March 23, 1937. A. HORNEMANN 2,074,790

LIDDED BOX OR RECEPTACLE

Filed Sept. 2, 1936

Fig. 1.

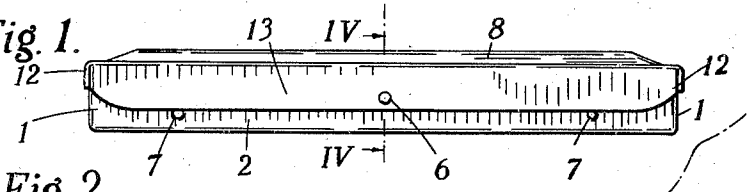


Fig. 2.

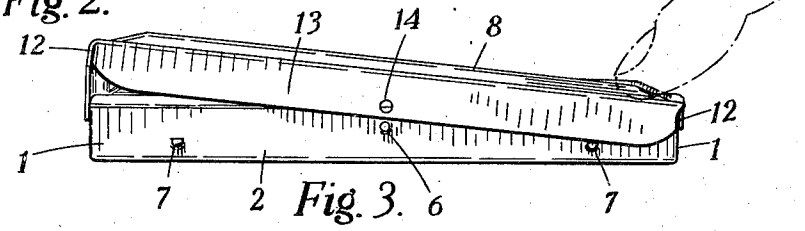


Fig. 3.

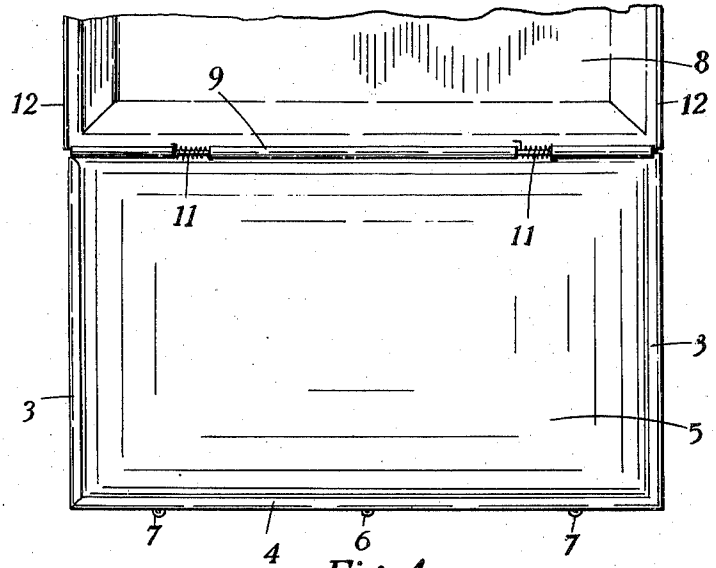


Fig. 4.

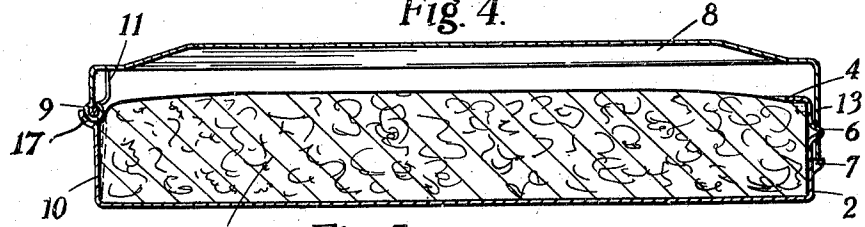
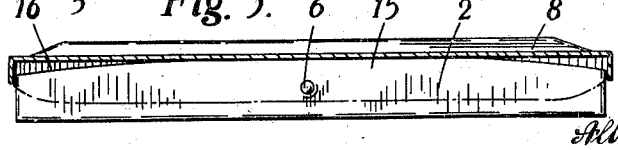


Fig. 5.



INVENTOR
Albert Hornemann.
BY
A. Knight Broad
ATTORNEY

Patented Mar. 23, 1937 2,074,790

UNITED STATES PATENT OFFICE

2,074,790

LIDDED BOX OR RECEPTACLE

Albert Hornemann, London, England, assignor to Printator Limited, London, England

Application September 2, 1936, Serial No. 99,124
In Great Britain September 7, 1935

4 Claims. (Cl. 220—35)

This invention relates to lidded boxes or receptacles and more particularly to those having hinged lids, and while the invention will be described with particular reference to boxes for containing the inking pads for india-rubber stamps, it will be obvious that it may be applied to boxes or receptacles for many other purposes; for example, desk and like cigarette boxes.

The object of the invention is to provide a box, the lid or cover of which may be opened by a slight tap or pressure of the finger on the lid or cover itself without the necessity of applying or using any means for holding the body of the box while the lid is being raised, and to this end according to this invention the front wall of the box is furnished with a centrally disposed projection and the front wall of the lid or cover is furnished with a centrally disposed aperture or catch adapted to engage with said projection; the front wall of the box is further provided with means for limiting the extent of closure and on which the front part of the lid is adapted to have a slight rocking movement when depressed at one of its front corners or extreme ends, which rocking movement serves to effect the disengagement of the catch so that the lid is free to open automatically under the action of a suitably disposed spring.

In the accompanying drawing which illustrates this invention:—

Figure 1 is a front elevation of a box containing an inking pad in the closed position;

Figure 2 is a similar view to Figure 1 showing the method of opening the box;

Figure 3 is a plan of the box in the open position with part of the lid broken away;

Figure 4 is a vertical section on the line IV—IV of Figure 1, and,

Figure 5 is a front elevation partly in section of a modification.

The side walls 1 and the front wall 2 of the box are all of the same height and are provided on their upper edges with inwardly directed flanges 3 and 4 which retain the inking pad 5 in position within the box. The front wall 2 a short distance from its upper edge is furnished with a centrally disposed projection 6 and two further projections or stops 7, hereafter referred to as the releasing stops, are furnished one on each side of and somewhat below the level of the centrally disposed projection 6. The lid or cover 8 is attached by means of a hinge pin 9 to the rear wall 10 of the box, said hinge pin 9 being furnished with springs 11 which tend to retain the lid 8 in its fully open position. The lid 8 is furnished with side walls 12 and a front wall 13 which, when the lid 8 is closed, overlap the side and front walls 1 and 2 of the box and the front wall 13 of the lid 8 is furnished with a centrally disposed aperture or catch 14 with which the projection 6 on the box is adapted to engage.

In use, the lid 8 is maintained in the closed position by the projection 6 on the box entering and engaging the aperture 14 in the front wall 13 of the lid 8. When it is desired to open the box, pressure is applied to the top of the lid 8 adjacent one end or front corner, as shown in Figure 2, thus bringing the lower edge of the front wall 13 into contact with the releasing stop 7 adjacent that end; this action causes the lid 8 to rock and effects the disengagement of the projection 6 from the aperture 14, and when the hand is removed from the lid 8 it automatically springs into the open position under the action of the spring 9.

According to a modified form of the invention illustrated in Figure 5, the releasing stop or stops 7 are replaced by an upwardly disposed extension 15 of the front wall 2 of the box (hereafter referred to as the releasing extension) the top edge 16 of said releasing extension being cambered so that the depth is less at the ends than at the centre.

In use, the lid or cover is maintained in the closed position by the projection 6 on the box as in the embodiment first described, and when it is desired to open the box a tap or light pressure on one of the front corners of the lid causes said lid to rock on the cambered edge 16 of the releasing extension 15 and thereby effects the disengagement of the projection from the lid.

The position of the releasing stop or stops 7 and the height of the curved releasing extension 15 when applied to boxes for containing inking pads, is such that when depressed to the maximum extent the inner face of the lid or cover will not make contact with the face of the inking pad.

In order to prevent the lid or cover flying back flat against the desk or other supporting surface, the upper edge of the rear wall 10 where it is usually cut away to form the hinge, is bent round the hinge to form a stop 17.

What I claim is:—

1. A lidded box comprising a box portion and a lid, a hinge connecting said box and lid together along the back edge, springs on said hinge tending to maintain the lid in the open position, a centrally disposed projection on the front wall of

the box, a centrally disposed catch on the front wall of the lid adapted to coact with said projection to maintain said lid in the closed position and means on the front wall of the box for limiting the extent of closure and on which the front part of the lid has a slight rocking movement when depressed at one of its front corners, which rocking movement serves to effect the disengagement of the catch so that the lid is free to open automatically under the action of the spring.

2. A lidded box comprising a box-portion and a lid, a hinge connecting said box and lid together along the back edge, springs on said hinge tending to maintain the lid in the open position, a centrally disposed projection on the front wall of the box, a centrally disposed catch on the front wall of the lid adapted to coact with said projection to maintain said lid in the closed position and means comprising a further projection on the front wall of the box on either side of the central projection for limiting the extent of closure and on which the front part of the lid has a slight rocking movement when depressed at one of its front corners, which rocking movement serves to effect the disengagement of the catch so that the lid is free to open automatically under the action of the spring.

3. A lidded box comprising a box-portion and a lid, a hinge connecting said box and lid together along the back edge, springs on said hinge tending to maintain the lid in the open position, a centrally disposed projection on the front wall of the box, a centrally disposed catch on the front wall of the lid adapted to coact with said projection to maintain said lid in the closed position and means comprising an upwardly disposed extension on the front wall of the box, the top edge of said extension being cambered so that the depth is less at the ends than at the centre for limiting the extent of closure and on which the front part of the lid has a slight rocking movement when depressed at one of its front corners, which rocking movement serves to effect the disengagement of the catch so that the lid is free to open automatically under the action of the spring.

4. A lidded box comprising a box portion and a lid, a hinge connecting said box and lid together along the back edge, springs on said hinge tending to maintain the lid in the open position, a centrally disposed projection on the front wall of the box, a centrally disposed catch on the front wall of the lid adapted to coact with said projection to maintain said lid in the closed position, means on the front wall of the box for limiting the extent of closure and on which the front part of the lid has a slight rocking movement when depressed at one of its front corners, which rocking movement serves to effect the disengagement of the catch so that the lid is free to open automatically under the action of the spring, and means for limiting the extent of opening of the lid.

ALBERT HORNEMANN.