No. 650,625. Patented May 29, 1900.

Z. B. WEBB.

FOLDING BOX.

(Application filed Oct. 18, 1899.)

(No Model.)

Fig. 1.

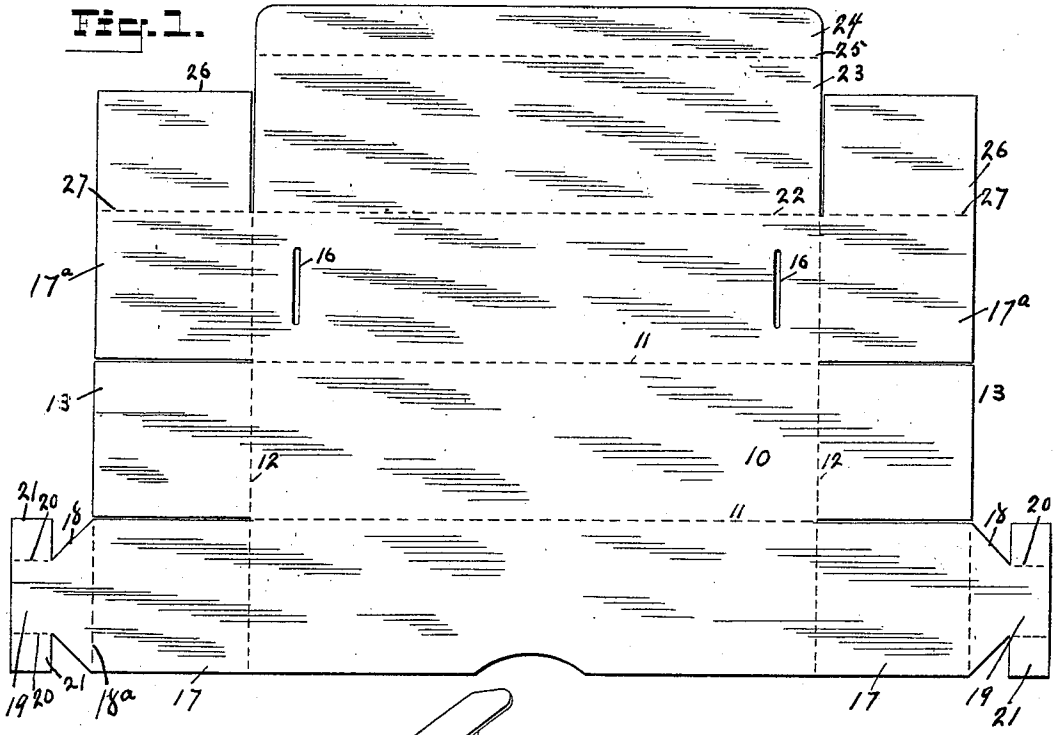


Fig. 2.

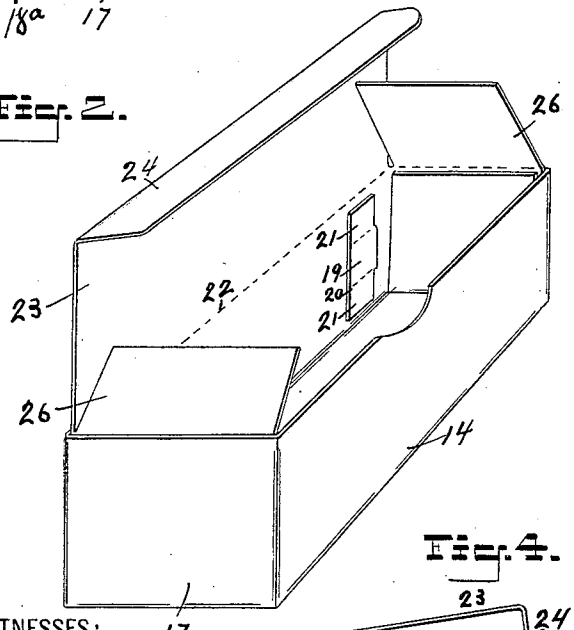


Fig. 3.

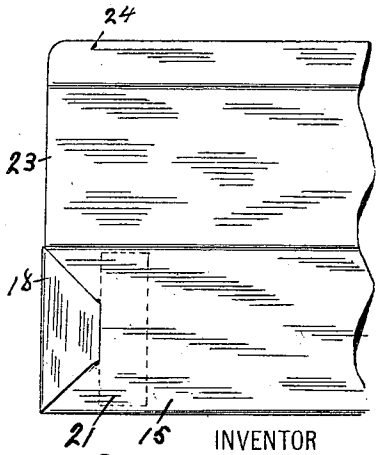
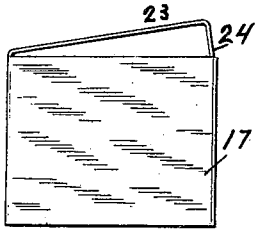


Fig. 4.



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ZAIDA B. WEBB, OF WHIPPANY, NEW JERSEY, ASSIGNOR, BY MESNE ASSIGNMENTS, TO HENRY S. WASHINGTON, OF LOCUST, AND JOHN S. W. THOMPSON, OF MORRISTOWN, NEW JERSEY.

FOLDING BOX.

SPECIFICATION forming part of Letters Patent No. 650,625, dated May 29, 1900.

Application filed October 18, 1899. Serial No. 733,946. (No model.)

To all whom it may concern:

Be it known that I, ZAIDA B. WEBB, of Whippany, in the county of Morris and State of New Jersey, have invented certain new and useful Improvements in Folding Boxes, of which the following is a full, clear, and exact description.

My invention relates to improvements in folding boxes of the class which are adapted to have the blank lie out flat for shipment or fold up to form a box; and the object of my invention is to produce a very simple form of folding box which cuts to great advantage and which has an especially strong and convenient means for fastening the several parts together.

To this end my invention consists of a folding box constructed substantially as hereinafter described and claimed.

In the drawings, wherein similar figures of reference designate similar parts, Figure 1 is a development of the box-blank. Fig. 2 is a perspective view of the box when set up for use, the top or cover being open. Fig. 3 is a broken rear elevation of the box with the top or cover open; and Fig. 4 is an end view of the box, the cover being shown in position to close down upon the box-body.

The blank is made of paper or other foldable material, and it comprises a bottom 10, which is formed by the parallel score-lines 11 and the second parallel score-lines 12, these score-lines 11 and 12 intersecting at the corners, as the drawings show, thus forming the end and side pieces 13 and 14. The score-lines 11 after passing the score-lines 12 are cut through, so that the end pieces 13 may be free and clear to turn up to a vertical position, and the score-lines 12 are continued along the blank, forming the side pieces 14 and 15 and also forming the end flaps 17 and 17^a, which when the side pieces 14 and 15 are turned up to a vertical position are adapted to fold inward across the box ends, as presently described. The side piece 15 forms the back of the box, and in it are the slots 16, which are placed, preferably, near the ends and which are vertically arranged, although this arrangement is not essential. The end flaps 17 have projecting reduced extensions 18, which are adapted to fold over on the lines 18^a, and these extensions terminate in tongues 19, the width of a tongue at its middle portion—that is, the part between the lines 20—corresponding to the length of the slots 16. Each tongue 19 has wings 21, which are adapted to fold inward on the tongue-body, so that the whole may be tucked readily through one of the slots 16, after which the wings are opened up, as shown in Fig. 2, to make a secure fastening.

The side piece 15 can be provided with an extension forming the top or cover 23, which is separated from the side piece by the score-line 22 and which has at its free edge a tongue 24, the tongue being separated from the top or cover by the score-line 25 and being adapted also to tuck into the box when the latter is closed in the usual manner. The end flaps 17^a are also provided with extension-flaps 26, which are separated from the end flaps by the score-line 27 and which are free from the cover or top 23, so that when the box is folded up these extension-flaps 26 are adapted to fold inward into the box, as shown in Fig. 2. This arrangement of flaps 26 and cover 23 is common to many folding boxes and can be used or not with my improved box, as desired. The essential part of my box lies in the arrangement of the fastening means, and it will be noticed that the whole blank as constructed is practically rectangular in shape and cuts to great advantage.

When the box is to be set up, the end pieces 13 are turned up to a vertical position, the side pieces 14 and 15 are likewise turned up to a vertical position, the end flaps 17^a are folded inward against and parallel with the end pieces 13, and the end flaps 17 are folded inward, so as to overlap the end pieces and the end flaps 17^a, the extensions 18 are bent around the back of the box, the wings 21 are turned inward on the lines 20 and tucked through the slots 16, and the wings 21 are then opened, as shown in Fig. 2, thus making a positive fastening and preventing the accidental withdrawal of the fastening-tongues.

It will be seen, of course, that in a wide box the fastening-tongues might be produced on both the end flaps 17 and 17^a and the slots made through the box ends with the same effect; but the box would not be so strong, be-

cause by making the box as shown the end flap 17, together with the extension 18, serves as a sort of hoop extending around the box ends and binding the box front, end, and back together.

It will be noticed that if the flaps 26 and cover or top 23 are left off the blank then a rectangular box-body is formed which can be used with a cover similarly formed or with any appropriate cover or even without a cover.

It will be noticed that if the flaps 17^a were dispensed with, still a box could be made which would not be quite so good, but would answer for some purposes.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. As an improved article of manufacture, a box-blank comprising a bottom portion scored around, end pieces projecting from opposite sides of the bottom portion, side pieces, one of which has slots therein, projecting from the two remaining sides of the bottom portion, end flaps projecting from the ends of the slotted side pieces, and a second pair of end flaps projecting from the opposite side piece, the second pair of end flaps being long enough to overlap the box ends and provided with tongues to enter the aforesaid slots when the box is folded.

2. A box-blank comprising a scored-around bottom portion, end pieces projecting from opposite sides of the bottom portion, side pieces projecting from the two remaining opposite sides of the bottom, one of said side pieces being slotted, end flaps projecting from the slotted side piece, a second pair of end flaps projecting from the second side piece, and tongues on the second pair of end flaps, said tongues being of a width wider than the length of the slots aforesaid so as to be thrust through the slots in a doubled or folded position.

3. A folding box comprising a bottom portion, end pieces projecting from opposite sides thereof, side pieces projecting from the two remaining sides, one of said side pieces being provided with slots, end flaps on the slotted side pieces, a second pair of end flaps on the second side piece, an extension on each of the second end flaps, and foldable tongues on each of said extensions, said tongues being adapted to be pushed through the aforesaid slots, substantially as described.

4. A folding box comprising a bottom piece, end pieces projecting from opposite sides thereof, side pieces projecting from the two remaining opposite sides of the bottom piece, one of the said pieces being slotted, and flaps projecting from the unslotted side pieces, said flaps being long enough to overlap the box ends and having terminal tongues wider than the length of the slots, substantially as described.

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