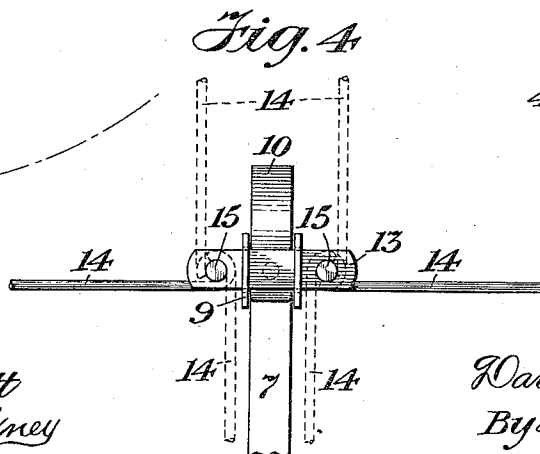
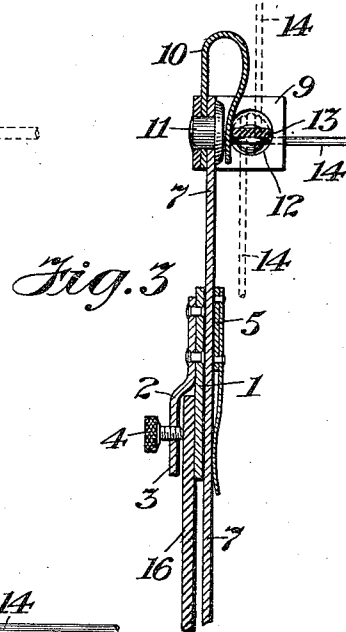
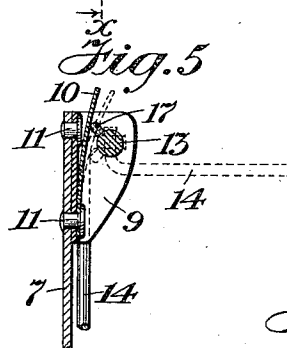
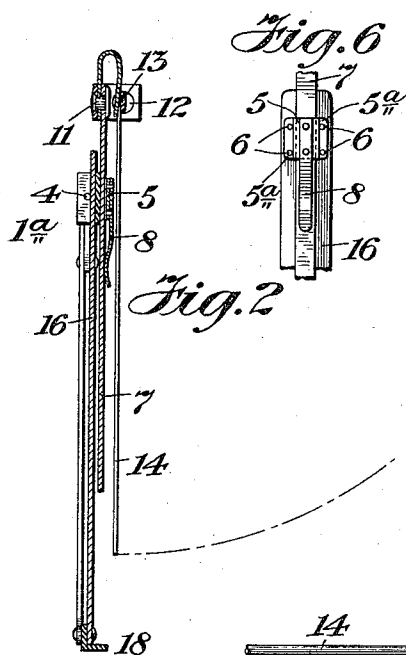


1,060,332.



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UNITED STATES PATENT OFFICE.

DAVID E. FORCE, OF JERSEY CITY, NEW JERSEY.

MUSIC OR LEAF HOLDER.

1,060,332.

Specification of Letters Patent.

Patented Apr. 29, 1913.

Application filed March 11, 1912. Serial No. 682,925.

To all whom it may concern:

Be it known that I, DAVID E. FORCE, a citizen of the United States, residing at Jersey City, in the county of Hudson and State of New Jersey, have invented an Improvement in Music or Leaf Holders, of which the following is a specification.

My invention relates to a leaf holder, and is particularly adapted for use with folding music-racks or desks, or in connection with book-holders or racks for the purpose of retaining the leaves in the desired position; and its object is to provide a device that may be readily attached to a book or music-rack or desk; to permit of its adjustment to music or books of various size: to provide for holding the leaves on both the right and left hand of the music or book at the same time, and to allow the leaves to be turned as desired in a convenient and easy manner. The details of the invention are hereinafter more particularly described.

In the accompanying drawing, in which like reference characters indicate similar parts throughout the several views—Figure 1 is an elevation of a folding rack, with my improved leaf holder attached thereto, and showing in full and broken lines the several positions to which the holding rods may be adjusted. Fig. 2 is a vertical section on the broken line *x x* of Fig. 1. Fig. 3 is a vertical section in larger size on about the same line as Fig. 2, of the upper part, but showing a modified form of clamping member and the holding rods in a different full line position. Fig. 4 is an elevation of the upper part of Fig. 1, on the same scale as Fig. 3, showing several positions of the leaf-holding rods, in full and broken lines. Fig. 5 is a central vertical section of the upper part, showing a modification in the cross-bar and the manner of connecting the leaf-holding rods thereto, and Fig. 6 is an elevation of the upper part of a center bar of a music-rack, showing how my improved leaf-holder may be attached without the use of the clamping members shown in Figs. 1, 2 and 3.

My improved holder may be connected with a rack by either of the means shown in the drawing. The clamping device illustrated in Fig. 3 comprises a front plate 1, a back plate 2 secured at its upper end to the

rear of the front plate 1, in any suitable manner, and bent into a parallel spaced relation to form a recess 3 adapted to receive the upper end of the center bar 16 of a music or book rack 18, to which it is held by the screw 4, which is passed through a screw-threaded hole in the back plate 2. Upon the front surface of the plate 1 is a socket strap 5. This is preferably formed from a comparatively thin sheet of metal pressed up across its longitudinal center, leaving right angled flanges 5^a at either side, which are secured to the plate 1 by rivets 6 or in any suitable manner.

7 is a central bar or rod, the lower end of which is adapted to fit within the strap 5, and capable of vertical adjustment therein. This center bar 7 is preferably flat sided, and fits within the strap 5 with sufficient friction to retain it in the desired position, but as an additional means for holding it in such position, a spring 8 may be employed, its upper end being secured to the strap by any suitable means, while its free end acts against the bar 7. To the upper end of the center bar 7, is secured a U-shaped bracket 9, and a spring 10. These may be attached to the rod in any suitable manner, but I prefer to employ one or more rivets 11, which pass through holes in the bar 7 and in the bracket and spring, registering with each other.

Apertures 12 are formed in the spaced sides of the bracket 9, in alinement with each other. A cross-bar 13, having a hole adjacent each end, passes through these apertures 12, its ends extending at either side of the bracket 9. The free end of the spring 10 is preferably bent over and passed down within the bracket 9, so that the spring presses against the inner surface of the cross-bar 13.

14, 14, are two rods each having one end pivotally connected to the cross-bar 13. I prefer to make use of headed pivot pins 15, around which the upper ends of the rods 14 are bent. These pins 15 pass through the holes in the ends of the cross-bar 13, and their ends are then upset, securely fastening them in place, and thus binding the looped or eye ends of the rods 14 between the heads of the pins 15 and the inner surface of the

cross-bar 13 with sufficient friction to hold the rods 14 in the lateral position to which they may be swung. The rods 14 are to be placed over the leaves of a book or music, as shown in Fig. 1, (the leaves being shown in broken lines), and are held in such position by the tension of the spring 10 bearing against the cross-bar 13 and their lower ends may be spread apart a greater or less distance, as desired, on account of the pivotal connection of their upper ends with the cross-bar 13.

When it is desired to turn a leaf, the rods 14 may be swung on their pivots laterally into the horizontal position shown by the dotted or broken lines Fig. 1, or they may be swung up forwardly, thus turning the cross-bar 13, causing it to compress the spring 10 until its flat upper edge bears against the spring 10, when the rods will be held by the tension of the spring 10 in the outwardly inclined position shown in Fig. 3, or they may be swung still further upward until the edge of the cross-bar passes over the spring 10, when the spring will bear against the outer or front surface of the cross-bar 13 and hold the rods 14 in the vertical position shown by dotted or broken lines in Figs. 1, 3 and 4.

It is preferable that the rods 14 be held in the position last described when the music or book is about to be placed upon the desk or rack, although it will be readily seen that the music or book may be placed upon the rack when the rods are in the outwardly inclined position shown by dotted or broken lines in Fig. 3.

I do not wish to be limited to the manner of clamping my improved holder to the rack or support as shown in Fig. 3, because this may be accomplished in various ways without departing from the spirit of my invention. I have shown a modified form in Figs. 1 and 2, in which the back plate 2 is dispensed with and the plate 1 formed with a right angled flange 1^a at one side and its edge turned over at its opposite side to engage the center bar 16 of a rack, there being a screw-threaded hole in the flange 1^a through which is passed a screw 4, which bears against the rear of the rack-bar 16, when screwed into place as shown.

I may also dispense with a clamping member in connecting my improved holder to a rack, by simply securing the strap 5 to the center bar 16 of the rack, as shown in Fig. 6, and this connection is desirable when my improved holder is used with a rack similar to that shown in the patent granted to me January 9, 1912, No. 1,014,381, in which case the rack may be folded and placed within its carrier without detaching the holder.

In Fig. 5 of the drawing, I have shown a slight modification, wherein the cross-bar 13 may be round and provided with a cen-

tral lug or projection 17, to act against the spring 10, which in this case does not require to be turned over as in the other figures, on account of the lug 17 on the cross-bar in contact therewith. In this modified form of cross-bar, the rods 14 are bent over at right angles at their upper ends and such bent over portions passed through the holes in the ends of the cross-bar and then upset to retain them therein.

I claim as my invention:

1. A leaf holder comprising a center bar, a U-shape bracket rigidly secured to the upper end of said bar, a cross bar supported by said bracket and having its ends extending at each side thereof, a spring acting against said cross bar, rods pivotally connected at one end to the extending ends of said cross bar at the sides of the bracket, and means for connecting the holder to a rack.

2. A leaf holder comprising a center bar, a U-shape bracket rigidly secured to the upper end of said bar, a cross bar supported by said bracket and having its ends extending at each side thereof, a spring acting against said cross bar, rods pivotally connected at one end to the extending ends of said cross bar at the sides of the bracket, and means for connecting the holder to a support and allowing for its vertical adjustment thereon.

3. A leaf holder comprising a center bar, a bracket secured to one end of said bar and having spaced sides with oppositely disposed apertures therein, a cross-bar arranged within said apertures, rods pivotally connected at one end to said cross bar at each side of the bracket, a spring having one end secured to said center bar, and adapted to act against said cross-bar, and means for connecting said holder to a support and allowing its vertical adjustment thereon.

4. A leaf holder comprising a center bar, a bracket secured to one end of said bar, a cross-bar supported by said bracket and having a hole through it at or near each end, headed pivot pins passing through said holes in the cross-bar, a spring acting against said cross-bar, rods having an eye or loop at their upper ends encircling said pivot pins between said cross-bar and the heads of said pins, and means for connecting the holder to a support.

5. A leaf holder comprising a center bar, a bracket rigidly secured to the upper end of said bar, a cross bar supported by said bracket and having its ends extending at each side thereof, a spring having one end secured to said center bar and adapted to act against said cross bar, rods pivotally connected at one end to the extending ends of said cross bar at the sides of the bracket, and a clamping member by which the holder may be attached to a support in a vertically adjustable manner.

6. A leaf holder comprising a center bar, a bracket secured to one end of said bar, a cross-bar supported by said bracket, a spring acting against said cross-bar, rods pivoted at one end to said cross-bar, a clamp, a pocket carried by said clamp and adapted to receive the center bar of the holder and allow of its vertical adjustment when the holder is attached to a support by said clamp.

Signed by me this 6th day of March, 1912.
DAVID E. FORCE.

Witnesses:

GEO. T. PINCKNEY,
J. B. LE BLANC.

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