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LOCKING DEVICE FOR BOX COVERS

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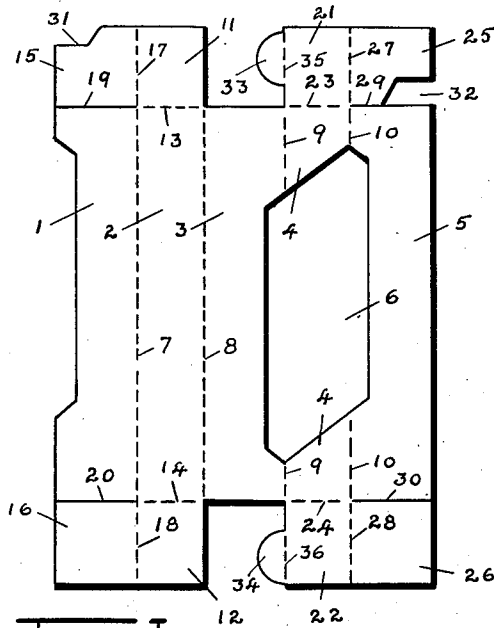


Fig. 1

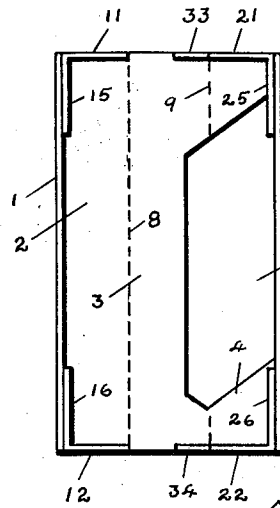


Fig. 2

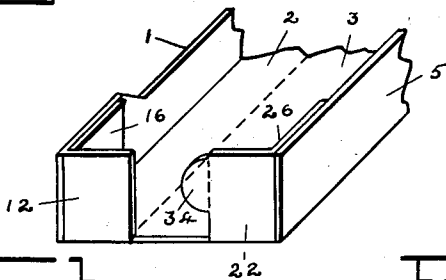


Fig. 3

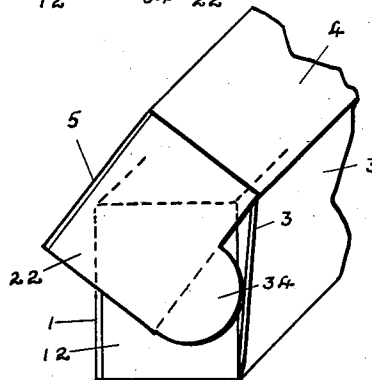


Fig. 4

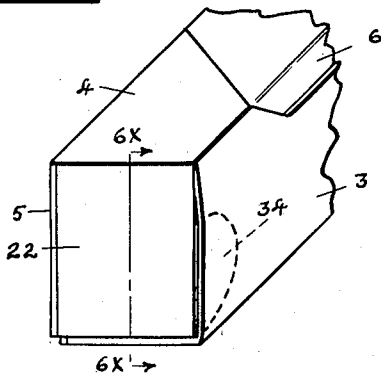


Fig. 5

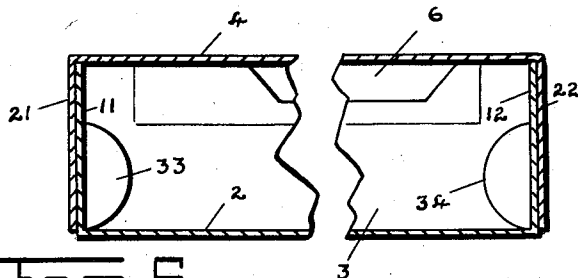


Fig. 6

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LOCKING DEVICE FOR BOX COVERS

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1 Claim. (Cl. 229—33)

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The object of this invention is to make a box that is folded out of a one piece blank, which blank is provided with one or more extensions, which extend in the box when folded and will serve as a locking device or as locking devices.

Another object of the invention is to make the box so that the extension that serves as a locking device will be inserted between one edge of an end of the box and along the side of an adjacent side of the box.

These and other objects of the invention will be illustrated in the drawings, described in the specification and pointed out in the claim at the end thereof.

In the drawings:

Fig. 1 is a plan view of the inside surface of the blank from which the box is formed.

Fig. 2 is a plan view of the inside of the box partially folded up or erected from the blank shown in Fig. 1 with the small end sections of the blank glued in four places to two of the long sections of the blank.

Fig. 3 is a perspective view of the lower end of Fig. 2.

Fig. 4 is a perspective view of one end of the box with the top partially folded over on the body of the box with the locking tab shown extended.

Fig. 5 is a perspective view of one end of the box with the top fully folded over and the locking tab concealed in locking position.

Fig. 6 is a sectional view of the box, the section being taken on the line 6x, 6x of Fig. 5, the box being shown partly broken away in the middle and the locking tabs being shown in locking position.

It will be understood that Figs. 4, 5 and 6 show the box or the parts thereof somewhat enlarged over the showing made in Figs. 1, 2 and 3.

In the drawings, like reference numerals indicate like parts. In Figure 1 of the drawings, reference numeral 1 indicates the front of the box. 2 indicates the bottom of the box. 3 indicates the back of the box. 4 indicates the top of the cover of the box and 5 indicates the front of the cover of the box. The front 1, the back 3 and the front 5 are all side walls, it being understood that the front 5 overlaps the front 1 in the finished box and that the front 1 and back 3 extend up from the bottom 2 of the box and the front 5 extends down from the top of the box. 6 indicates a window in the cover of the box which can be omitted if desired or which may be left open and covered with cellophane or any other similar material.

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The several parts 1, 2, 3, 4 and 5 above referred to are connected in the blank by the scored lines 7, 8, 9 and 10.

Connected at each end of the bottom 2 of the box are the end sections 11 and 12 of the body of the box. These sections 11 and 12 are connected to the bottom of the box by the scored lines 13 and 14. Connected to these end sections 11 and 12 are the corner tabs 15 and 16 which are connected to the sections 11 and 12 on the scored lines 17 and 18. The tabs 15 and 16 are made separate from the front 1 of the box by being cut on the lines 19 and 20. On the right hand side of Fig. 1 are provided the end sections 21 and 22 of the cover which are connected to the top of the cover 4 on the scored lines 23 and 24. To these end sections of the cover are connected the corner tabs 25 and 26 on the scored lines 27 and 28.

These corner tabs are cut free from the front 5 of the cover on the lines 29 and 30. The corner tabs 15 and 25 are cut away as indicated at 31 and 32 to conform to the upper corner of the front 1 of the box and the upper corner of the window 6.

On the end sections 21 and 22 I provide the locking devices 33 and 34. These are connected to their respective sections on the scored lines 35 and 36 shown between them.

In Fig. 2 I have shown the corner tabs 15 and 16 glued to the inside front 1 of the box and I have shown the corner tabs 25 and 26 glued to the inside of the front 5 of the cover of the box.

As stated above, Fig. 3 is a perspective view of the lower end of Fig. 2 showing the parts of the box ready to be moved to the position shown in Fig. 4 in which the cover of the box is partially folded over the body of the box. In this Fig. 4, the locking device 34 is shown ready to be inserted between the edge of the end section 12 and the back of the box 3 where it will be held by friction. At the other end of the box, the locking device 33 will be in position to be inserted between the edge of the end section 11 and the back 3 of the box where it will also be held by friction. These locking devices will not be glued for that would prevent the opening of the box.

When the locking device 34 is in locking position as shown in Fig. 5, it is concealed inside of the box and the end section 22 would be in the position shown in Fig. 5. The locking devices 33 and 34 will be in the position shown in full lines on the inside of the box in Fig. 6.

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I claim:

A folding display box formed wholly from a single blank comprising an elongated rectangular bottom, a first and second side wall connected to the bottom, a cover connected with the second side wall, an inspection aperture in said cover, a third side wall connected to and adapted to extend down from the cover in overlapping relation to the first side wall, end sections of substantially square configuration connected to the bottom of the box, corner flaps connected to the end sections at one side thereof only and secured to the first side wall, the ends of said second side wall terminating in a free edge, end sections connected to the cover of the box of substantially square configuration, said last-named end sections having corner flaps connected to one side thereof and secured to the third side wall and having friction locking tabs connected to the other side of said last-named end sections, said tabs extending toward the first-named end sections, and being adjacent the end of the last-named end sections and terminating short of the connection of the last-

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named end sections with the cover, said parts when erected into a closed box having an opening between the edge of the end sections attached to the bottom of the box and the adjacent second side wall of the box into which opening the frictionally locking tabs can engage for the purpose of locking the cover of the box closed on the box.

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The following references are of record in the file of this patent:

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