May 2, 1933. E. C. ALLEN 1,906,220

RECEPTACLE SUPPORT

Filed July 14, 1931 2 Sheets-Sheet 1

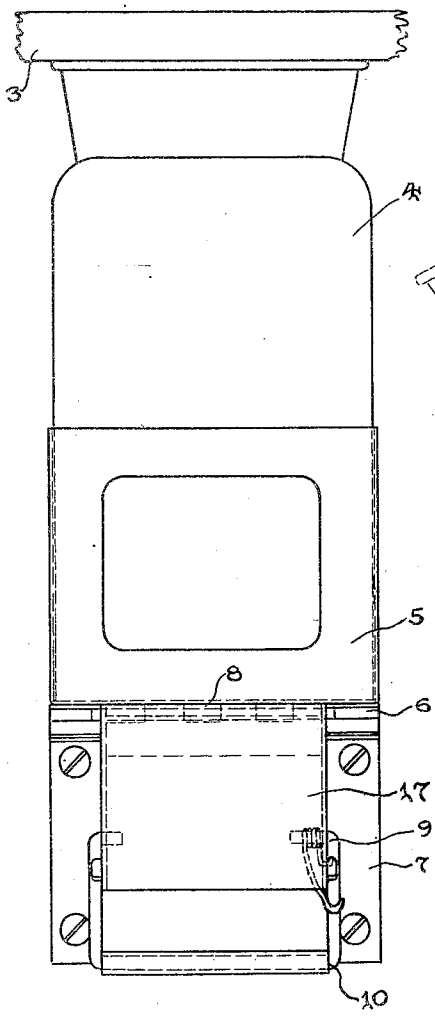


FIG-1

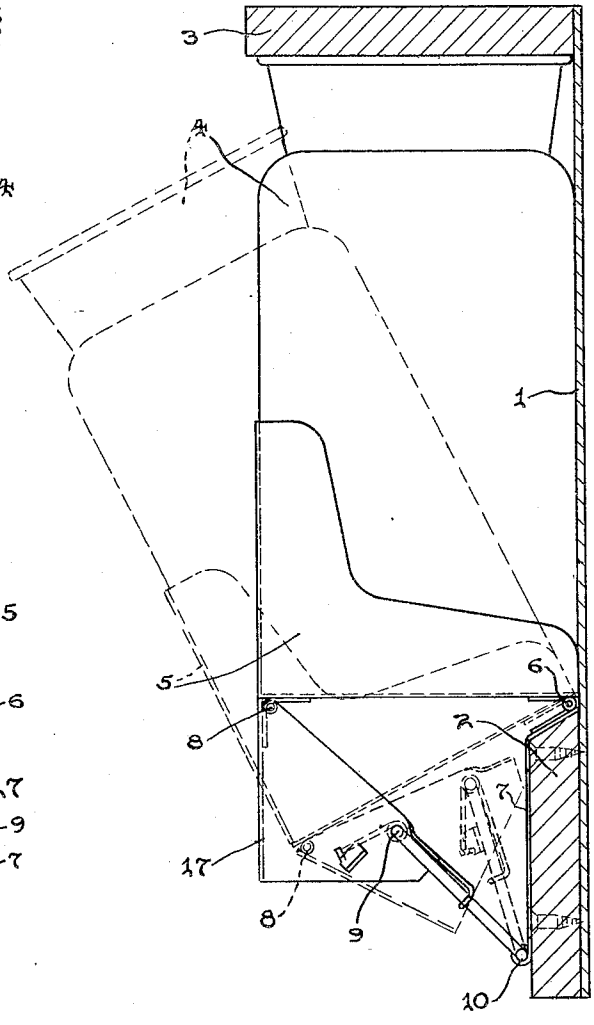


FIG-2

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RECEPTACLE SUPPORT

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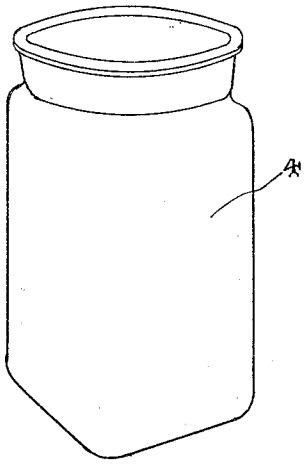


FIG-3

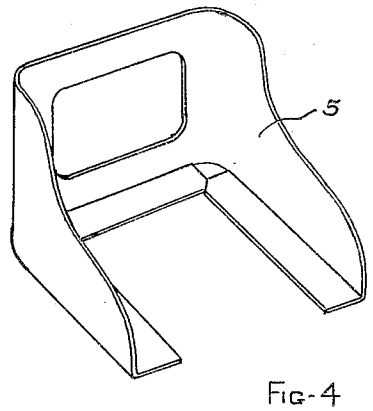


FIG-4

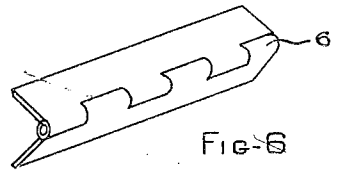


FIG-6

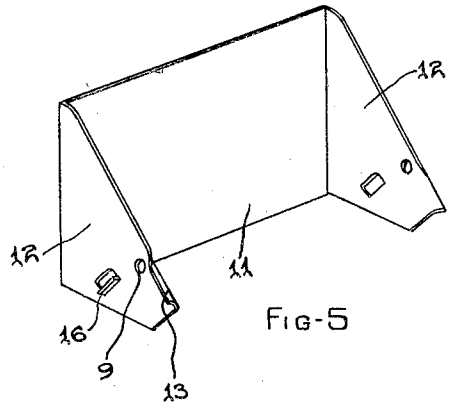


FIG-5

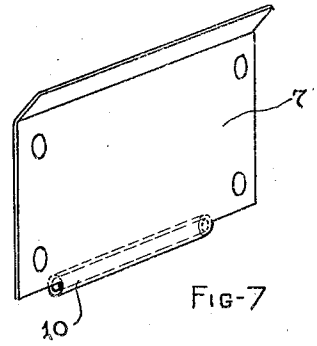


FIG-7

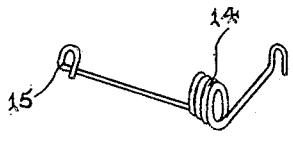


FIG-8

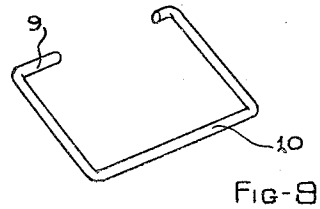


FIG-9

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Patented May 2, 1933 1,906,220

UNITED STATES PATENT OFFICE

ERNEST C. ALLEN, OF ROCHESTER, NEW YORK

RECEPTACLE SUPPORT

Application filed July 14, 1931. Serial No. 550,804.

The present invention relates to receptacle supports, and an object thereof is to provide a novel support which will permit the contents of a receptacle to be removed without removing the receptacle from the support. Another object of the invention is to provide a tiltable support for a receptacle which will be effectively held in its supporting position but may be readily moved to a dropped position where the contents of the receptacle are subject to easy access.

To these and other ends, the invention consists of certain parts and combinations of parts all of which will be hereinafter described: the novel features being pointed out in the appended claims.

In the drawings:

Fig. 1 is a front view of the receptacle support with a receptacle in position thereon and the support in its upper position;

Fig. 2 is a side view of the receptacle support with the receptacle in position thereon and the support being shown in full lines in its upper position and in dotted lines in its dropped position;

Fig. 3 is a perspective view of a type of receptacle used with the support;

Fig. 4 is a perspective view of the support;

Fig. 5 is a perspective view of the sheet metal toggle member;

Fig. 6 is a perspective view of the hinge between the swinging support and the fixed part;

Fig. 7 is a perspective view of the back plate;

Fig. 8 is a perspective view of the toggle spring; and

Fig. 9 is a perspective view of the lower toggle member.

The present invention is illustrated in connection with a kitchen cabinet in which 1 indicates the back wall of the cabinet, 2 a rail secured to such back wall and 3 a horizontal closure member. The receptacle support 5 is secured to the rail 2 side by side so that the closure member acts as a common closure for a plurality of receptacles 4 arranged on the supporting members 5. Each supporting member 5 is hinged at 6 so as to swing downwardly and rearwardly at its forward edge in order to carry the upper edge of the receptacle 5 forwardly and downwardly away from the cover strip 3 and expose the contents of the receptacle to access. The hinge 6 has one leaf secured to the receptacle support 5 and the other leaf secured to a back plate 7 which covers the strip 2.

The receptacle support is held in its upper position by a toggle, in this instance, comprising an upper member hinged at 8 to the forward end of the receptacle support 5, and the lower member hinged at 9 to the upper member to form the knuckle of the toggle and at 10 to the lower edge of the plate 7. The upper toggle member is preferably formed from sheet material bent to provide a connecting portion 11 and two arms 12 providing a U shaped member. When the toggle is in the extended position, the connecting portion 11 depends substantially vertically from the lower edge of the support 5 and serves as an operating portion for the toggle. The lower member of the toggle is, in this instance, also a U shaped member formed from a single piece of yieldable wire stock whose ends provide pintles serving as a pivot or knuckle of the toggle. In order to limit the outward or downward movement of the knuckle of the toggle, a stop 13 may be provided which will cooperate with both arms of the lower toggle member after the knuckle has passed to or below a line intersecting the pivots 8 and 10 of the upper and the lower toggle members respectively. When in this position, the toggle will effectively hold a support 5 in its raised position. A spring 14 is passed about one of the pintles of the lower toggle and has one end anchored at 15 to one arm of the lower toggle and another end anchored at 16 to a lip on the upper toggle. This spring normally tends to hold the knuckle of the toggle in its downward or locked position, but when rearward pressure is applied to the plate 11 of the upper toggle member, the spring will yield and permit the toggle to bend upwardly thus effecting the descent of the receptacle support 5 away from the rail 2 so that access may be had to the contents of the receptacle.

When the receptacle is raised to its closed position and the knuckle of the toggle moves downward and the sides of the lower toggle member are sufficiently resilient to yield and cushion such downward movement and absorb the shock. This prevents the jar which otherwise would occur if the downward movement of the knuckle were not cushioned.

What I claim as my invention and desire to secure by Letters Patent is:

1. A receptacle support comprising a stationary top piece against the under side of which the upper open end of a receptacle is adapted to normally contact, and a swinging supporting member pivoted at its rear portion and mounted to swing downwardly and rearwardly at its forward portion to carry the top of the receptacle forwardly and downwardly away from the top piece, thereby permitting unobstructed removal of the contents of the receptacle from the upper open end thereof.

2. A receptacle support comprising a top piece positioned above the upper end of a receptacle in the support, a swinging supporting member pivoted at its rear portion and mounted to swing downwardly and rearwardly at its forward edge, and a toggle having one arm pivotally connected to the forward portion of the swinging support and the other arm pivoted to a fixed part below the rear edge of the swinging support, whereby the receptacle is moved forwardly and downwardly away from the top piece permitting removal of the contents of the receptacle from the upper end thereof.

3. A receptacle support comprising a top piece positioned above the upper end of a receptacle in the support, a swinging supporting member pivoted at its rear portion and mounted to swing downwardly and rearwardly at its forward edge, and a toggle having one arm pivotally connected to the forward portion of the swinging support and the other arm pivoted to a fixed part below the rear edge of the swinging support, and means limiting the forward position of the knuckle pivot of the toggle to a position in advance of a center line through the two supporting pivots of the toggle so as to lock the swinging support in its upper position.

4. A receptacle support comprising a swinging supporting member pivoted at its rear portion and mounted to swing downwardly and rearwardly at its forward edge, and a toggle having one arm pivotally connected to the forward portion of the swinging support and the other arm pivoted to a fixed part below the rear edge of the swinging support, and means limiting the forward position of the knuckle pivot of the toggle to a position in advance of a center line through the two supporting pivots of the toggle so as to lock the swinging support in its upper position, and spring means acting on the toggle to hold the swinging support in its elevated position.

5. A receptacle support comprising a swinging supporting member pivoted at its rear portion and mounted to swing downwardly and rearwardly at its forward edge, and a toggle having one arm pivotally connected to the forward portion of the swinging support and the other arm pivoted to a fixed part below the rear edge of the swinging support, the upper toggle member comprising a U shaped plate one edge of the cross piece of which is pivoted to the swinging support and the cross piece projecting downwardly from the support substantially in a vertical direction to serve as an operating portion for the toggle.

6. A receptacle support comprising a swinging supporting member pivoted at its rear portion and mounted to swing downwardly and rearwardly at its forward edge, and a toggle having one arm pivotally connected to the forward portion of the swinging support and the other arm pivoted to a fixed part below the rear edge of the swinging support, the upper toggle member comprising a U shaped plate one edge of the cross piece of which is pivoted to the swinging support and the cross piece projecting downwardly from the support substantially in a vertical direction to serve as an operating portion for the toggle, and the lower toggle comprising a U shaped member having its cross piece pivoted to the fixed part below the swinging support, and its arms pivoted to the arms of the U shaped plate to form the knuckle of the toggle.

7. A receptacle support comprising a top piece, and a swinging supporting member pivoted at its rear portion and mounted to swing downwardly and rearwardly at its forward portion on a toggle to carry the top of a receptacle forwardly and downwardly away from the top piece, one member of the toggle being resilient and yieldable to cushion the downward movement of the toggle.

ERNEST C. ALLEN.