R. M. DAVIS.

BOOK HOLDER.

APPLICATION FILED DEC. 3, 1921.

1,427,074.

Patented Aug. 22, 1922.

3 SHEETS—SHEET 1.

Fig. 1.

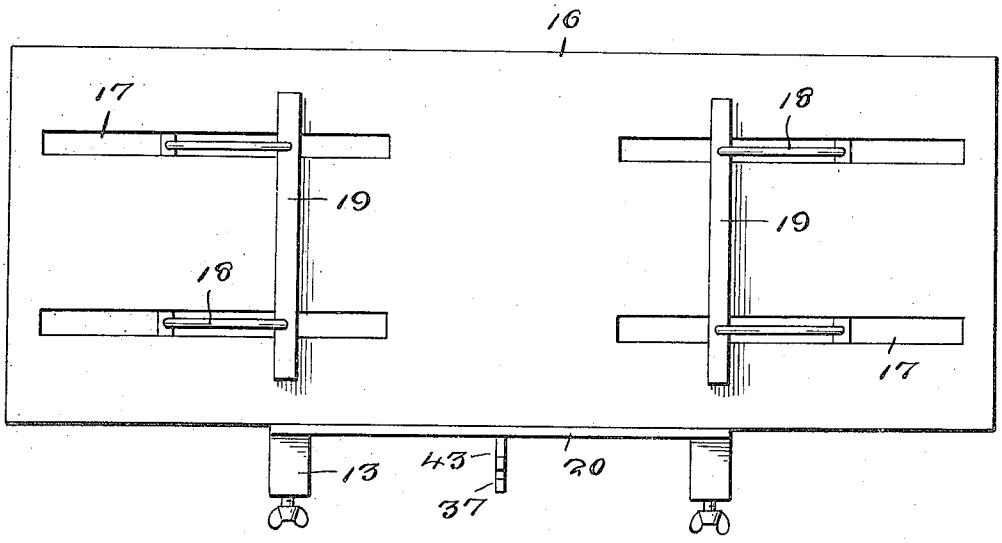
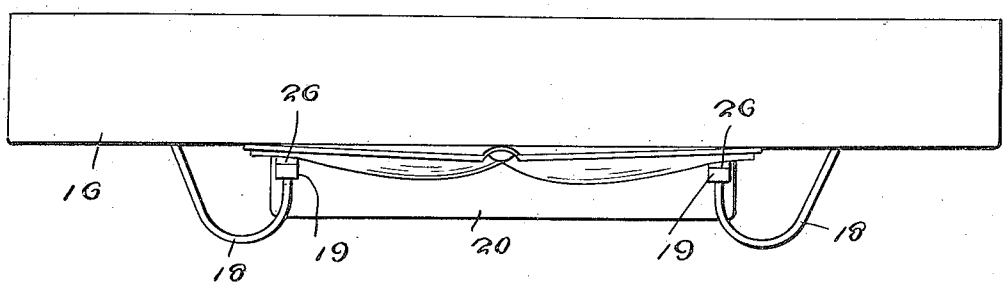


Fig. 3.



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3 SHEETS—SHEET 2.

Fig. 2.

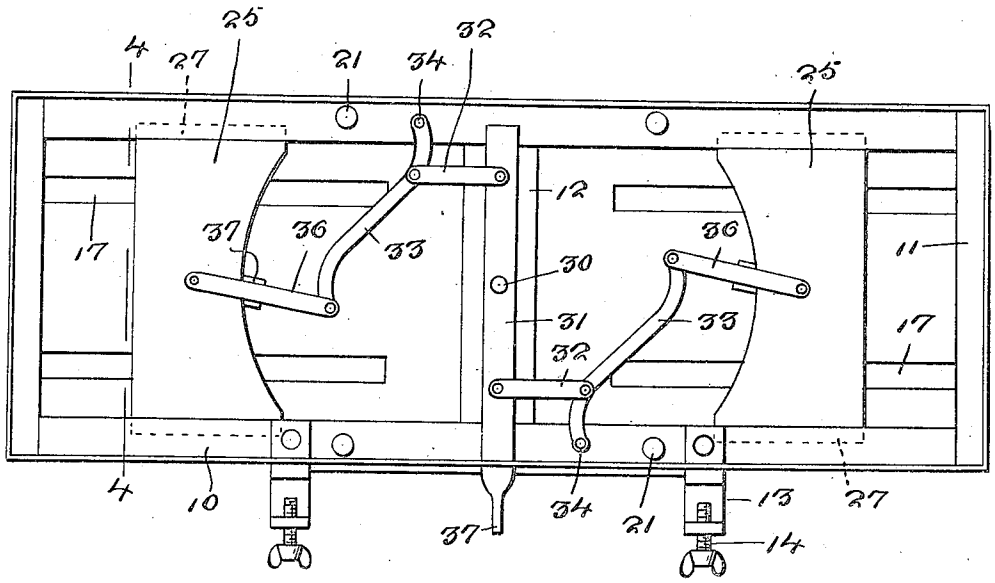


Fig. 4

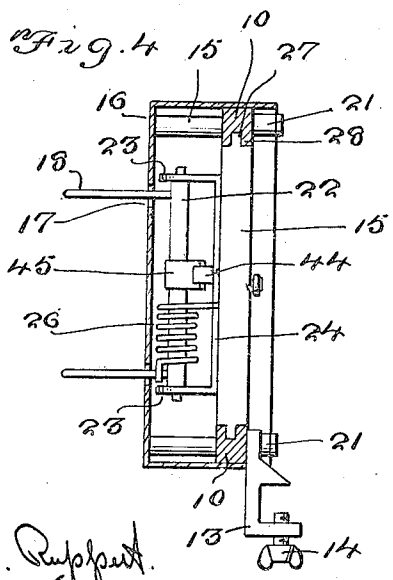
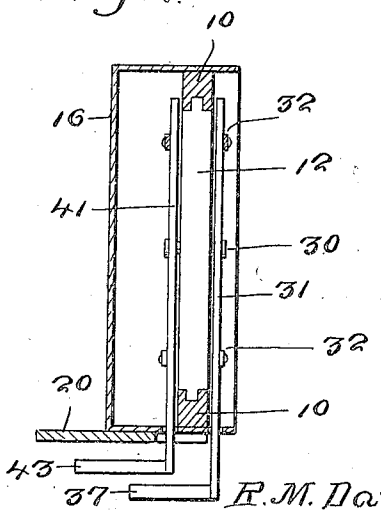


Fig. 7.



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3 SHEETS—SHEET 3.

Fig. 6.

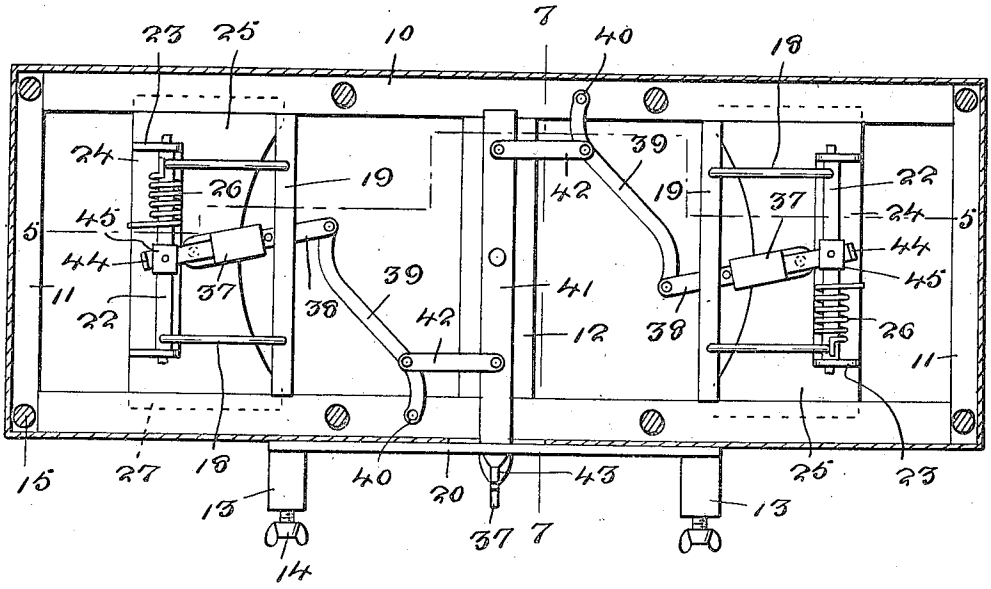
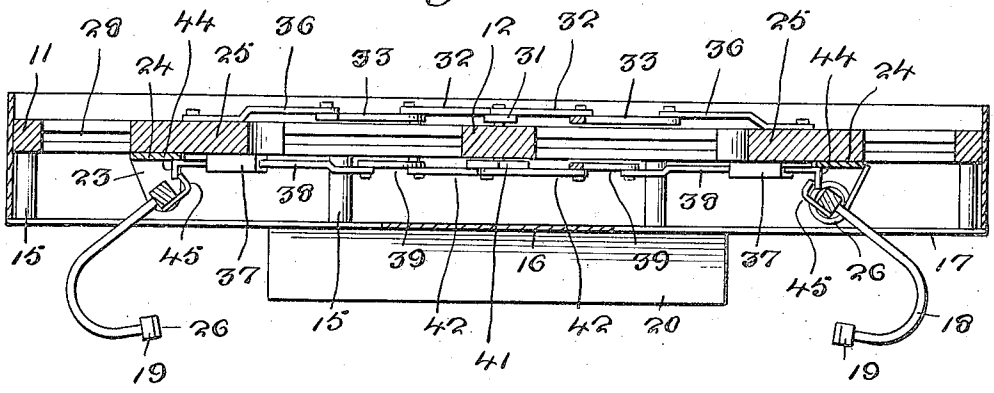


Fig. 5.



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UNITED STATES PATENT OFFICE.

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BOOK HOLDER.

1,427,074. Specification of Letters Patent. Patented Aug. 22, 1922.

Application filed December 3, 1921. Serial No. 519,675.

To all whom it may concern:

Be it known that I, RALEIGH M. DAVIS, a citizen of the United States, residing at Ponce de Leon, in the county of Holmes and State of Florida, have invented new and useful Improvements in Book Holders, of which the following is a specification.

This invention relates to book holders and has for an object the provision of a device by means of which a book may be held in open position, the invention being especially adapted for use on pianos, for conveniently holding music books, or sheet music.

Another object of the invention is the provision of a holder having novel means for engaging and holding the leaves of a book in open position, the said means being operable to simultaneously engage both open pages of a book and adjustable to accommodate books of different sizes.

With the above and other objects in view, the invention further includes the following novel features and details of construction, to be hereinafter more fully described, illustrated in the accompanying drawings and pointed out in the appended claims.

In the drawings:—

Figure 1 is a front elevation of the invention.

Figure 2 is a rear elevation of the same.

Figure 3 is a top view looking at the upper edge of the holder and showing the leaf engaging arms in closed position.

Figure 4 is a section on the line 4—4 of Figure 2.

Figure 5 is a section on the line 5—5 of Figure 1 showing the leaf engaging arms in open position.

Figure 6 is a longitudinal section on the line 6—6 of Figure 4, showing the leaf arm actuating mechanism.

Figure 7 is a section on the line 7—7 of Figure 6.

Referring to the drawings, wherein like characters of reference denote corresponding parts, the holder which is designed to be secured to a suitable support, for example, the music rack of a piano, comprises a frame which includes upper and lower rails 10, end connecting rails 11 and a center rail 12. Secured to the lower rail 10 are spaced clamps 13, which are adapted to engage the outer edge of the horizontal portion of a piano music rack and held in position by means of thumb screws 14. The clamps are suitably cushioned as shown so as to prevent injury to the music rack.

Spaced from the frame, by means of arms 15 is a plate 16. This plate is provided with spaced longitudinally arranged slots 17, which are disposed in pairs at opposite ends of the said plate and are for the purpose of permitting of the passage of curved fingers 18, which carry at their outer ends vertically disposed bars 19. These fingers and bars provide a leaf arm which is adapted to engage over the leaves of the book and as one of these arms is provided upon each side of the center of the holder, the book may be readily held in open position. The lower edge of the plate has extending therefrom a ledge 20 upon which the book is adapted to rest. In addition, the frame is provided with a plurality of rearwardly extending cushioned bumpers 21 for contact with the music rack of the piano.

The leaf arms are capable of being raised and lowered so as to receive beneath them the edges of a book and in order to provide for the raising and lowering of these arms, the inner ends of the fingers 18 are connected to a rock shaft 22. This shaft is mounted in bearing brackets 23 provided at each end of a plate 24 and this plate is secured to one face of a slide 25. A spring 26 surrounds the rock shaft 22 and acts to normally hold the leaf arms in contact with or to urge them in a direction toward the plate 16. The lower faces of the bars 19 of the leaf arms are preferably cushioned as shown at 26.

The slide 25 is duplicated upon each side of the vertical center of the holder, so that each of the leaf arms is supported by a slide, the purpose being to permit of relative adjustment of these arms so as to accommodate books of different sizes. To accomplish this, each of the slides 25 is provided with a tongue 27, which is received and slides within a groove 28 extending longitudinally in each of the members 10 of the frame.

For the purpose of adjusting the slides 25, the bar 12 has pivotally secured thereto as shown at 30, an adjusting lever 31. This lever has pivotally connected thereto one end of a pair of links 32, the opposite ends of which are pivotally connected to arms 33, in turn pivoted upon the frame as shown at 34. The arms 33 also have pivotal connection with one end of links 36 and the

latter are pivotally secured to the slides 25 as shown at 36. The lever 31 extends downwardly beneath the frame and is provided with a finger piece 37.

By moving the lever 31 upon its pivot, the slides may be relatively moved toward and away from each other so as to adjust the leaf arms for the accommodation of a particular book.

Provision is also made for raising the leaf arms to receive the book and this raising of the arms may be accomplished simultaneously with their adjustment. For this purpose, each of the slides 25 have secured upon their inner faces a guide 37, within which operates a slide bar 38. Pivotally connected to one end of each of the slide bars 38 is an arm 39 and this arm is also pivotally connected to the frame as shown at 40. In addition, each of the arms 39 is connected to an operating lever 41, through the medium of links 42 and the said operating lever extends downwardly beneath the frame and is provided with a finger piece 43, the latter being in juxtaposition to the finger piece 37 so as to permit of the simultaneous operation of the lever with one hand. The opposite end of the slide 38 is provided with an offset extremity 44, which engages a finger 45 which extends laterally from and is secured to the rock shaft 22. Thus, as the slide 38 is moved through the operation of the lever 41, its offset portion 44 will engage the arm 45 and rock the shaft 22 against the action of the spring. This will raise the leaf arms from engagement with the plate 16 and as soon as the operating lever is released, the leaf arms will return to their normal position, under the action of the spring.

The invention is susceptible of various changes in its form, proportions and minor details of construction and the right is herein reserved to make such changes as properly fall within the scope of the appended claims.

Having described the invention what is claimed is:—

1. A book holder embodying a frame, a slotted face plate secured to and spaced from the frame, spring actuated leaf engaging arms extending through the slots of the plate, said arms each comprising a vertically disposed bar and spaced fingers connected to said bar and extending through the slots of the plate, a rock shaft connected to the fingers, means whereby the rock shaft of each arm may be rotated to move the fingers in a direction away from the plate and means for adjusting the arms relatively.

2. A book holder embodying a frame, a slotted face plate secured to and spaced from the frame, spring actuated leaf engaging arms extending through the slots of the plate, said arms each comprising a vertically disposed bar and spaced fingers connected to said bar and extending through the slots of the plate, a rock shaft connected to the fingers, means including oppositely movable slides, whereby the arms may be moved in a direction away from the plate and means for adjusting the arms relatively.

3. A book holder embodying a frame, a slotted face plate secured to and spaced from the frame, spring actuated leaf engaging arms extending through the slots of the plate, said arms each comprising a vertically disposed bar and spaced fingers connected to said bar and extending through the slots of the plate, a rock shaft connected to the fingers, oppositely movable slides engageable with the rock shaft, pivoted link and lever connections for each of the slides, an operating lever connected to the link and lever connections for simultaneously operating the slides to move the leaf engaging arms in a direction away from the plate and means for adjusting the arms relatively.

In testimony whereof I affix my signature.

RALEIGH M. DAVIS.