J. HERBOLDT.

MEDICINE BOX.

APPLICATION FILED DEC. 1, 1913.

1,138,562. Patented May 4, 1915.

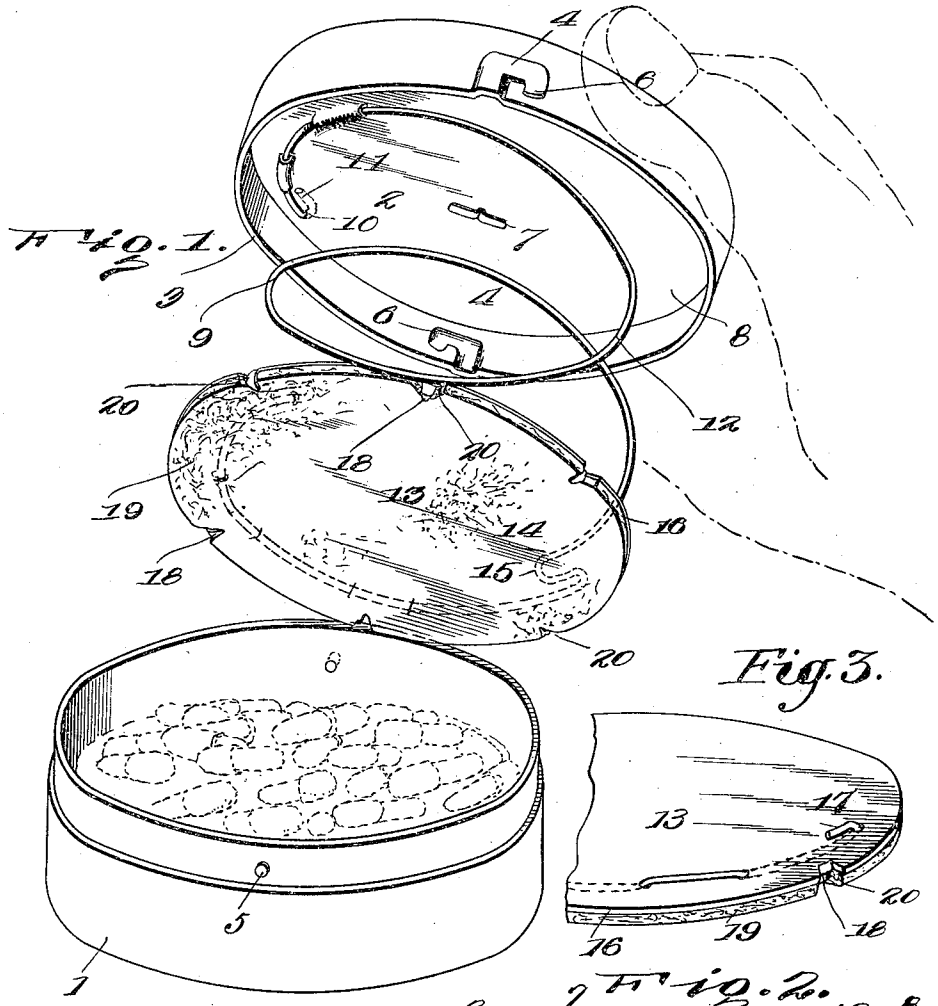


Fig. 1.

Fig. 3.

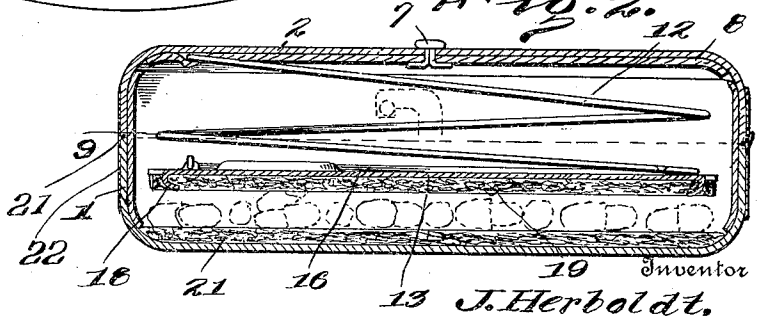


Fig. 2.

Witnesses

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MEDICINE-BOX.

1,138,562. Specification of Letters Patent. Patented May 4, 1915.

Application filed December 1, 1913. Serial No. 804,080.

To all whom it may concern:

Be it known that I, JOHN HERBOLDT, citizen of the United States, residing at Woodside, in the county of Lewis and State of Idaho, have invented certain new and useful Improvements in Medicine-Boxes, of which the following is a specification.

This invention relates to containers and more particularly to the class of such devices adapted to receive medicines, drugs, powders, capsules, and the like.

The invention has for its primary object to provide a box or carton which will be not only attractive in appearance and therefore desirable as a permanent container, but which will provide against damage to the contents thereof, in the event of mailing or handling, the invention being particularly adapted as a container for mailing purposes.

A further object of the invention is to provide a container so constructed as to normally hold the contents thereof firmly in position within the box thereby avoiding any injury or loss which might be occasioned by the shaking or mixing of said contents, as in the case of medicinal powders.

A further object of the invention is to provide a container wherein the contents thereof will be held in position under all conditions and without regard to the quantity or bulk of such contents.

The invention has as a further object to provide a container wherein the means provided for holding the contents thereof in position within the box may be inserted and withdrawn therefrom as the lid of the box is applied and removed.

A further object of the invention is to provide a container wherein the parts thereof may be readily locked in assembled relation as the lid thereof is applied. And a still further object of the invention is to generally improve the construction and increase the efficiency of devices of the above described character.

For a full understanding of the invention reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a perspective view of my improved box showing the lid detached; Fig. 2 is a cross sectional view showing the parts in assembled operative relation; and Fig. 3 is a fragmentary detail view showing a portion of the follower employed and the manner of connecting said follower to the spring upon which it is mounted.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings, by the same reference characters.

Referring to the drawing the numeral 1 designates the body portion and 2 the lid of my improved container which may be made of pasteboard or sheet metal, as desired, and which is preferably cylindrical in form, the question of dimension being entirely optional.

The lid 2 is designed to fit snugly over the body portion 1 and has pressed out from the inner face of the rim 3 thereof oppositely disposed bayonet slots 4 designed to engage lugs 5 formed in the body portion thereof. A retaining notch 6 is provided at the outer extremity and in the lower edge of each of the longitudinally extending portion of said slots.

Secured within the lid 2 in any suitable manner, as by a staple 7 is a supplemental head portion 8. Such head portion is of a diameter to fit closely within the rim 3 of the lid and is designed to lie flat against or conform to the top thereof.

Threaded one or more times through the supplemental head portion 8 near its periphery and conforming thereto is one end of a coil spring 9. The extremity of said spring is returned to form a laterally disposed loop or hook 10 the terminal 11 of which lies against the upper face of the head portion 8 and serves to effectually secure the spring thereto.

The longitudinal axis of the spring 9 is designed to aline with the center of the lid 2, the convolutions 12 of the spring being of a circumference to be received within the rim 3 thereof and compressed therein. The opposite end of the spring 9 is designed to engage a follower or plunger 13. The spring is first returned upon itself near this end to form a laterally disposed and outwardly extending loop 14 the bight portion

15 of which is designed to lie against the upper face of the plunger 13 and form a bearing surface for said spring at the point it enters the plunger. The wire is bent downwardly at the outer extremity of the loop 14 and is preferably threaded one or more times through the head portion 16 of the plunger near the periphery thereof and conforming thereto, as shown, the extreme end 17 of the spring being brought up through such head portion and returned upon itself to lie flat against the upper face thereof.

It will be observed that the terminal 17 of the spring is secured in the head portion 16 of the plunger at a point approximately diametrically opposite the point where the spring enters said head portion thus tending to equalize the downward tension exerted by the spring upon the plunger. It will also be observed that the spring 9 enters the plunger at a point substantially diametrically opposite the point where it leaves the supplemental head portion 8, thus further tending to equalize the tension between the plunger and said head portion.

The plunger 13 is arranged concentric with relation to the longitudinal axis of the spring 9 and, as stated, includes a preferably cylindrical head portion 16 which may be formed of metal or other suitable material. Said plunger may be varied in size as well as in shape, of course, according to the size and shape of box employed but should be adapted for free movement within the body portion 1 of the box.

Secured to the outer face of the plunger 13 by a plurality of integrally formed tongues 18 is a suitable padding 19, such as felt or like material. The head portion 16 is provided at spaced intervals throughout its periphery with a series of outwardly facing V-shaped incisions 20, the portion lying intermediate such incisions being bent downwardly to form the tongues 18 which are returned against the outer face of the head portion 16 to clamp the padding 19.

The padding 19 is designed to protect the contents of the box from any injury which might otherwise be caused by the downward pressure of the plunger 13 and as a further precautionary measure a padding 21 such as raw cotton may be provided at the bottom of the body portion of the box. Owing to the tendency of the spring 9 to force the lid away from the body portion the lugs 5 will be held in engagement with the retaining notches 6 thereby serving to lock the parts together. To disengage the lid it is only necessary to press downwardly thereon with sufficient force to free the lugs 5 when the lid may be given a slight twist or turn and removed. Preferably, I prefer to form the lid of my improved container of metal as also the inner collar of the body portion, the base being of pasteboard, but this construction can be varied, of course, as found desirable.

From the above description, it will be apparent that as the lid 2 of the box is applied or removed, the plunger 13 being attached thereto, will be inserted and withdrawn from the body portion thereof and that when in assembled relation the plunger will at all times exert a downward pressure upon the contents of the box to hold said contents in position.

If desired a cutting thread or cord 21 may be positioned between the meeting edges of the lid and base as shown in Fig. 2 of the drawings, one extremity of said thread being free and having its opposite end secured to the box, whereby the free end may be readily grasped and the thread operated to sever the overlapping box sealing strip conventionally shown at 22.

Having thus described the invention, what is claimed as new is:—

1. A box including a body portion, a lid, locking means therefor, a supplemental head secured within the lid, a coil spring having one extremity threaded through said supplemental head near the periphery thereof and conforming thereto, a hook formed at the extremity of said spring and engaging said head, and a plunger carried at the opposite end of said spring and adapted to be received within the body portion of the box.

2. A box including a body portion, a lid, locking means therefor, a spring pressed plunger carried within the box, said plunger including a head portion having in its periphery a series of spaced outwardly facing V-shaped incisions defining intermediate tongues, and a padding carried by said plunger and retained in position thereon by engagement with said tongues.

3. A box including a body portion, a lid, locking means therefor, a spring pressed plunger carried within the box, said plunger including a head portion, a padding carried by the plunger, and securing tongues formed from the head portion and engaging the padding.

4. A box including a body portion, a lid, locking means therefor, a spring secured within the lid, a plunger carried at the outer extremity of said spring and adapted to be received within the body portion of the box, and a loop formed in said spring at the point of entering said plunger, the bight portion of said loop lying against the upper face thereof and forming a bearing surface for the spring.

5. A box including a body portion, a lid, locking means therefor, a plunger, a coil spring arranged within the lid and having its outer extremity threaded into the plunger near the periphery thereof and conforming thereto, said plunger being adapted to be

received within the body portion of the box, and a hook formed at the terminal of the spring for engagement with the plunger, said hook being positioned substantially diametrically opposite the point where the spring enters said plunger.

6. A box including a body portion having a padding therein, a lid detachably secured to the body portion of the box, and a spring pressed plunger carried by the lid, said plunger being receivable within the body portion of the box and carrying a padding confronting and normally held against said first mentioned padding.

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

JOHN HERBOLDT. [L. S.]

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