July 25, 1933. G. C. SNELL 1,919,912

CONTAINER

Filed Dec. 9, 1931

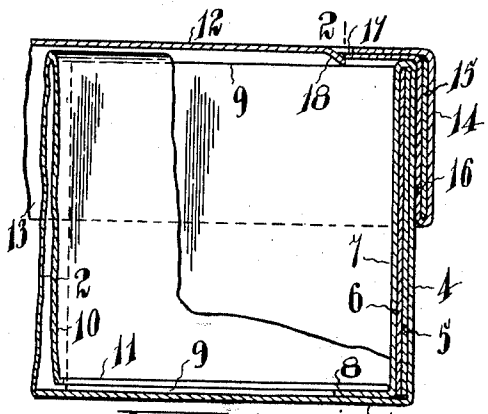


Fig. 1.

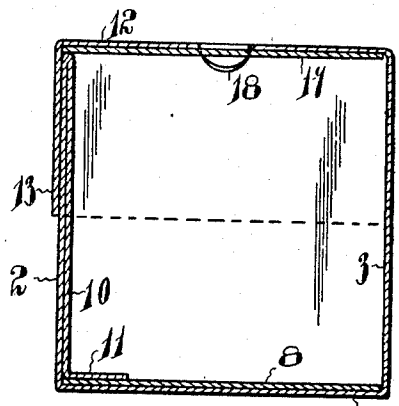


Fig. 2.

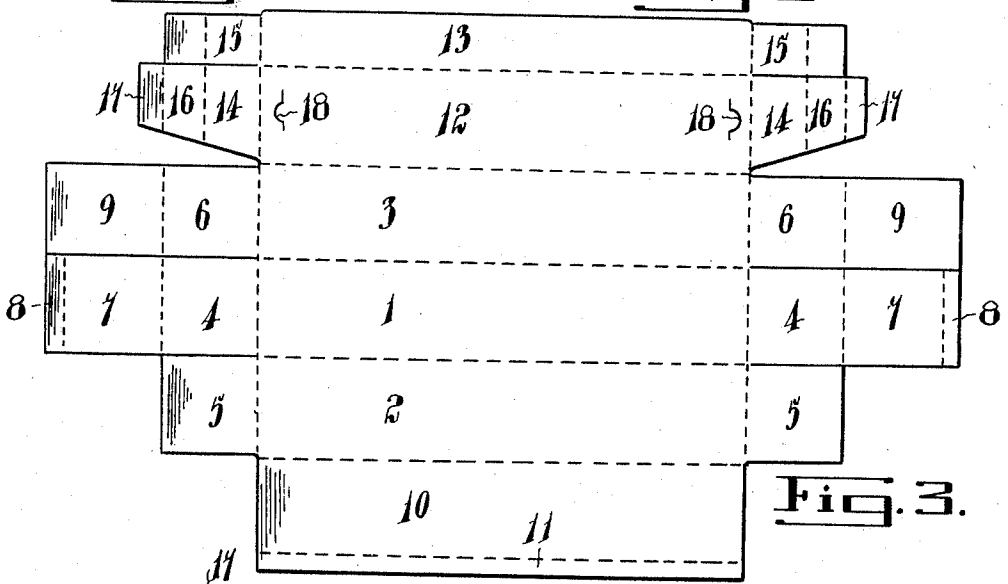


Fig. 3.

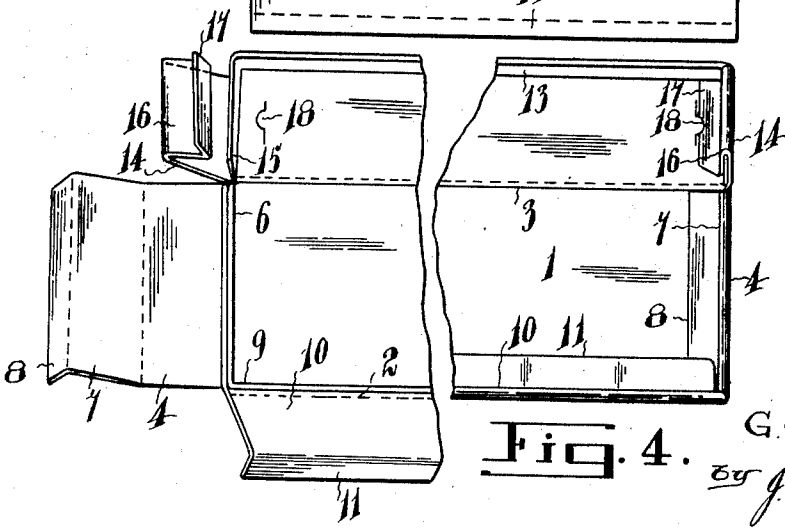


Fig. 4.

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UNITED STATES PATENT OFFICE

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CONTAINER

Application filed December 9, 1931, Serial No. 579,897, and in Canada April 10, 1931.

This invention relates to containers, and more particularly to cardboard containers for wax paper.

The object of this invention is to provide a secure anchorage for the side of a one-piece knock-down box or container whereby the side is better adapted to support a hinged cover or lid such as is, for instance, used as a combined closing means and cutting means for wax paper. A further object is to construct such a box or container which is simple in construction and may be easily assembled without the use of tabs or slots.

My object is attained by making the container in a known manner with a bottom, sides and ends, preferably all integral, and by providing said sides and ends with flaps which constitute interlocking anchoring means. More particularly my object is attained by providing an extension flap on the end flap of the side to which the cover is hinged, which end flap passes under a folded in flap on the upper edge of the end of the box, and the extension flap extends beyond the folded in flap and is bent at an angle thereto, whereby the end flap of the side is anchored beneath said folded in flap and prevents the side from pulling out, and the other side is provided with a flap connected to its longitudinal edge which folds down into the box over the extension flap.

The invention is hereinafter more specifically described and illustrated in the accompanying drawing in which

Fig. 1 is a longitudinal cross section of the closed box, partly broken away, looking towards the front of the box;

Fig. 2 is a cross section on the line 2—2 in Fig. 1;

Fig. 3 the blank from which the box is made; and

Fig. 4 a plan view of the box, showing the lid open, and one end of the box in the process of assembly.

In the drawing like numerals of reference indicate corresponding parts in the different figures.

The container or box comprises a bottom 1, to the longitudinal sides of which are integrally connected a front side 2 and a rear side 3, and to the ends or transverse sides of which are connected ends 4, 4.

To the ends of the front side 2 are connected flaps 5, 5, and to the ends of the rear side 3 are connected flaps 6, 6. In assembling the box the sides 2 and 3 and the ends 4, 4 are bent upwardly and the flaps 5 and 6 are folded across the ends of the box, as thus assembled, within and parallel to the ends 4, 4. Flaps 7, 7 are connected to the outer or upper edges of the ends 4, 4 and are adapted to be folded over the flaps 5, 5 and 6, 6 and down into the interior of the box as assembled. Flanges 8, 8 on the flaps 7, 7 contact with the bottom 1 of the box and tend to hold the flaps 7, 7 in their folded-in position. Flap extensions 9, 9 on the flaps 6, 6 extend beyond flaps 7, 7 and are bent at an angle thereto so that the flaps 6, 6 are thus anchored beneath the flaps 7, 7 and thus prevent the side 3 from being pulled out. To strengthen the side 2 and to provide a locking device for the flaps 7, 7 a flap 10 is connected to the outer or upper longitudinal edge of the front side 2 and is folded into the interior of the box. The flap 10 is provided with a flange 11, which engages the bottom 1 of the box to hold the flap in its in-turned position and which rests on the flanges 8, 8 of the flaps 7, 7 and holds them in their folded-over position. When the flap 10 is in its folded-in position the flap extensions 9, 9 extend between the side flap 10 and the front side 2 and are thus concealed and held firmly in position at right angles to the flaps 6, 6.

It will be seen from the above description that the total length of the flap 5 and the extension 9 is greater than the width of the bottom 1 and that the length of the flap 6 is equal to the width of the bottom 1, which brings the line of fold between the flap 6 and the extension 9 at the corner of the box when it is assembled.

The construction just described provides a container which is firmly constructed without the necessity of any slots or interlocking tabs, and provides a rear wall 3 which is very firmly supported and held in position, so that it will not pull out under pressure of a hinging lid or cover. This cover comprises a top 12 which is hingedly connected to the outer or upper longitudinal edge of the rear side 3. Along the longitudinal edge of the cover top 12 is a front 13, which is adapted to provide a cutting edge when the container is used for wax paper rolls. At the ends of the cover top 12 are ends 14, 14. At the ends of the front 13 are flaps 15, 15,

which are in-turned across the ends of the cover top and substantially parallel to the ends 14, 14. Connected to the longitudinal edge of the ends 14, 14 are flaps 16, 16, which are folded over the flaps 15, 15. The flaps 16, 16 are provided with flanges 17, 17, which are adapted to engage the cover top 12 and which slip under and are anchored by tabs 18, 18 formed by a slot in the cover top 12.

The constructions described comprises a one-piece integral box which is simple to construct and assemble and which, when assembled, does not tend to become loosened or pulled apart through constant use such as it would be subjected to if used as a container for rolls of wax paper.

What I claim as my invention is:

1. A container, comprising a bottom; sides; and ends, one of the sides having flaps at its ends folded in across the ends of the container and the other of the sides having a flap at its upper side folded down into the interior of the box to form a double side, and the ends of the container having flaps at their upper edges folded over the said end flaps of the side, the said end flaps of the side each having an extension flap which extends past the folded-in flap of the end, is bent at an angle thereto and extends between the other side of the container and its folded down flap.

2. A container, comprising a bottom; sides; and ends, the sides having flaps at their ends folded-in across the ends of the container, the ends of the container having flaps on their upper edges folded over the said end flaps of the sides, and one of the sides having a flap connected to its upper edge and folded down into the interior of the box to form a double side, the end flaps of the other side of the box each having an extension flap which extends past the folded-in flap of the end, is bent at an angle thereto and extends between the other side and its folded down flap.

3. A container, comprising a bottom; sides; and ends, one of the sides having a cover hingedly connected to its upper edge and both of said sides having flaps connected to their ends folded-in across the ends of the container, and the ends having flaps connected to their upper edges folded over the said end flaps of the side, said end flaps of the side to which the cover is connected each having an extension flap which extends past the folded-in flap of the end and is bent at an angle thereto.

4. A container, comprising a bottom; sides; and ends, one of the sides having a cover hingedly connected to its upper edge and the other side having a flap connected to its upper edge and folded down into the interior of the box to form a double side, both of said sides having flaps at their ends folded-in across the ends of the container, and the ends having flaps at their upper edge folded over the said end flaps of the sides, the end flaps of the side of the box to which the cover is hinged each having an extension flap which extends past the folded-in flap of the end, is bent at an angle thereto and extends between the other side and its folded down flap.

5. A blank for a container, comprising a bottom strip having side strips hingedly connected to either longitudinal edge and end pieces connected to either end; a flap connected to the longitudinal edge of one side strip; a cover hingedly connected to the longitudinal edge of the other side strip; flaps connected to the ends of each side strip, the length of said flaps being substantially equal to the width of the bottom strip; extension flaps connected to the flaps on the ends of the side strips to which the cover is hinged, the total length of the flap and extension being greater than the width of the bottom strip; and flaps connected to the outer or upper edge of the end pieces.

6. A container comprising a bottom; sides; and ends, one of the sides having a cover hingedly connected to its upper edge and flaps connected to its ends folded in across the ends of the container, and the other side having a flap connected to its upper edge and folded down into the interior of the box to form a double side, and the ends having flaps at their upper edge folded over said end flaps of the side to which the cover is connected, the said end flaps having an extension flap which extends past the folded-in flap of an end, is bent at an angle thereto and extends between the other side and its folded down flap.

7. A container, comprising a bottom; sides; and ends, one of the sides having flaps at its ends folded in across the ends of the container, the ends of the container having flaps at their upper edges folded over the said end flaps of the side and provided with flanges which engage the bottom of the container, and the other of the sides having a flap folded down into the interior of the box to form a double side and being provided with a flange which engages the bottom of the container, the corners of this flange overlying the corners of the flanges on folded-in flaps of the ends of the container and providing anchoring means for said flaps, the said end flaps of the side each having an extension which extends between the end and the folded-in end flap, is bent at an angle thereto and extends between the other side of container and its folded-down flap.

GAYLORD C. SNELL.