

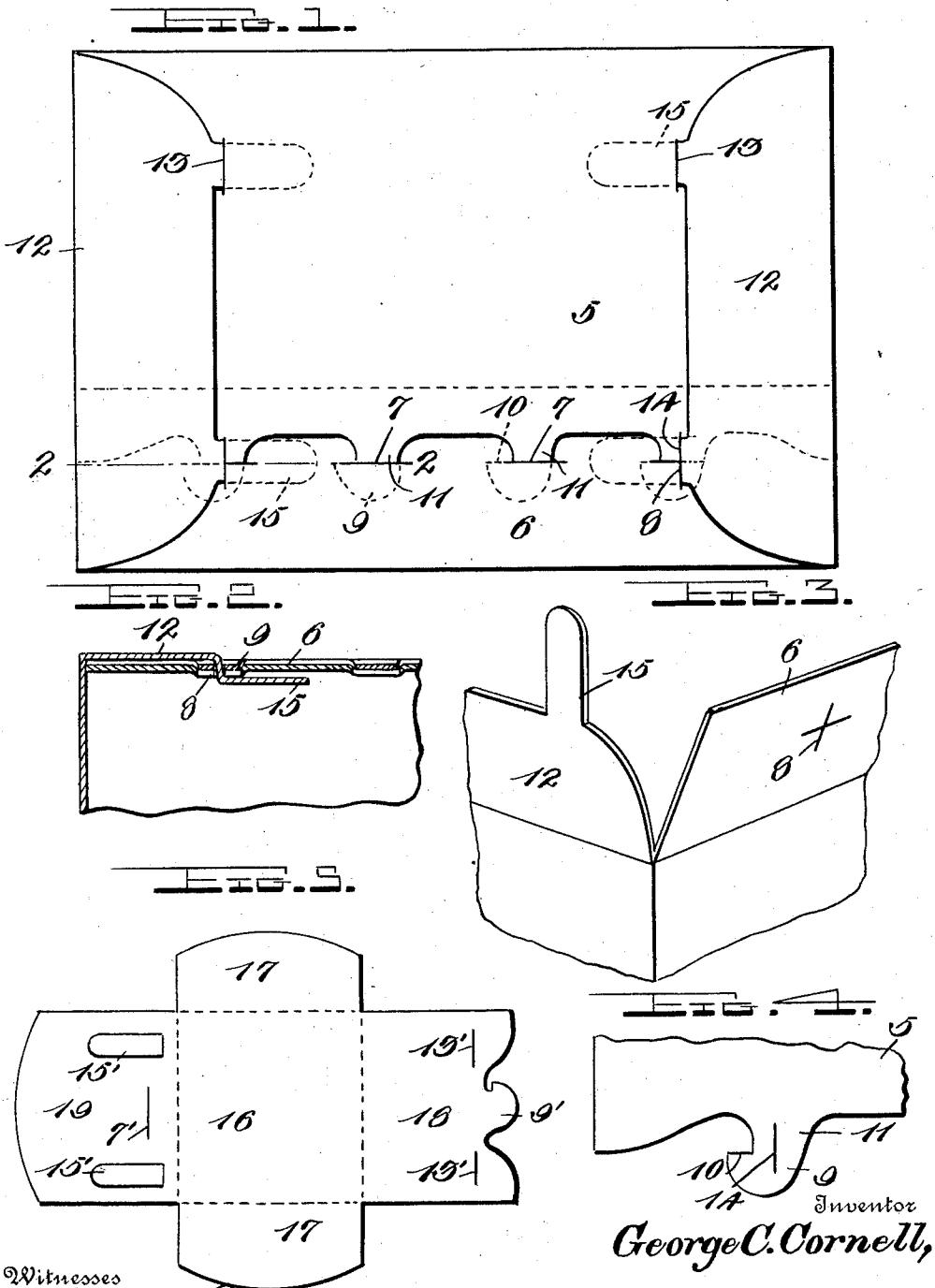
G. C. CORNELL.

BOX FASTENER.

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1,043,072.

Patented Nov. 5, 1912.



Witnesses

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BOX-FASTENER.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, GEORGE C. CORNELL, a citizen of the United States, residing at Canton, in the county of Bradford and State of Pennsylvania, have invented certain new and useful Improvements in Box-Fasteners, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to improvements in box fasteners and more particularly to a fastener which is particularly designed for use in connection with folders, cartons or other paper containers and has for its primary object the provision of means whereby the container may be quickly and securely closed.

Another object of the invention is to provide a paper receptacle or container having one or more closure flaps, said flaps being provided with interlocking means whereby their separation and the opening of the container is effectually prevented.

With the above and other objects in view, the invention consists of the novel features of construction, combination and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a top plan view of a paper receptacle or container illustrating my improved fastener; Fig. 2 is a section taken on the line 2—2 of Fig. 1; Fig. 3 is a detail fragmentary perspective view of one corner of the container; Fig. 4 is a detail fragmentary plan view of one of the side flaps; and Fig. 5 is a view of a slightly modified form of the invention illustrating a folder blank provided with my improved fastener.

The present invention is devised with a view to providing secure fastening means for the closure flaps of paper boxes or receptacles such as that shown and described in my prior application filed June 14th, 1911, Serial Number 633,063, though it will be obvious that the invention is also applicable to folders, commodity cartons and various other paper receptacles well known in the art.

In carrying out the preferred embodiment of my invention, I provide the side walls of the box or receptacle with the closure flaps 5 and 6 respectively. The flap 6 is provided at points intermediate of its ends with the spaced longitudinal slits or incisions 7 and at points adjacent the ends of said flap the same is also provided with the intersecting

longitudinal and transverse slits 8. This closure flap 6 is quite narrow in comparison to the flap 5 as will be seen from reference to Fig. 1 of the drawing and the latter flap 60 at its free edge laps upon the flap 6 when said flaps are folded inwardly. The edge of the flap 5 is provided with a plurality of spaced locking tabs 9 which are of substantially semicircular form at their ends and are slightly offset to form the laterally extending squared shoulders 10. The relatively narrow neck 11 which connects the ends of these tabs with the body of the flap 5 is of slightly less width than the slits or incisions 7 in the flap 6, and the enlarged ends of the tabs are adapted to be inserted through said slits by pressing upon opposite corners of the box body at each end and inserting the shouldered ends 10 through said slits so that the enlarged semicircular ends of the tabs move into and through said slits in both a longitudinal and transverse direction when the box body assumes its natural form upon the release of pressure thereon. 80 It will thus be seen that when the tabs are in their locking positions the shoulders 10 thereon are disposed beyond one end of the slits 7 thus preventing any relative transverse movement of the flaps 5 and 6 which would tend to separate the same. As an additional means of security, I provide the end flaps 12 which are adapted to be folded inwardly upon the end portions of the side flaps 5 and 6. As previously stated the flap 6 is provided at its ends with the intersecting slits 8 and adjacent to the attached edge of the flap 5 the same is provided with the transverse slits 13. The locking tongues 9 on the free edge of the flap 5 which are disposed nearest the ends of said flap are also provided with the transverse slits 14. Upon the edges of the end flaps 12 and adjacent to their ends the tongues 15 are formed and these tongues are adapted to be inserted through the slits 13 in the body of the flap 5 and through the slits 14 in the locking tongues and the transverse slits 8 in the ends of the flap 6 which coincide when the side flaps are folded and secured together. The tongues 15 on the end flaps which extend through the locking tabs 9 and beneath the same prevent undue strain upon the shoulders 10 of the locking tabs by the pressure of the contents of the box or receptacle against the side walls thereof, and greatly strengthen the connection between the side flaps. 110

From the foregoing it will be readily seen that I have provided a fastener for paper receptacles which will securely retain the various flaps in their closed positions. The flaps may be very easily and quickly folded and secured by means of the locking tongues and tabs, the slits 7, 8 and 13 readily receiving the same.

In Fig. 5 of the drawing I have illustrated my invention applied to an advertising folder, said folder consisting of the rectangular body 16 and the closure flaps 17, 18 and 19. The short flaps 17 are adapted to be first folded inwardly upon the body of the folder. The flap 19 is then folded upon the short flaps. This latter flap is provided with a slit 7' to receive the locking tab 9' formed on the end of the flap 18 which is adapted to be folded upon the flap 19. The flap 18 is also provided with spaced slits 13' to receive the tongues 15' which are cut out of the flap 19. After the locking tab 9' has been inserted through the slits 7', the tongues 15' are then disposed through the slits 13' to complete the closure of the folder.

From the foregoing it is thought that the construction and operation of my invention will be fully understood. Paper receptacles which are stamped out in blank form may be provided with my improved fastening means at an insignificant additional expense and while I have only illustrated in the drawing two forms of such receptacles, it will be obvious that the invention may be incorporated in any of the many different forms of the same which are now known in the art with only slight and immaterial modifications without necessarily departing from the spirit or principle of the invention.

Having thus described the invention what is claimed is:—

1. In a fastener of the character described, a paper container having side and end flaps, one of the side flaps being provided at each of its ends with longitudinally and transversely extending intersecting slits, the other of the side flaps having locking tabs formed thereon to be disposed through the longitudinal slits of the first named flap,

said tabs having slits therein to coincide with the transverse slits in said side flap, said end flaps being provided with tongues upon their free edges for insertion through the coinciding slits in said side flap and the locking tabs.

2. In a fastener of the character described, a paper receptacle having side and end flaps, one of said side flaps having spaced longitudinal slits intermediate of its ends, said flap being also provided in each end with intersecting longitudinal and transverse slits, the other of said side flaps having a plurality of locking tabs formed upon its free edge for insertion through the longitudinal slits of the first named flap, the locking tabs adjacent the ends of said flap being provided with transverse slits to coincide with the transverse slits in said first named side flaps, said latter flap being also provided with transverse slits at each end and adjacent to its attached edge, said end flaps having tongues projecting from their free edges and adjacent to each of their ends, the respective tongues of said end flaps being adapted for insertion through said last named slits and through the coinciding slits of said locking tabs and the first named side flap.

3. In a fastener of the character described, a paper container having side and end flaps, one of the side flaps being provided with spaced longitudinal slits and also having transverse slits adjacent to the ends of said flap, the other of said side flaps being provided upon its free edge with a series of locking tabs to be disposed through the longitudinal slits of the first named flap, the end tabs of said latter flap being also provided with slits to coincide with the transverse slits in said side flaps, said end flaps having tongues upon their edges for insertion through the coinciding slots in said side flap and the locking tabs.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

GEORGE C. CORNELL.

Witnesses:

E. S. LINDLEY,
F. E. ANDREWS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."