Nov. 4, 1924. 1,513,860

F. REUTTER

HINGE STRUCTURE

Filed Dec. 26, 1922

Fig. 1.

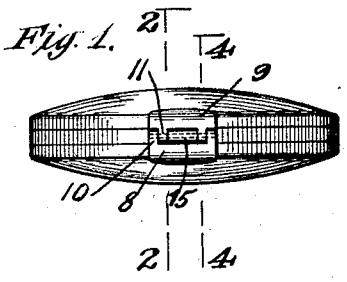


Fig. 2

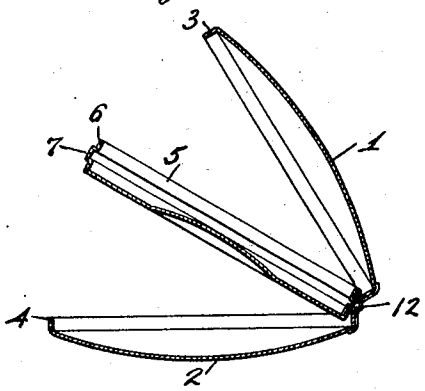


Fig. 3.

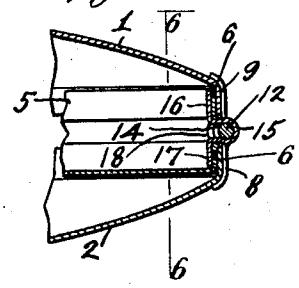


Fig. 4.

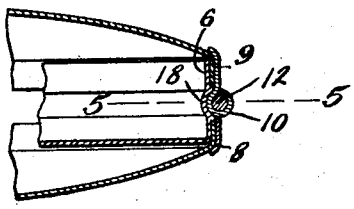


Fig. 6.

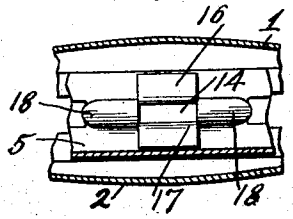
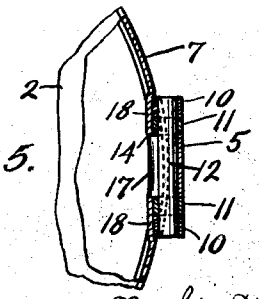


Fig. 5.



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By his Attorneys

Philipp, Lawyer, Rice & Kenyon

Patented Nov. 4, 1924.

1,513,860

UNITED STATES PATENT OFFICE.

FREDERICK REUTTER, OF WATERBURY, CONNECTICUT, ASSIGNOR TO SCOVILL MANUFACTURING COMPANY, OF WATERBURY, CONNECTICUT, A CORPORATION OF CONNECTICUT.

HINGE STRUCTURE.

Application filed December 26, 1922. Serial No. 609,147.

To all whom it may concern:

Be it known that I, FREDERICK REUTTER, a citizen of the United States, residing at Waterbury, county of New Haven, and State of Connecticut, have invented certain new and useful Improvements in Hinge Structures, fully described and represented in the following specification and the accompanying drawings, forming a part of the same.

This invention relates to certain improvements in small boxes of that class commonly known as vanity boxes or cases, and the invention particularly relates to an improved hinge structure for such boxes.

These vanity boxes or cases are largely used for carrying rouge, powder and like toilet accessories, and are usually carried in a handbag, pocketbook or the like, or in a pocket of some part of the user's wearing apparel.

In certain types of these boxes the box is made with a cover, a bottom, and an intervening partition member, these parts being pivotally associated by a hinge structure. It is desirable in this class of box that the hinge be formed so that it will be inconspicuous and will not catch on articles carried in a handbag, pocketbook, or in the pocket of the user, while at the same time being strong enough to hold the parts together and produce a firm, rigid structure, not liable to injury from ordinary use.

It is the especial object of the present invention to provide an improved hinge structure in which the three parts of a three-part box may be pivotally associated on the same hinge, so as to make a simple and economical structure, and in which the hinge and its association with the parts it unites are so constructed as to be inconspicuous and not liable to catch on other articles with which the box may be associated while being carried about.

With these and other objects not specifically referred to, the invention consists in certain novel parts, arrangements and combinations, which will be described in connection with the accompanying drawings, and the novel features thereof pointed out in the claims hereunto appended.

In these drawings—

Figure 1 is a side view of a three-part box, the members of which are pivotally associated by the improved hinge, the box being shown closed.

Figure 2 is a sectional view taken on line 2—2 of Fig. 1, the box being shown open.

Figure 3 is a detail sectional view on an enlarged scale of the hinge structure, the parts being shown in closed position.

Figure 4 is a similar view, the section being taken on line 4—4 of Fig. 1.

Figure 5 is an enlarged sectional plan view of the structure shown in Fig. 4, the section being taken on line 5—5 thereof.

Figure 6 is a sectional view on an enlarged scale the view being taken on line 6—6 of Fig. 3.

Referring now to these drawings; the improved box includes a cover 1 and a bottom 2, the cover and bottom being provided with peripheral flanges 3, 4. Intermediate the bottom and the cover is a partition member 5, this partition member having a peripheral flange 6 inset at the top and bottom to form a rib 7 against which the flanges 3 and 4 of the cover and the bottom abut when the box is closed.

These parts are pivotally associated so that the bottom and cover may be swung independently of the partition member 5, or the latter may be swung either with or independently of either the cover or the bottom members, and the present invention contemplates an improved hinge construction whereby this may be effected.

While the specific character of this hinge may be somewhat varied, in constructions embodying the invention in its best form, the hinge will be of such character that but a single pin is required to connect the parts, the three members swinging on this hinge. As illustrated, there are provided a pair of straps 8, 9. These straps have their edges slit and turned into form the knuckle loops, the strap 8 having the knuckle loops 10 and the strap 9 the knuckle loops 11, these loops interengaging and being pivotally associated by a pin 12 driven through the loops. The center partition member 5 is pivotally associated with the top and bottom members, and in the best constructions the partition member carries a connection which rocks on the pin between the knuckle loops before referred to.

In the particular construction illustrated, the flange 6, at the back of the box, is slit, as indicated at 14 in Figs. 5 and 6, and through this slit is passed the loop end of a loop member 15. The two ends 16, 17 of the loop member are oppositely bent and after the loop member has been positioned with the loop extending through the slit, the bent ends engage against the wall of the flange 6 on each side of the slit, as clearly shown in Fig. 6. To provide space for the pin the inside of the flange 6 is formed with inset portions 18, one of these being provided on each side of the slit and permitting the pin to pass through the loop, thereby providing a pivotal connection for the three parts on the same hinge, a neat and attractive box of simple and economical construction being provided by the improved structure.

While the invention has been shown and described in what is believed to be its best form, it will be understood that various changes and variations may be made in the particular structure disclosed without departing from the invention as defined in the claims appended hereto.

What I claim is:

1. A box for toilet accessories and the like, a bottom member, a cover, and an intermediate partition, and a hinge pivotally associating these members, said hinge including a pair of straps secured respectively to the cover and the bottom, the edges of the straps being turned to form interengaging knuckle loops, a pin passing through these loops, and a loop member carried on the partition member but independent thereof and having a loop end projecting through the partition and in line with the knuckle loops through which the pin also passes.

2. A box for toilet accessories and the like, a bottom member, a cover, and an intermediate partition having a flange, and a hinge for pivotally associating these members, said hinge including a pair of straps secured respectively to the cover and the bottom, the edges of the straps being turned to form knuckle loops, a slit in the partition flange, a loop member having a loop end extending through the slit and free ends bent against the inside wall of the flange, and a pin passing through the loops.

3. A box for toilet accessories and the like, a bottom member, a cover, and an intermediate partition having a flange, a hinge connecting the cover and bottom including plates formed with loops through which a pin passes, a loop member connected to the flange but independent thereof and having a loop end extending beyond the flange through which the pin passes, and inset portions on the flange on each side of the loop member to permit the passage of the pin therethrough.

4. A box for toilet accessories and the like, a bottom member, a cover, and an intermediate partition having a flange, a hinge connecting the cover and bottom including plates having loops, a slit in the flange, a loop member having a loop and extending through the slit and oppositely turned inner ends engaging the wall of the flange above and below the slit, and a pin passing through the loops.

In testimony whereof, I have hereunto set my hand.

FREDERICK REUTTER.