W. M. BROOKS.

BOX CATCH.

APPLICATION FILED JUNE 8, 1910.

967,605. Patented Aug. 16, 1910.

Fig. 1.

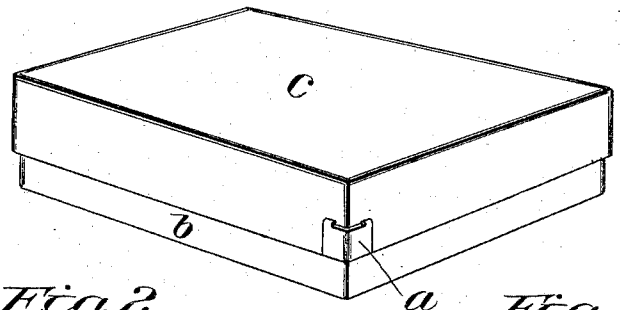


Fig. 2.

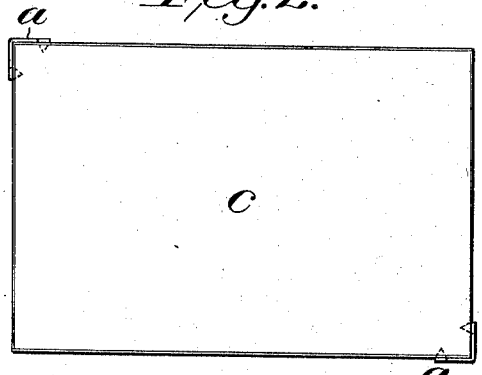


Fig. 3.

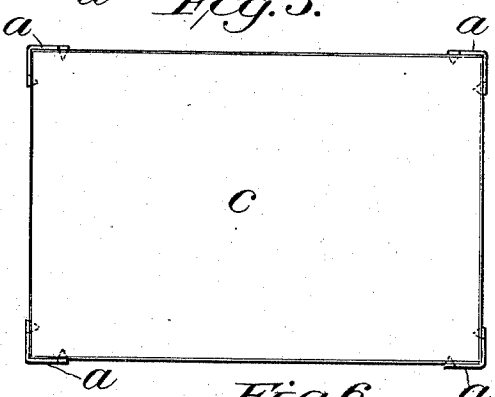


Fig. 4.

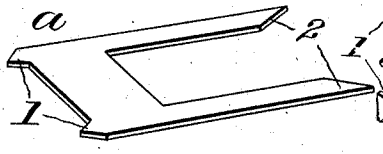


Fig. 5.

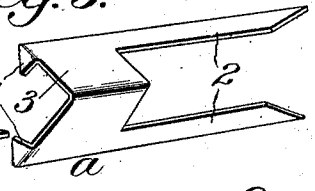


Fig. 6.

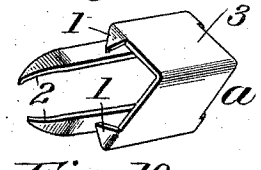


Fig. 7.

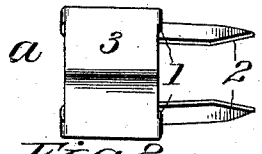


Fig. 8.

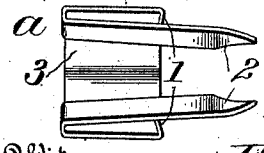


Fig. 9.

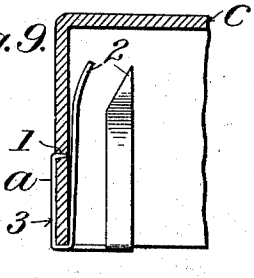


Fig. 10.

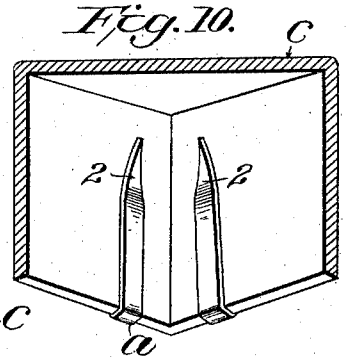
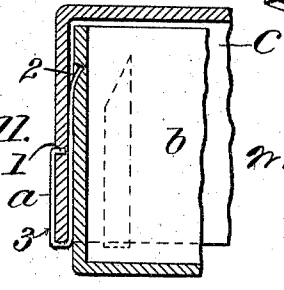


Fig. 11.



Witnesses

C. H. Walker

Wm. Geo. Lamb.

Inventor

Wm. Jr. Moody Brooks

by E. E. Lewis,

Attorney

THE NORRIS PETERS CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

WINFRED MUDGE BROOKS, OF EAST ORANGE, NEW JERSEY, ASSIGNOR TO E. J. BROOKS & CO., OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

BOX-CATCH.

967,605. Specification of Letters Patent. Patented Aug. 16, 1910.

Application filed June 8, 1910. Serial No. 565,688.

To all whom it may concern:

Be it known that I, WINFRED MUDGE BROOKS, a citizen of the United States of America, and a resident of East Orange, in the State of New Jersey, have invented a new and useful Improvement in Box-Catches, of which the following is a specification.

This invention relates to fastenings or securing devices for paper boxes such as are extensively used for shipping or delivering dry goods, hardware and like articles of merchandise, and are usually wrapped and tied with string at considerable cost in the aggregate.

The present invention consists in inexpensive metallic "catches" for such boxes, as hereinafter claimed, adapting the boxes to be securely self fastened, and dispensing with wrappings and string.

The improved catches utilize the relative rigidity of the corners of rectangular paper boxes, as points for the most effective location of such catches, and serve also to reinforce the corners of the box cover, so as to keep them from opening under strain.

Other objects of the invention will be set forth in the general description which follows:

A sheet of drawings accompanies this specification, as part thereof.

Figure 1 is a perspective view of a paper box provided with improved box catches; Fig. 2 is a top view of the same; Fig. 3 is a top view of a box having a catch at each corner; Figs. 4, 5 and 6 are perspective views illustrating the method of making the catches; Figs. 7 and 8 are back and front views of one of the catches detached; Figs. 9 and 10 are respectively sectional and perspective views of one corner of the box cover, showing one of the catches as preliminarily attached; and Fig. 11 represents a section through the fastened box corresponding with Fig. 9.

Like reference characters refer to like parts in all the figures.

The improved box catch, *a* is constructed of sufficiently resilient sheet metal, and is preliminarily attached to the flanged cover, *c*, of a paper box, which may otherwise be of ordinary or improved construction and of any suitable or preferred size and shape.

The improved box catch is constructed with sharp prongs, 1 and 2, integral with an interposed body, 3, and designed and adapted respectively to preliminarily attach the catch as in Figs. 9 and 10, and to securely fasten the box as in Fig. 11.

Each of the improved box catches *a*, one of which is shown, detached, by Figs. 6, 7 and 8, is adapted to be produced from the flat sheet by the continuous operation of a suitable machine in the manner illustrated by Figs. 4, 5 and 6; that is to say, the metal is first blanked out as illustrated by Fig. 4, then bent as regards its body 3 and attaching prongs, 1, as represented by Fig. 5, and finally bent as to its fastening prongs, 2, as illustrated by Fig. 6, and discharged in this shape ready for use, or sale in quantity to box makers or users.

The attaching prongs 1 are short and bent at substantially right angles to the catch body, 3, so as to be readily pressed into the box board by the fingers or a suitable tool in attaching the catch. The fastening prongs 2 are relatively long, and are rebent and curved by said bending operation as best seen in Fig. 8, and their sharp points are engaged with the opposing surface by the resiliency of the metal, so that the box is self fastened when the cover is pressed into place. The catch body 3 is adapted to embrace one corner of the flange of a rectangular box cover, and the catches are attached to diagonally opposite corners as in Figs. 1 and 2, or preferably to all the corners of the box cover as represented by Fig. 3. The long fastening catches 2 extend around the edges of the cover and interact with the attaching catches 1 as shown in Fig. 9, in addition to performing their main function as in Fig. 11.

The box catches can be readily unfastened at will by means of a knife blade or the like inserted edgewise inside the cover flange.

It is intended to make the catches in three sizes for large, small and medium-sized boxes.

Other modifications will suggest themselves to those skilled in the art.

Having thus described said improvement, I claim as my invention and desire to patent under this specification:

1. A box catch, for paper boxes, constructed of sheet metal with a body having a rectangular bend and adapted to embrace and reinforce one corner of a flanged box cover, a pair of short attaching prongs

adapted to attach the catch to the box cover on both sides of the angle of such corner, and a pair of long sharp-pointed and rebent fastening prongs adapted to interact with opposing surfaces of the box body.

2. The combination with the flanged cover and body of a rectangular paper box of diagonally opposed box catches each constructed of resilient sheet metal with a body having a rectangular bend and adapted to embrace and reinforce one corner of the cover flange, a pair of short sharp-pointed attaching prongs adapted to be pressed into said flange on both sides of the angle of such corner and a pair of long sharp-pointed and rebent fastening prongs adapted to interact by their own resiliency with opposing surfaces of the box body adjacent to its corresponding corner, said prongs being integral with the body of each catch, substantially as hereinbefore specified.

WINFRED MUDGE BROOKS.

Witnesses:
CHARLES C. LURICH,
DONALD LIVINGSTON.