLOWE ET AL 1,798,333

BOX

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Fig. 1.

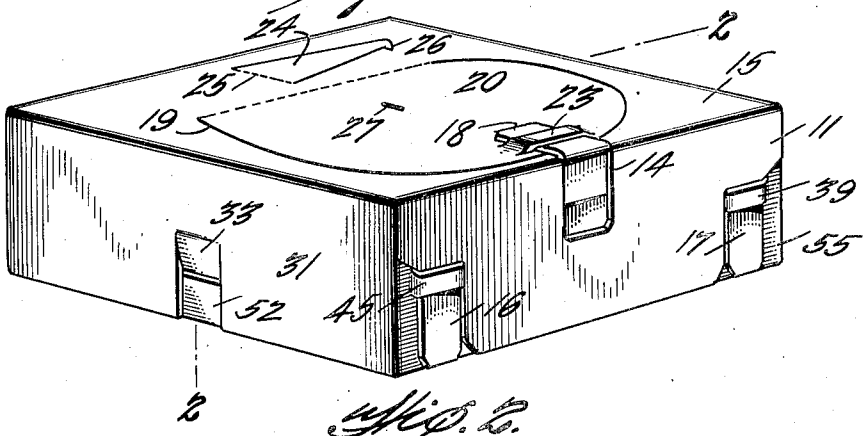


Fig. 2.

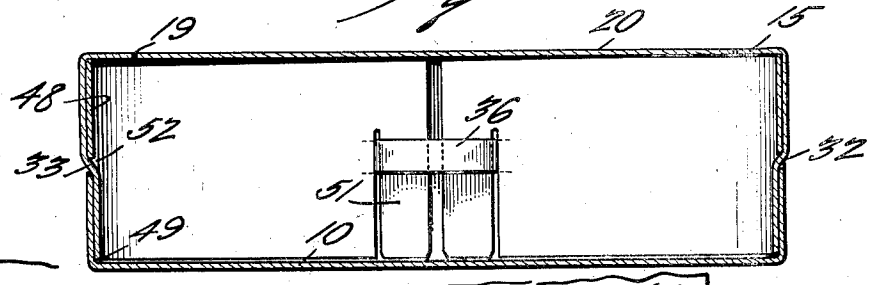


Fig. 3.

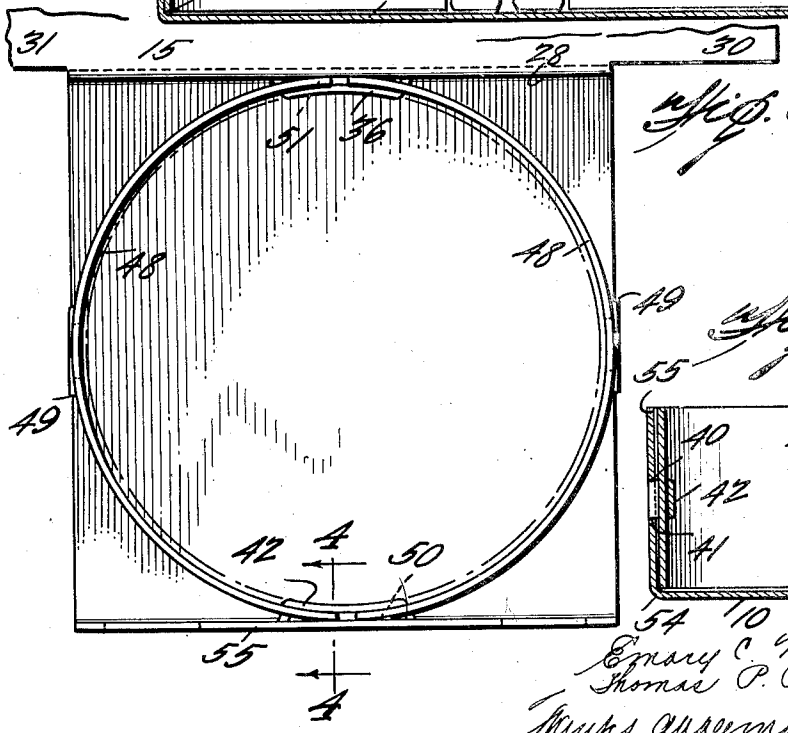


Fig. 4.

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Fig. 5.

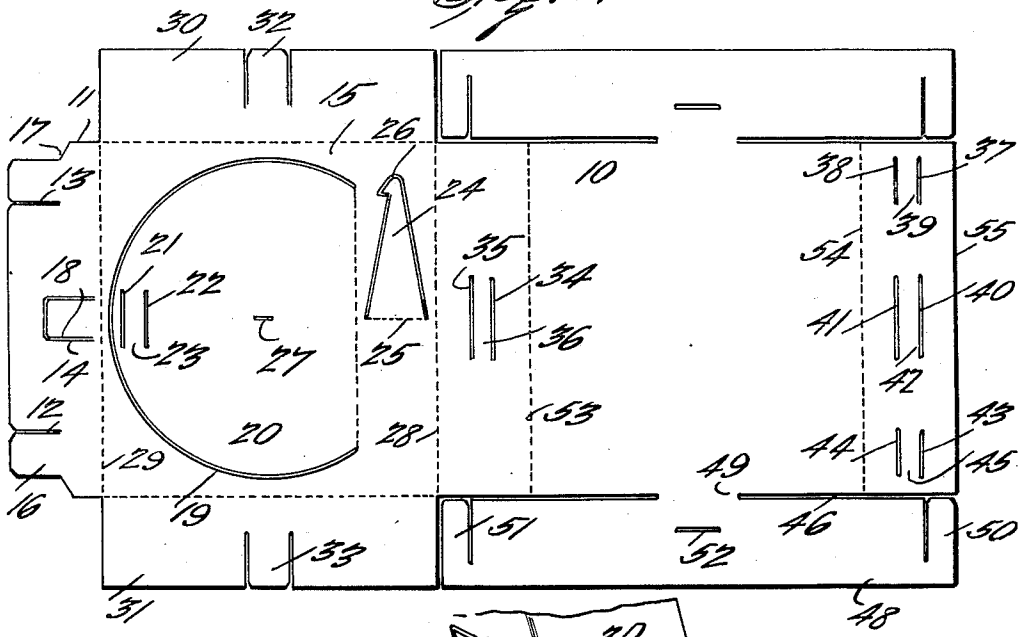


Fig. 6.

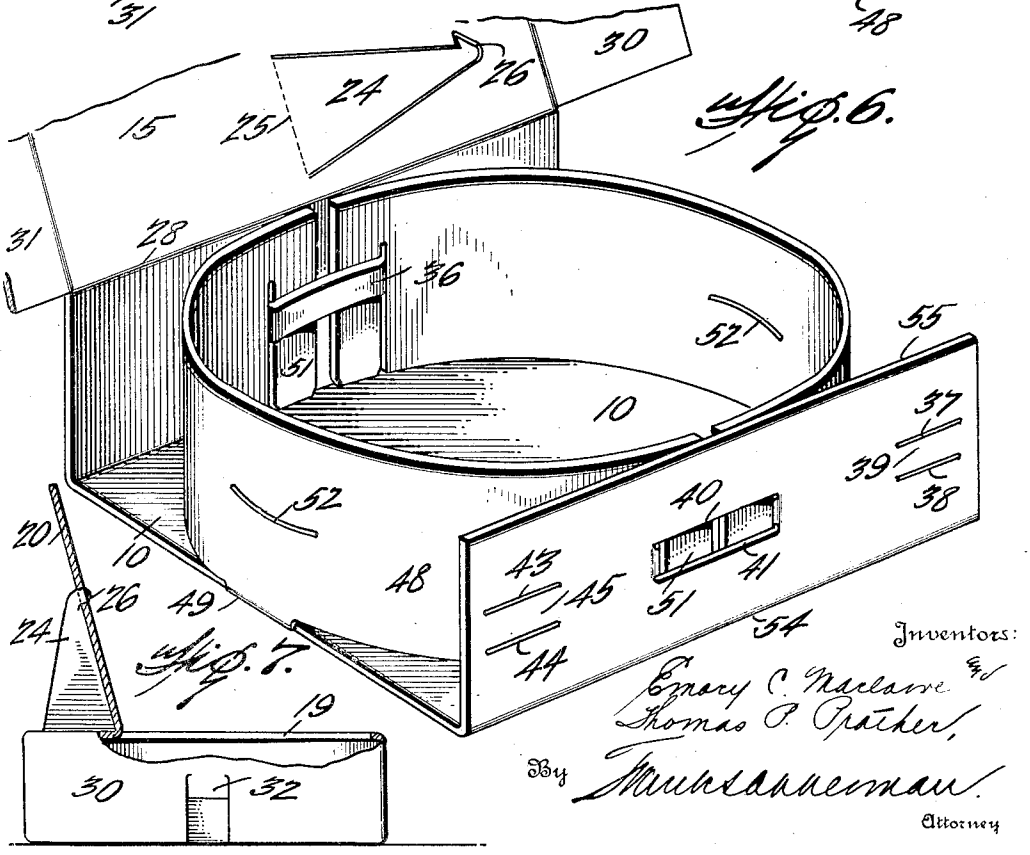


Fig. 7.

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Fig. 8.

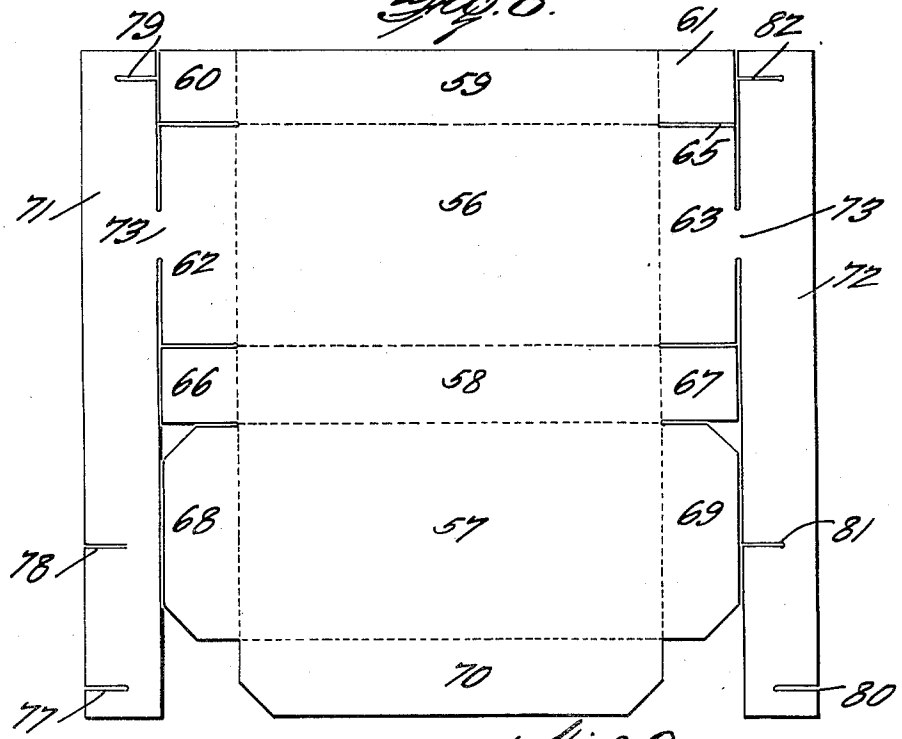


Fig. 9.

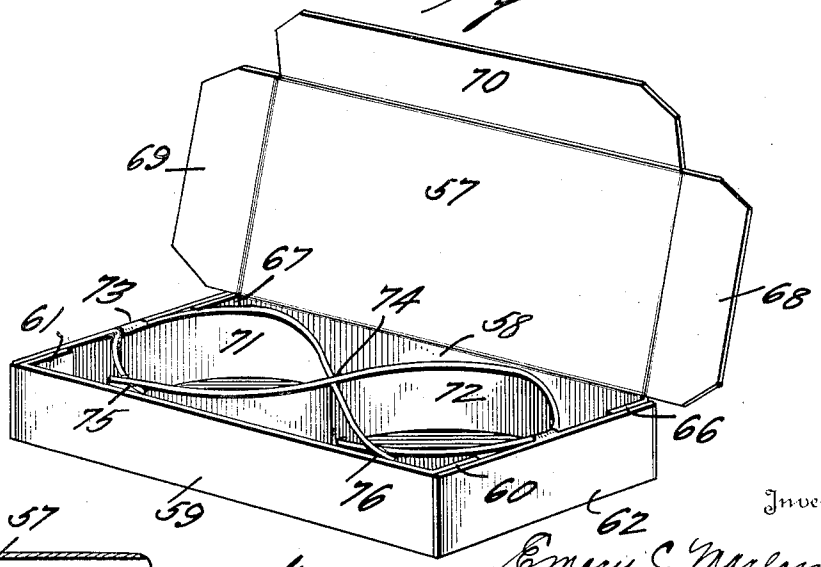
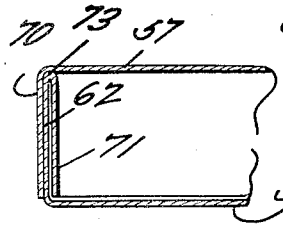


Fig. 10.



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Patented Mar. 31, 1931 1,798,333

UNITED STATES PATENT OFFICE

EMORY C. MARLOWE AND THOMAS P. PRATHER, OF LEXINGTON, KENTUCKY

BOX

Application filed May 9, 1929. Serial No. 361,710.

This invention relates to boxes or cartons for use in carrying cakes, pies, or the like, to prevent undue movement of the object in the box which might result in its being broken or distorted, and it is an object of this invention to provide a combined container and a retainer therein so that the contents will be housed and protected for transport.

It is a further object of this invention to provide a combined box and holder formed from a single blank or piece of stock material, capable of being bent or shaped and secured in form to accomplish the foregoing results, in order that a device having the advantages set forth may be produced expeditiously and comparatively inexpensively.

With the foregoing and other objects in view, the invention consists in the details of construction, and in the arrangement and combination of parts to be hereinafter more fully set forth and claimed.

In describing the invention in detail, reference will be had to the accompanying drawings forming part of this application, wherein like characters denote corresponding parts in the several views, and in which—

Figure 1 illustrates a view in perspective of the container in its assembled form;

Figure 2 illustrates a sectional view on the line 2—2 of Fig. 1;

Figure 3 illustrates a plan view of the interior of the container with parts of the margins omitted;

Figure 4 illustrates a sectional view on the line 4—4 of Fig. 3;

Figure 5 illustrates a plan view of the stock or sheet prior to its being folded;

Figure 6 illustrates a perspective view of parts of the same in a partly folded state;

Figure 7 illustrates a view in elevation, partly in section, of the said device;

Figure 8 illustrates a plan view of a blank for a box having a holder for two objects;

Figure 9 illustrates a perspective view of the same folded; and

Figure 10 illustrates a sectional view on the line 10—10 of Fig. 9.

In carrying the invention into practice, in the present embodiment of the invention, a sheet of material or stock, such as is used in making boxes for the purpose stated, is preferably stamped or cut to include the following characteristics. The product is substantially rectangular in plan, although, of course, it may be proportioned to suit particular requirements and the inventors do not wish to be limited with respect to this particular feature but, in the present embodiment of the invention, the blank, identified by the numeral 10, has a reduced projection 11 at one end, which projection has straight slits or slots 12 and 13 and an irregularly contoured slit or slot 14. In the further description, the cuts, such as are identified by the numerals 12, 13 and 14, will be referred to as "slots", as they are practical equivalents in a manufacture of this type, although, of course, there is a slight distinction mechanically.

The extension 11 constitutes what might be termed a flap which fits over the front surface of the container when that portion 15 of the blank is in position to form the cover of the container, and the said extension 11 has integral tongues 16, 17 and 18 which are formed by reason of the presence of the slots 12, 13 and 14.

That portion of the blank which consists of the cover is provided with a curved or segmental slot 19 and the portion of the cover between the ends of the slot is bent to hinge on the main portion of the cover and the said hinged portion may be termed a "door" or "lid" 20 which may be swung to an open position to reveal the contents of the container, or it may be closed, as it is shown in Figs. 1 and 5 and held closed by the tongue 18 being inserted in the slots 21 and 22 of the lid under a strap or keeper 23 between the said slots 21 and 22. The cover 15 is further stamped to form an arm 24 and its free end may be moved upwardly and hinged to the cover 15 on the line 25 so that it will assume a position at right angles to the surface of the cover. The arm is preferably provided with a projection 26 which is intended to enter a slot 27 of the lid when the said lid is open in order that the lid may be held open or in the position in which it is shown in Fig. 7.

That portion of the blank between the

dotted lines 28 and 29 is designated as the cover and it has extensions 30 and 31 which are intended to fold to form the sides of the container. The extensions are shaped to form tongues 32 and 33, respectively, for purposes to be presently explained.

The portion of the blank on the right hand side of the dotted line 28, shown in Fig. 5, when folded, comprises the bottom of the container, the front and rear walls thereof and the commodity retainer within the container, and in securing this result, the material is provided with slots 34 and 35 forming a strap or keeper 36. It is also slotted as at 37 and 38 to produce a strap or keeper 39; it is slotted at 40 and 41 to produce a strap or keeper 42; and it is slotted at 43 and 44 to produce a strap or keeper 45.

In further providing for the shaping and securing of the parts, the blank is slotted at 46 and 47 to produce the part 48 integral with the main part of the blank, but adapted to be bent at right angles to the bottom with the part 49 acting as a hinge which maintains the part 48 in fixed relation to the other part, except for the movement afforded by the hinge. The part 48 is slotted to form tongues 50 and 51 and it is also provided with a slot 52 to receive a tongue 33 of the side or extension 31. That part of the blank corresponding to the part 48 and situated opposite the part 48 has the same relation to the blank as the part 48 and it is therefore believed unnecessary to refer to the slots and tongues of that specifically.

That portion of the blank between the dotted lines 28 and 53 and that portion of the blank between the line 54 and the edge 55 are folded or bent on the lines 53 and 54, respectively, to form the rear wall of the container and the front wall of the container, respectively, and preferably thereafter the part 48 and the corresponding part opposite thereto are bent upwardly at right angles to the floor of the bottom of the container and are caused to assume curved formations with the tongue 50 engaging the strap or keeper 42 and the tongue 51 engaging the strap or keeper 36 and by this means the retainer is held so that the commodity, whether it be a cake or pie or the like, may be inserted in this ring-shaped retainer.

When the blank has been folded in accordance with the steps outlined herein, the cover may be hinged on the line 28 and the extensions 30 and 31 folded down in order that the tongues 32 and 33 may be inserted in appropriate slots such as 52. The front extension 11 will then be folded downward and its tongue 16 will be applied to the strap or keeper 45 and its tongue 17 will be applied to the strap or keeper 39. The tongue 18 will also be bent upwardly and rearwardly over the cover and in engagement with the strap or keeper 23 of the lid so that the lid will be held secure. As stated heretofore, for the purpose of displaying the contents of the container, the lid may remain insecured by the tongue and it may be opened and retained in an open position by the arm 24 which engages the lid 20.

In the modified construction, the blank may have any appropriate configuration and, in the present embodiment, it is intended that that portion of the blank 56 shall constitute the body of the box or container when folded and that the part of the blank 57 in the field of the dotted lines shall comprise the top or cover. The strip 58 between the top and bottom will stand vertically and form a side of the box, whereas the strip 59 will form the front side of the box. At the ends of the strip 59, tabs 60 and 61 are formed which are to be bent in into engagement with the ends of the container, which ends will be formed by bending the portions 62 and 63 upwardly on the dotted lines appearing in Fig. 8. The tabs are separated from the portions 62 and 63 by slots 64 and 65, respectively. The rear side part 58 has tabs 66 and 67 that are to be bent to engage the end portions when folded, whereas the cover 57 has wings 68 and 69 and a front wing or lip 70 which are to be folded to engage the front wall and the end walls, respectively, to form a closure.

As a means for retaining two articles against movement when placed in the box, a partition formed integral with the blank is shaped to form two enclosed spaces which will prevent the commodities placed therein from moving with relation to each other. The partition is of the general configuration of Fig. 8 with the loops thereof enclosing the spaces in which the commodities are placed. In this modification of the device, two side strips 71 and 72 are formed integral with those portions of the blank that constitute the ends of the container or box when folded, but the junction between these elements is rather narrow, as shown at 73. In other words, the connection 73 constitutes a hinge on the line of which the strips 71 and 72 are folded so that they lie against the inner surfaces of the ends 62 and 63 when folded, and the strips are caused to interengage between their ends, as at 74, whereas their ends are connected together, as at 75 and 76, whereby the strips are held to form the double partition mentioned. In order that the strips may properly interlock, the strip 71 has slots 77 and 78 extending inwardly from its outer edge near one end and a slot 79 extending outwardly from its inner edge near its opposite end, whereas the strip 72 has a slot 80 extending inwardly from its outer edge near one end and a slot 81 extending outwardly from its inner edge and another slot 82 also extending outwardly from its inner edge so that when the slot of one member is in alinement with

the slot of another member, the strips may be moved transversely of each other into interlocked positions in which they are shown in Figure 10.

In the modified form, means are not shown for holding the cover closed, nor for causing interlocked engagements between the several parts, since they may be provided with any appropriate tongues and slots for this purpose, as is well known in the art.

We claim:

1. In a box, a blank having integral portions comprising a bottom, integral portions at the edges of that part constituting the bottom, two of the opposed integral portions being bent upwardly to form the ends of the box, the other two opposed portions being separated from that part constituting the bottom except at the centers thereof at which locations they are integral with that portion having the bottom and adapted to be bent at the said integral portions at right angles to the portion constituting the bottom and curved to form holding devices, means for anchoring the same at their ends to the ends of the container, an integral portion of the said blank being adapted to overlie the bottom to provide a cover, and means for holding the cover in closed position.

2. In a box, a blank having integral portions comprising a bottom, integral portions at the edges to that part constituting the bottom, two of the opposed integral portions being bent upwardly to form the ends of the box, the other two opposed portions being separated from that part constituting the bottom except at the centers thereof at which locations they are integral with that portion having the bottom and adapted to be bent at the said integral portions at right angles to the portion constituting the bottom and curved to form holding devices, means for anchoring the same at their ends to the ends of the container, an integral portion of the said blank being adapted to overlie the bottom to provide a cover, means for holding the cover in closed position, and a lid integral with the cover adapted to be hinged for revealing the contents of the box.

3. In a box, a blank having integral portions comprising a bottom, integral portions at the edges of that part constituting the bottom, two of the opposed integral portions being bent upwardly to form the ends of the box, the other two opposed portions being separated from that part constituting the bottom except at the centers thereof at which locations they are integral with that portion having the bottom and adapted to be bent at the said integral portions at right angles to the portion constituting the bottom and curved to form holding devices, means for anchoring the same at their ends to the ends of the container, an integral portion of the said blank being adapted to overlie the bottom to provide a cover, means for holding the cover in closed position, a lid forming a part of the cover adapted to be hinged for revealing the contents of the box, and means integral with the cover for holding the lid open.

4. In a box, a blank shaped to form the bottom of the box and having integral opposed parts adapted to be bent to form the ends of the box and opposed integral parts severed from that part of the blank forming the bottom, except at locations near their centers and adapted to be folded upwardly to form retaining devices, means for holding the retaining devices in operative positions, the said retaining devices having slots, a cover integral with the blank adapted to overlie the bottom and having tongues insertable in the slots of the said devices, the said cover having an extension forming a front flap, tongues thereon, and tongue engaging elements on the front wall of the box.

5. In a box, a blank shaped to form the bottom of the box and having integral opposed parts adapted to be bent to form the ends of the box and opposed integral parts severed from that part of the blank forming the bottom, except at locations near their centers and adapted to be folded upwardly to form retaining devices, means for holding the retaining devices in operative positions, the said retaining devices having slots, a cover integral with the blank adapted to overlie the bottom and having tongues insertable in the slots of the said devices, the said cover having an extension forming a front flap, tongues thereon, tongue engaging elements on the front wall of the box, a tongue integral with the flap, a lid integral with the cover, and means engaging the said last mentioned tongue for holding the lid closed.

6. In a box, a blank shaped to form the bottom of the box and having integral opposed parts adapted to be bent to form the ends of the box and opposed integral parts severed from that part of the blank forming the bottom, except at locations near their centers and adapted to be folded upwardly to form retaining devices, tongues on the retaining devices, means associated with the ends of the box for holding the retaining devices in operative positions, the said retaining devices having slots, a cover integral with the blank adapted to overlie the bottom and having tongues insertable in the slots of the said devices, the said cover having an extension forming a front flap, tongues thereon, and tongue engaging elements on the front wall of the box.

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