N. L. CARTER.

DOME SUPPORT.

APPLICATION FILED FEB. 1, 1921.

1,380,946. Patented June 7, 1921.

Fig. 1.

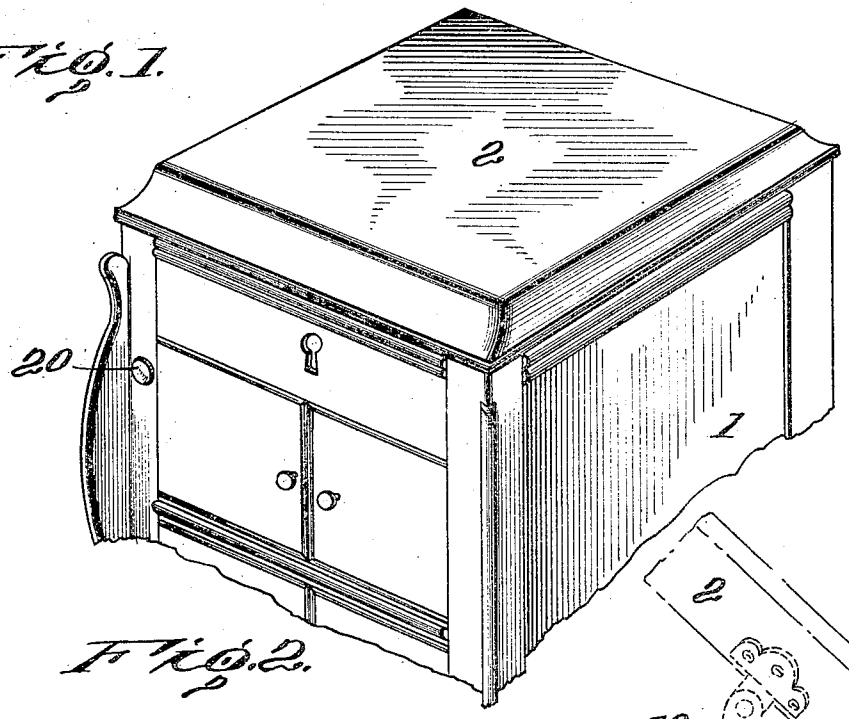


Fig. 2.

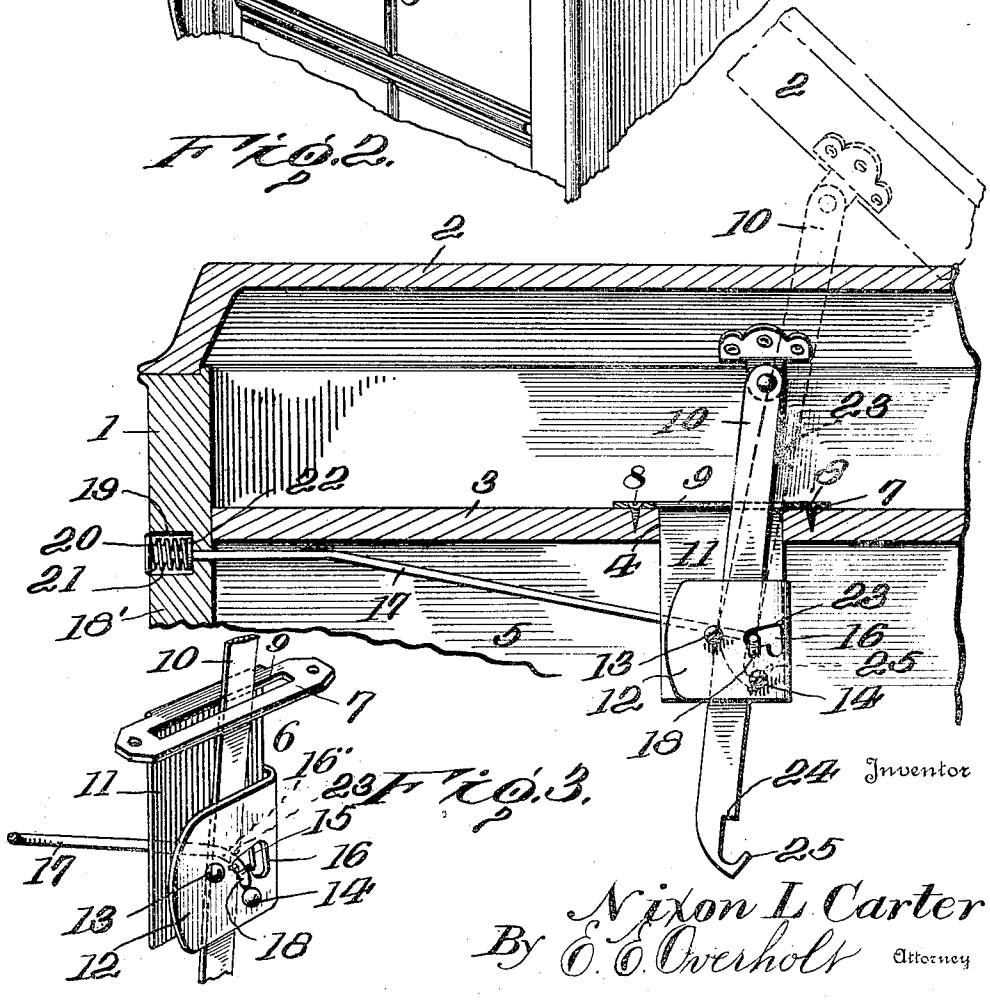


Fig. 3.

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DOME-SUPPORT.

1,380,946. Specification of Letters Patent. Patented June 7, 1921.

Application filed February 1, 1921. Serial No. 441,583.

To all whom it may concern:

Be it known that I, NIXON L. CARTER, a citizen of the United States, residing at Newport News, in the county of Warwick and State of Virginia, have invented certain new and useful Improvements in Dome-Supports, of which the following is a specification.

My invention relates to new and useful improvements in hinged cover supports.

The object of my invention is to provide a support of this character adapted to hold a cover of any character in a raised position, so that access may be had to the receptacle, and also provide means whereby said support may be readily released for closing the cover as well as means for locking the cover closed.

Another object of my invention is to provide a cover support in which the whole mechanism is contained within the receptacle and has a neat appearance and at the same time provides a cheap, simple and effective structure having certain details of structure and combination of parts hereinafter more fully set forth.

In the accompanying drawings—

Figure 1 is a perspective view of a graphophone, showing the position of the releasing mechanism in respect to the cover;

Fig. 2 is an enlarged vertical sectional view showing the cover in full lines locked in the closed position, and in dotted lines, in its raised locked position;

Fig. 3 is an enlarged perspective view of the lock carrying plate and its locking member.

Referring now to the drawings, 1 represents a graphophone which has the usual dome or cover 2 hinged at its rear end, and adapted to be raised and held in its raised position for placing a graphophone record thereon as well as the reproducer for playing the record. While I have shown this specific application of my invention, it will be understood that the same may be used on any kind of a receptacle having a cover—whether it be of the dome form or perfectly flat.

The receptacle of the form shown in the drawings is provided with a shelf or partition 3, horizontally arranged as shown, and has a vertical elongated opening 4 therethrough, adjacent the side wall 5 of the receptacle, so that the same will not interfere with the running of the record support, or when otherwise used, will not interfere with the contents of the box or receptacle. Secured in said opening 4 is a housing 6 made of a single sheet of metal and comprising an upper flat plate 7 secured to the partition 3 by means of screws 8 and provided with an elongated slot 9, through which the supporting link 10 passes, as will be later described. The flat plate 7, at one side, has an integral downwardly extending portion 11, which has a wing portion 12 bent back upon the portion 11 and spaced therefrom forming the guide for the supporting link and the locking rod, as will be now described.

The two portions 11 and 12 are held in their spaced relation by means of screws 13 and 14, which also serve as guides for the supporting link, as fully shown in Figs. 2 and 3 of the drawings. The said plate and wing portion has L-shaped oppositely arranged slots 15 and 16 which allow the insertion of the double hooked end 16′ of the locking rod 17. The hooked end 16′ of the rod 17, as heretofore stated, is bent laterally and then downwardly at 18, and after insertion in the L-shaped slot the downwardly bent portion engages the outer face of the wing portion 12 and prevents the transverse movement of the rod and during the normal operation the rearward movement of the rod is not sufficient to allow the hooked end to reach the vertical portion of the L-shaped slot, so that it is impossible for the rod to move out of its normal operative position.

The rod 17 extends forwardly and passes through the front wall 18′ of the receptacle and surrounds said rod and the outer face of said wall is provided with an enlarged recess 19, and the end of the rod with a cap 20 screwed or otherwise secured thereon, and of a diameter slightly less than that of the recess, whereby the button may be pushed in for forcing the rod downwardly. Surrounding the rod within the recess is a coiled spring 21, having one end which engages the cap 20 and the opposite end engaging the washer 22, loosely resting on the bottom of the recess, so that the button and rod are normally held in an outward position.

The supporting link intermediate its ends is provided on its inner edge with a notch 23 adapted to be engaged by the laterally bent portion of the hooked end of the rod and lock the dome or top in its lowered position. The lower end of the link is provided with a notch 24, and its extreme lower end

has a hooked extension 25, which extends beyond the inner edge of the link and engages the lateral portion of the hook carried by the rod and prevents the link from being withdrawn from between the plates 11 and 12.

From the foregoing description, it will be seen that the spring 21 normally holds the rod 17 outward, causing the lateral bent portion of the rod to bear against the inner edge of the link 10, and when the dome or cover is closed, it enters the notch 23 in the link 10 and holds the dome or cover closed so that it can not be released. To open the cover or dome the button or cap 20 is pushed in forcing the rod 17 inwardly, which causes the lateral portion of the hook to travel out of the notch 23 and the cover can be opened by hand. As soon as the cover is started upwardly, the button or cap is released and the lateral portion frictionally engages the rear edge of the link and when the cover has nearly reached its upward limit of movement, the lateral portion of the hook enters the notch and prevents the downward movement of the link and supports the dome or cover in its raised position. Should the cover be carried further the hook 25 will engage the lateral portion of the hooked end of the rod and prevent the link from being withdrawn from between the plates 11 and 12. If it is desired for any reason to raise the cover further than allowed by the link, a continued pressure on the cap or button will move the lateral portion of the hook beyond the hook 25.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. In a lid support and lock, the combination with a receptacle and its cover, of a link pivotally connected to the cover and having notches in its rear edge, a plate having a guide for said link, a spring pressed rod extending from the front of the receptacle and having a hooked end extending through the plate and adapted to enter the notches in the link.

2. In a lid support and lock, the combination with a receptacle and its cover, of a link pivotally connected to the cover and having notches in its rear edge, a plate having a guide for said link, and a spring pressed rod extending from the front of the receptacle and having a hooked end extending through the plate and a downwardly bent portion to retain the hook to the plate and adapted to engage the rear edge of the link and enter the notches therein.

3. In a lid support and lock, the combination with a receptacle and its cover, of a link pivotally connected to the cover and having notches in its rear edge, a plate secured to the receptacle and having a wing portion bent over thereon and spaced therefrom forming a guide for the link, a spring pressed rod extending from the front of the receptacle and having a hooked end extending through the plate and wing portion and engaging the rear edge of the link to enter the notches therein, and said hooked end of the rod having a downwardly bent portion on the outside of the wing of the plate to prevent the transverse movement of the rod in the plate.

4. In a lid support and lock, the combination with a receptacle and its cover, of a link pivotally connected to the cover and having notches in its rear edge, a horizontal plate secured to the receptacle and having a slot through which the link passes, one edge of said plate being turned downwardly and having a wing bent back parallel and spaced therefrom having oppositely arranged L-shaped slots, screws connecting the wing and plate and forming guides for the link, a spring pressed rod extending from the front of the receptacle and having a horizontal laterally turned end terminating in a downwardly bent portion adapted to be inserted through the L-shaped slot and the downwardly turned portion engaging the outer face of the wing to retain the rod against lateral movement, the laterally turned end of the rod being adapted to enter the notches in the link.

In testimony whereof I affix my signature.

NIXON L. CARTER.