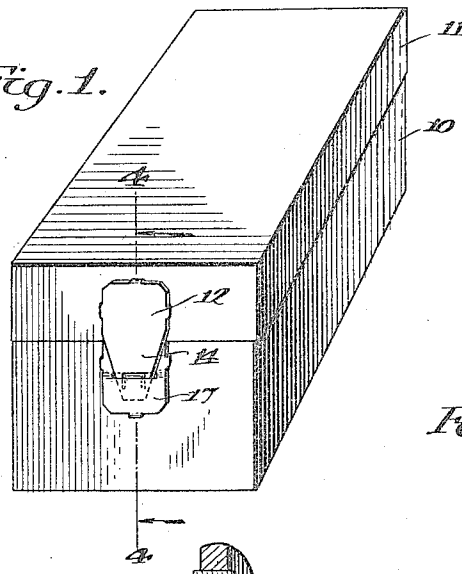
E. MONNIER.

BOX FASTENER.

APPLICATION FILED JUNE 24, 1916.

1,206,458. Patented Nov. 28, 1916.

Fig. 1.



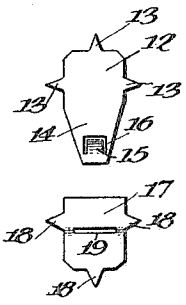


Fig. 2.

Fig. 3.

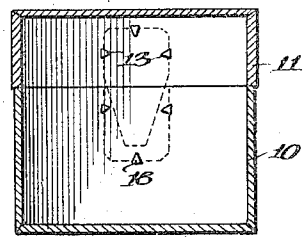


Fig. 5.

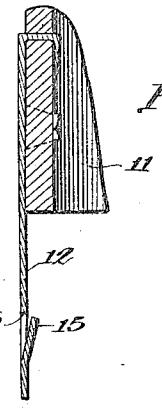


Fig. 7.

Fig. 4.

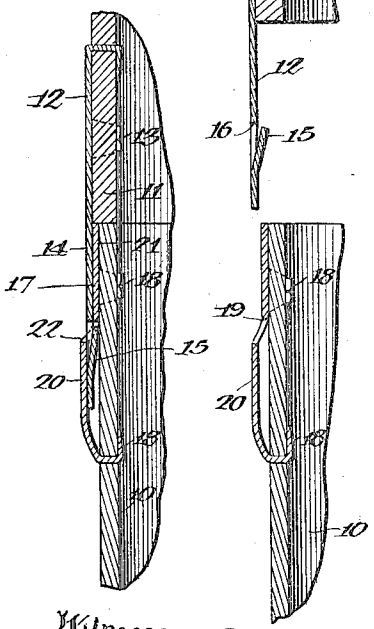


Fig. 8.

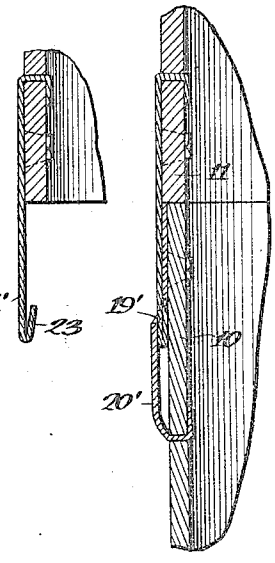
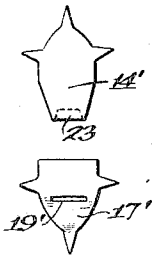


Fig. 6.



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BOX-FASTENER.

1,206,458. Specification of Letters Patent. Patented Nov. 28, 1916.

Application filed June 24, 1916. Serial No. 105,591.

To all whom it may concern:

Be it known that I, EDMOND MONNIER, a subject of Switzerland, and a resident of New York, county of New York, and State of New York, have invented certain new and useful Improvements in Box-Fasteners, of which the following is a specification.

My invention relates to box fasteners, and is designed to provide a simple device by which a box lid may be accurately positioned on the box body and held securely closed.

Among the objects of the invention are the provision of a metallic fastener for the purpose referred to, which is simple and readily constructed, is easily applied, remains securely in place when applied and which will assist in accurately positioning the box lid in position, and will automatically and securely hold the box lid in place without danger of opening unless considerable force is applied voluntarily and for the express purpose of effecting the opening of the box, and with the foregoing and related objects in view, my invention consists in the parts, improvements and combinations herein set forth and claimed.

In the accompanying drawing, forming a part of this specification, I have illustrated two forms of device in which my invention may be embodied. It is to be understood, however, that I am not limited by the precise forms illustrated, but that I may depart from such particular forms in various ways within the scope of the appended claims and without departing from or sacrificing any of the advantages of my invention.

In said drawing, Figure 1 is a perspective view of a box and its cover with a pair of fasteners embodying my invention secured to an end thereof. Fig. 2 is a face view of the fasteners shown in Fig. 1 separated and prior to securing the same in place on the box and its cover. Fig. 3 is a transverse cross-sectional view through the box of Fig. 1 and showing the manner of attaching the fastener. Fig. 4 is a fragmentary vertical cross-sectional view taken on the line 4—4, Fig. 1, and showing the parts secured in cooperative relation. Fig. 5 is a view similar to Fig. 4 but showing the parts separated. Fig. 6 is a face view showing the separated parts of a modified form of fastener in accordance with the invention. Fig. 7 is a cross-sectional view similar to Fig. 4 but showing the parts of a fastener in accordance with Fig. 6 in their coöperative relation, and Fig. 8 is a fragmentary cross-sectional view similar to Fig. 7 but showing only the fastener for the lid.

The box body is indicated at 10 and the top or cover at 11. In the form of box shown the lid or top 11 projects slightly beyond the box body 10.

Preferably fasteners in accordance with my invention are provided at each end of the box body and cover, though a greater number may be used and they may be differently placed than at each end if found desirable. The pair of fasteners shown in Figs. 1 to 5, inclusive, comprises a tongue and catch member 12 which is adapted to be secured to the lid as by the prongs 13, 13 which may be inserted through suitable openings and turned over, as shown in Fig. 3. Other modes of fastening may, of course, be resorted to. The tongue of the member 12 is shown at 14 and the catch of said member 12 is shown at 15 and comprises an upwardly extending portion preferably struck inwardly somewhat, as shown in Fig. 5, and having a slight clearance all around between it and the margin 16 of the struck out portion or opening. The box body has secured thereto the tongue-receiving and catch-holding member 17 which, as in the case of the member 12, may be secured by prongs 18 inserted through openings and turned over, or by equivalent holding means, and is provided with a preferably transverse slot 19 for receiving the projecting tongue 14. Where the fasteners are used on boxes having the lid projecting beyond the box body, as in the case of the box shown in the drawing, the lower portion 20 of the body fastener 17 is extended outwardly beyond the upper portion 21 thereof, thus providing an off-set 22 for the lower wall of the slot 19 so that the end of the tongue 14 may readily enter said slot 19 as the lid is put in place by direct or substantially direct downward movement, the tongues 14 serving as a guide for correctly positioning the lid in place. When the tongue 14 has entered the slot 19 to a suitable extent and the lid is in its proper place, the upwardly extending catch 15 springing inwardly engages with the lower edge of the portion 21 of the body catch and serves to hold the lid securely against removal. As is evident from the

showing of Figs. 4 and 5, the catch 15 is compressed somewhat behind the portion 20 of the body fastener, and this serves to give a secure holding effect of the parts in their coöperative holding position. To remove the box lid when secured in place as by two or more of these fasteners, a sharp pointed tool or other suitable means must be inserted to pry the parts loose and they must be voluntarily and forcibly disengaged. When disengaged, however, the lid may readily be removed and used again and again if needed, or the box may be discarded, if desired, after a single use.

In the construction shown in Figs. 6, 7 and 8, the tongue 14′ of the lid fastener, instead of having a struck out catch portion, is provided with an upwardly extending catch member 23 provided by turning over the end or point of the tongue 14′. In operation the two modifications shown are substantially identical, the tongue 14′ of the body fastener being introduced into the slot 19′ of the coöperating member 17′ in substantially the same manner that the tongue 14 is introduced into the slot 19, and the reception of the tongue 14′ and spring catch 23 in the narrow space between the wall 20′ of the body fastener and the box body 10 serving to keep the parts tightly and snugly in their correct coöperative position until they are voluntarily and forcibly disengaged.

As already stated, the forms shown are for illustration only and for affording a clear understanding of my invention, and I am not to be confined to the specific structures except as set forth in my claims.

Having thus described my invention, I claim:

1. A box fastener for boxes having the cover projecting beyond the box body and comprising a fastener member on the lid with a projecting tongue projecting below and in line with the lid, a spring catch projecting inwardly from said tongue, and a coöperating fastener member on the box body having an upwardly opening slot to receive said tongue and adapted to hold said spring catch in compression between the fastener member and the box body.

2. A box fastener comprising a plate secured to the box body and provided with a transverse slot therein opening upwardly, the material of the plate below the slot being projected outwardly, and, a spring catch member secured to the lid having a tongue with an inwardly upturned lip, said spring catch member being adapted to enter into said slot and be received in said outward projecting part and to hold said spring catch in compression between said member and the box body, the said upturned lip of the tongue engaging with the plate above the slot, substantially as described.

In testimony that I claim the foregoing, I hereto set my hand, this 21st day of June, 1916.

ED. MONNIER.

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