No. 829,567. PATENTED AUG. 28, 1906.

F. W. BOYNTON.

CARDBOARD BOX.

APPLICATION FILED MAR. 21, 1904.

FIG. 1

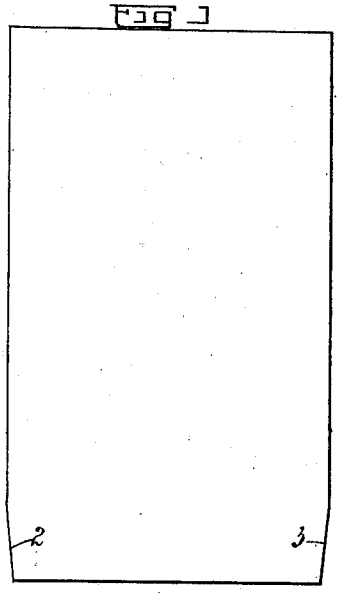


FIG. 2

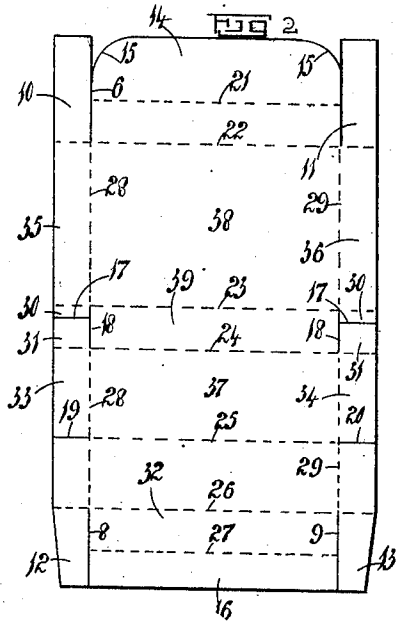


FIG. 3

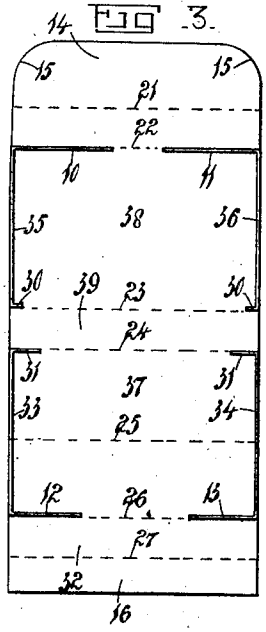


FIG. 4

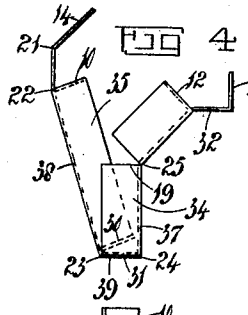


FIG. 5

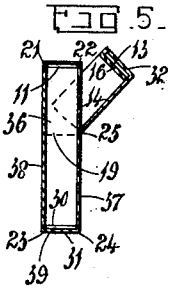


FIG. 6

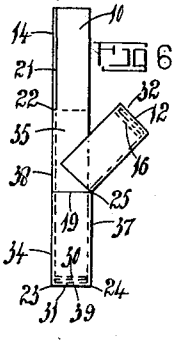
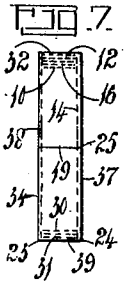


FIG. 7



Witnesses:—
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UNITED STATES PATENT OFFICE.

FRANCIS WILLIAM BOYNTON, OF AUCKLAND, NEW ZEALAND.

CARDBOARD BOX.

No. 829,567. Specification of Letters Patent. Patented Aug. 28, 1906.

Application filed March 21, 1904. Serial No. 199,270.

To all whom it may concern:

Be it known that I, FRANCIS WILLIAM BOYNTON, printers' furnisher, a subject of His Majesty the King of Great Britain and Ireland, residing in Fort street, Auckland, in the provincial district of Auckland, in the Colony of New Zealand, have invented new and useful Improvements in Cardboard Boxes, of which the following is a specification.

This invention relates to the construction of cardboard boxes, and more especially to the type of such boxes used to contain stationery, confectionery, haberdashery, and the like.

According to my invention a box is constructed of a single piece of cardboard shaped, scored, and cut so that it may be readily folded to form a very strong box having an integral lid which may be opened and closed as often as desired.

Referring to the accompanying drawings, Figure 1 is a plan view of a sheet of cardboard. Fig. 2 is a similar view showing the same sheet shaped, scored, and cut for the formation of a box. Fig. 3 is a plan, and Figs. 4 and 5 end sectional elevations showing steps in the operation of construction. Fig. 6 is an end elevation showing the finished box open, and Fig. 7 a similar view showing the box closed.

In constructing my box I employ a sheet of cardboard 1 of the shape shown in Fig. 1, the corners 2 and 3 of the card having been cut off at an angle. I then, as shown in Fig. 2, cut through the card upon the full lines 6, 7, 8, and 9 to produce the cover-flap pieces 10 and 11, the lid-flap pieces 12 and 13, the cover-flap 14, (which for the sake of appearance has rounded corners 15,) and the lid-flap 16. At the same time the cardboard is cut through upon the full lines 17, 18, 19, and 20 and scored upon the dotted lines 21, 22, 23, 24, 25, 26, and 27 and upon the dotted lines 28 and 29. In producing the box the sides of the card are first bent upwardly upon the scores 28 and 29 and the flap-pieces 10, 11, 12, and 13 bent inwardly at right angles, as shown in Fig. 3. The bottom flaps 30 and 31, produced by the right-angle cuts 17 and 18, are also bent inwardly upon the scores 23 and 24, respectively. The card is then folded, as shown in Fig. 4, upon the scores 23 and 24, the part 37 forming the front, part 38 the back, and part 39 the bottom of the box, and the flaps 12 and 13 being glued to the inside of the top of the lid 32. The lid-flap 16 is then folded over them, as shown in Fig. 5, the sides 35 and 36 are folded within the sides 33 and 34 and secured thereto by glue, wire staples, or the like, the flaps 30 at the bottom of sides 35 and 36 closing down upon the flaps 31 and maintaining them in position upon the bottom 39. The box is closed by a folding cover-flap 14, as shown in Fig. 5, and then closing the lid-flap 16 upon the cover-flap. The folding of the lid, as shown in Fig. 5, has the effect of giving elasticity to the lid, so that it springs down upon the cover-flap and retains itself in its closed position. The box is then complete and may be opened and closed, as desired, the lid turning over upon the scored line 25 as upon a hinge, the cuts 19 and 20 allowing this to be done, and the cover-flap being turned up upon the scored line 22, as shown in Fig. 6.

Fig. 7 shows the box closed.

A most important feature in the construction of my box is the employment of the flaps which are integral with the sides and rest upon the bottom of the box with the flaps upon the bottom edges of the opposing sides of the box resting upon them. This arrangement makes the box very rigid and secure.

Having now particularly described and ascertained the nature of my said invention, and in what manner the same is to be performed, I declare that what I claim is—

As a new article of manufacture, a cardboard box comprising a front and back, a bottom integral with and situated between the front and back, sides integral with the back, sides integral with the front and being cut through near their middle part, a hinge across the front and corresponding to the said cuts and whereby the box may be opened, lid-flap pieces integral with the sides of the front, cover-flap pieces integral with the sides of the back, a cover-flap integral with the back, lid-flap pieces integral with the sides

of the front and adapted to fold beneath the cover-flap pieces, flaps integral with the sides of the front and adapted to rest upon the bottom when the box is folded, flaps integral with the sides of the back and closing down upon the flaps resting upon the bottom, a cover-flap scored across its central part, and a lid-flap scored across its central part folded upon itself and adapted to close upon the cover-flap, as specified.

FRANCIS WILLIAM BOYNTON.

Witnesses:

E. S. BALDWIN,

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