May 22, 1951 R. A. SAMSING 2,553,870

BOX BLANK AND BOX

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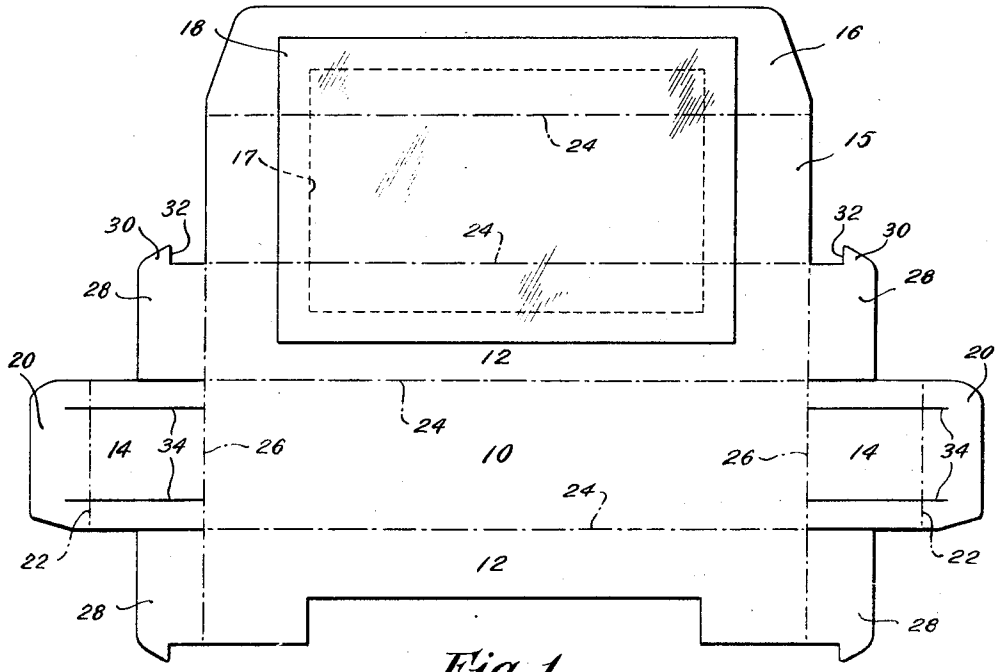

Fig. 1.

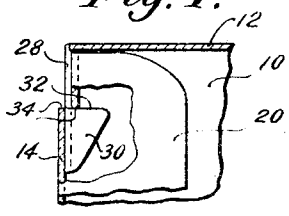

Fig. 4.

Fig. 2.

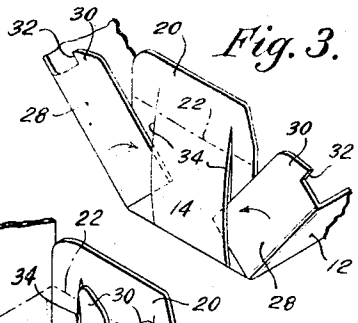

Fig. 3.

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BOX BLANK AND BOX

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This invention relates to a novel paperboard box blank particularly adapted to be set up to box form by machinery, and to the novel box thus produced. The blank is constructed in one piece and includes an end wall panel at each end of the bottom wall and slotted to receive cooperating end-wall-forming side wall flaps. Each such flap carries an outwardly projecting locking tab adapted to bend to a right angular position with the free end portion of the end wall panel and thus securely anchoring the flaps to the end wall panel. The production of an improved blank and box of this nature as hereinafter more specifically described comprises the primary object of the invention.

These and other features of the invention will be best understood and appreciated from the following description of a preferred embodiment thereof selected for purposes of illustration and shown in the accompanying drawing in which,

Fig. 1 is an inner plan view of the blank,

Fig. 2 illustrates the blank set up to box form,

Fig. 3 is a fragmentary view illustrating the setting up operation, and

Fig. 4 is a fragmentary sectional view taken on line 4—4 of Fig. 2.

The blank illustrated comprises a single sheet of paperboard cut to the shape shown in Fig. 1 and embodying a bottom panel 10, side wall panels 12 and end wall panels 14. A cover 15 including a tuck flap 16 can be provided on one side wall if desired, and the cover can be cut out at 17 and provided with a window sheet 18 of transparent cellophane.

An end tab 20 is integral with each end wall panel 14 and extends outwardly beyond a crease line 22 across the junction of the tab and panel. The blank is fold creased longitudinally at 24 and transversely at 26 and also includes an end-wall-forming flap 28 integral with and extending outwardly beyond each end of each side wall panel 12. A locking tab 30 is carried by and projects laterally beyond the outer side margin of each flap 28 and has an abrupt locking shoulder 32 facing inwardly of the blank.

The end wall panel 14 and tab 20 are provided with two cuts 34 therein parallel with and adjacent to the side margins and intersecting the crease line 22. These cuts start at the crease line 26 and are of a length substantially equal to the width of the flaps 28 and locking tabs 30, the cuts being adapted to receive the flaps and locking tabs as hereinafter described.

The blank is folded to box form by (1) raising the end wall panels 14 to the upright position and

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holding the cuts 34 open as illustrated in Fig. 3, (2) raising the end wall flaps 28 to upright position and (3) then raising the side wall panels 12 in a manner tucking the flaps into the open cuts. When these operations are completed the box will be assembled to the form shown in Fig. 2 and when the end tabs 20 are bent on the crease line 22 to a horizontal position the locking tabs 30 therebeneath will also be bent horizontally to a position engaging the shoulders 32 against the outer walls of the cuts as illustrated in Fig. 4 and will be held in such position by the tabs 20. While the slits 34 are preferably straight and parallel and of a length corresponding to the width of the flaps 28 and tabs 30, it will be understood that these features can be considerably modified within the scope of the invention so long as the locking tabs 30 are constructed to perform the locking function shown in Fig. 4. The construction is extremely simple and economical and the convenient and easy setting up of the blank by machinery is of considerable economic importance.

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

1. A box blank comprising a sheet of paperboard creased to provide bottom, side and end wall panels, each end wall panel being integral with and extending outwardly beyond an end of the bottom wall panel and each having a tab integral with the end wall panel and extending outwardly beyond a crease line across the junction of the tab and panel, each end wall panel and tab having two cuts therein parallel with and adjacent to its side margins and intersecting said crease line, an end wall flap integral with and extending outwardly beyond each end of each side panel and of a width equal to the length of the end wall panel, and a locking tab on and projecting laterally beyond the outer side margin of each flap and having an abrupt locking shoulder facing inwardly of the blank, the flaps and locking tabs being adapted to tuck into the adjacent cuts with the locking tabs extending outwardly beyond said crease line and overlapping the first named tabs.

2. A box comprising bottom, side and end walls formed from a single sheet of paperboard folded on crease lines, each end wall including a panel integral with the bottom wall and having a tab on its free end beyond a crease line at the junction of the tab and panel, said tab and panel having two cuts therein adjacent to the side margins and intersecting said crease line, and

a flap and attached locking tab on each end of each side wall extending through the adjacent cut with the locking tab extending upwardly beyond the crease line.

3. A box blank comprising a sheet of paperboard creased to provide bottom, side and end wall panels, each end wall panel being integral with and extending outwardly beyond an end of the bottom wall panel and each having an end tab integral with the end wall panel and extending outwardly beyond a crease line across the junction of the tab and panel, each end wall panel and tab having two cuts therein extending

transversely of and across said crease line, an end wall flap integral with and extending outwardly beyond each end of each side panel, and a locking tab on and projecting laterally beyond the outer side margin of each flap and having a locking shoulder facing inwardly of the blank, the flaps and locking tabs being adapted to tuck into the adjacent cuts with the locking tabs extending outwardly beyond said crease line and overlapping the end tabs.

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No references cited.