

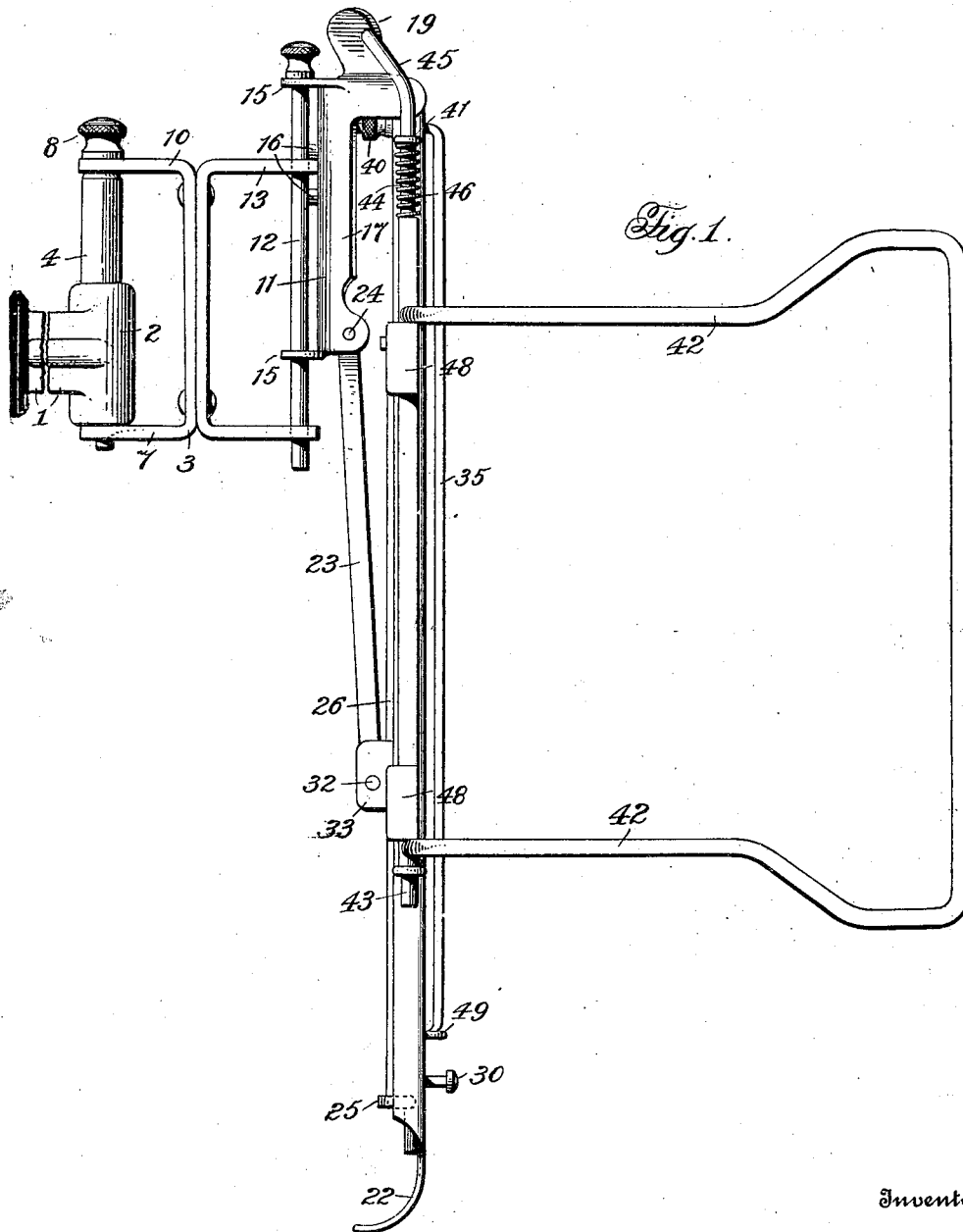
June 26, 1928.

1,674,975

E. R. LUNDIUS

BOOK HOLDER

Original Filed June 24, 1921 3 Sheets-Sheet 1



Inventor:

Witness:

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June 26, 1928.

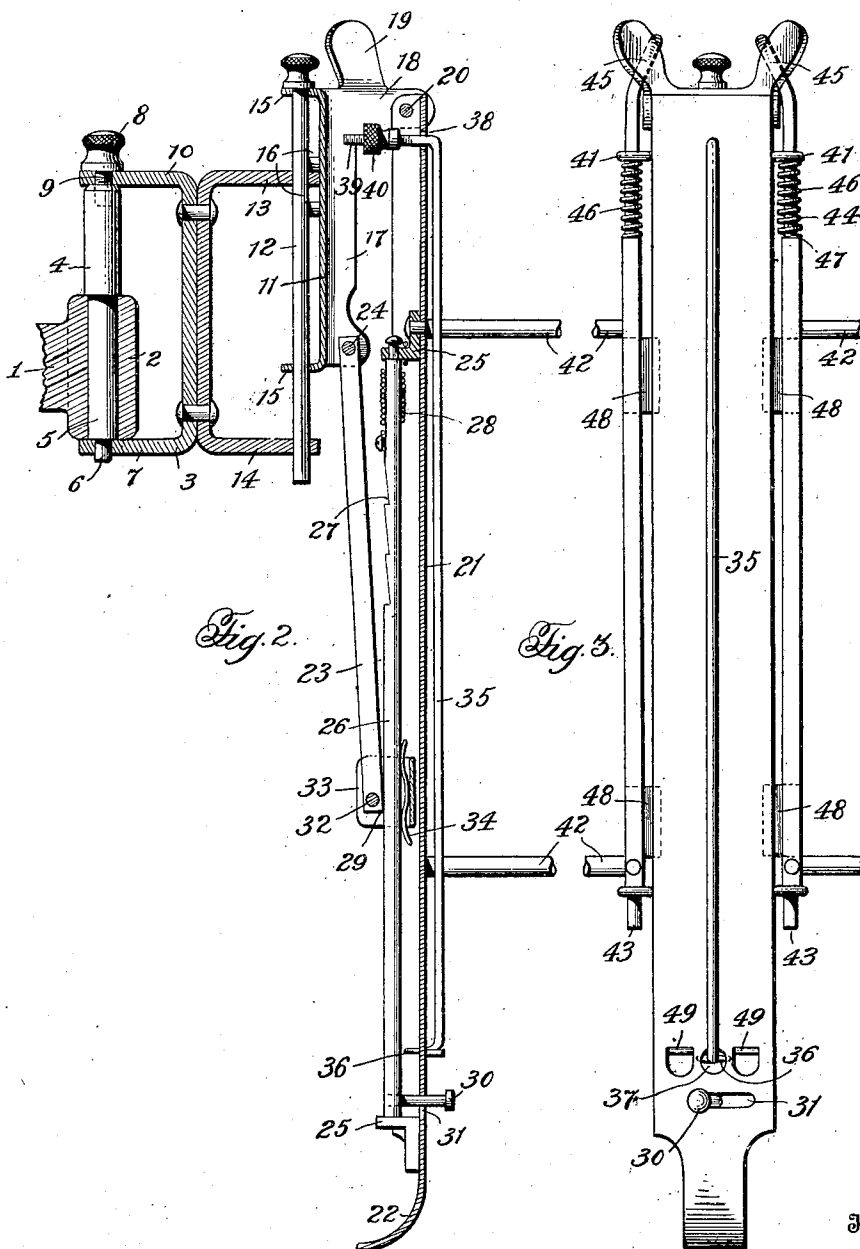
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3 Sheets-Sheet 2



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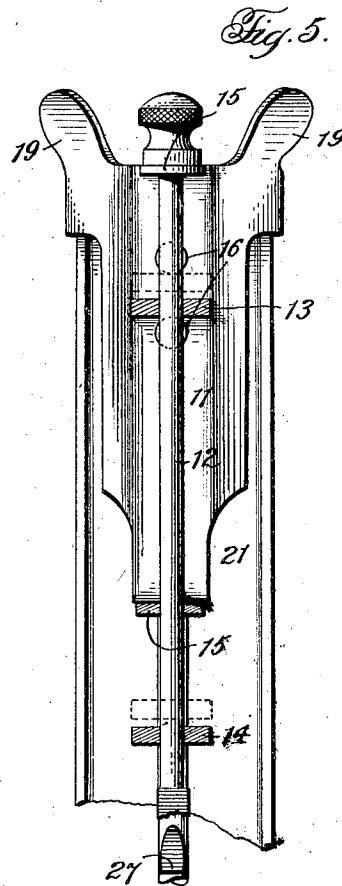
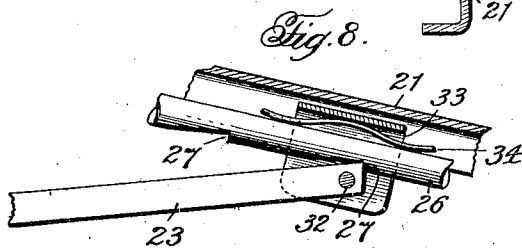
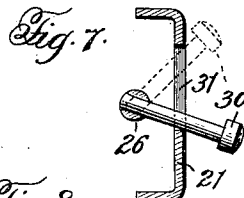
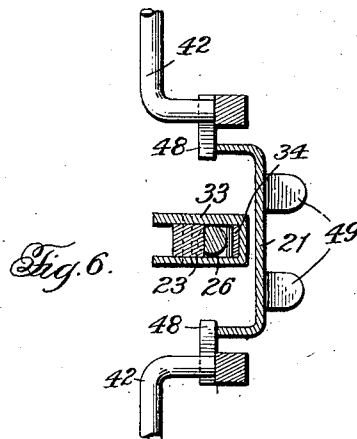
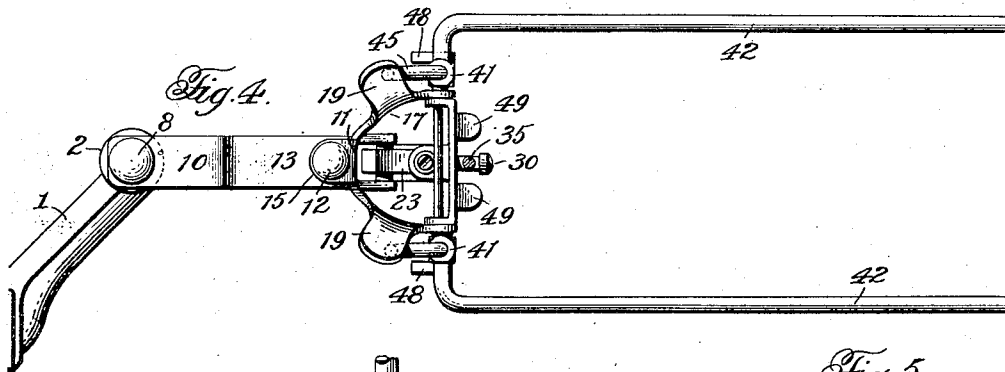
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BOOK HOLDER

Original Filed June 24, 1921

3 Sheets-Sheet 3



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UNITED STATES PATENT OFFICE.

ERIC RICHARD LUNDIUS, OF BROOKLYN, NEW YORK, ASSIGNOR, BY MESNE ASSIGNMENTS, TO MIMOSA G. PITTMAN, OF WASHINGTON, DISTRICT OF COLUMBIA.

BOOKHOLDER.

Application filed June 24, 1921, Serial No. 430,042, Renewed January 8, 1927.

My invention relates to new and useful improvements in a book holder and more particularly to a device of this character adapted for a telephone book or other directory to which frequent reference is made.

The primary object of the invention resides in the construction of the holder in such a manner that it will normally hold the book in vertical position against a desk, wall, or other supporting object, but which may be swung and raised so as to support the book in open horizontal position.

Another object consists in the provision of means for securely supporting the holder in raised position and for quickly releasing the supporting means to allow the holder to drop into its original or vertical position.

A further object resides in a novel form of wing for opening, closing and supporting the book carried by the holder, said wings being detachable so that they may be removed when desired for shipping or for replacing should they become broken.

With the above and other objects in view, which will appear as the description proceeds, my invention consists of the novel details of construction and arrangement of parts, described and illustrated in the following specification and drawings, and while I have illustrated and described the preferred embodiments of the invention, it will be understood that such changes may be made as will fall within the scope of the appended claims.

In the drawings:

Figure 1 is a side elevation.

Fig. 2 is a fragmental vertical section, with parts shown in elevation.

Fig. 3 is a fragmental front view.

Fig. 4 is a top plan.

Fig. 5 is a fragmental rear view with parts shown in horizontal section.

Fig. 6 is a horizontal section through the book rest with portions of the wings shown in plan.

Fig. 7 is a horizontal section through the book rest showing the operating lever for releasing the supporting member, and

Fig. 8 is a detail perspective, partly in section, showing the supporting means.

In the drawings, 1 indicates an arm having the vertically extending sleeve 2 formed at its outer end. This arm is adapted to be secured to a desk, wall or other suitable support by means of wood screws or similar

fastening means and, as more clearly shown in Figure 4, preferably is formed to extend at an angle so as to take up the least possible space. A frame 3 is pivotally connected to the arm 1 by means of the pin 4, said pin having a reduced portion 5 adapted to extend through the sleeve 2 and a further reduced portion 6 adapted to pass through an opening in the lower rearwardly extending arm 7 of the frame. A thumb screw 8 has its threaded portion 9 extending through an opening in the upper rearwardly extending arm 10 of the frame and entering a recess formed in the upper end of the pin 4. By the construction described, it will be seen that the frame 3 is carried by the arm 1 so as to freely swing horizontally and while I have shown the frame as formed of two substantially C-shaped portions, connected together, it will be understood that it might equally as well be constructed in one piece.

A support 11 is connected to the frame 3, by the pin 12, said support being mounted for horizontal swinging movement and for vertical adjustment. The pin 12 passes through openings formed in the upper and lower forwardly extending arms 13 and 14 of the frame and lugs 15 formed on the rear face of the support 11. Vertically spaced projections 16 are formed on or secured to the rear face of the support 11, as more clearly shown in Figures 1 and 2, of the drawings. These projections 16 are used for vertically adjusting the support 11 with respect to the frame 3. Normally, both projections will be positioned between the arms 13 and 14 of the frame, but if it is desired to raise the support, with its associated parts, the projections will be positioned as shown in Figs. 1 and 2, with the upper projection engaging the top of the arm 13, the lower projection limiting the movement of the support when the book-rest 21, to be later described, is raised. The raising of the support is sometimes necessitated by unusually thick desk tops and by providing the projection 16, allowing the vertical adjustment of the support, the leaf supports, to be later described, will clear the top of the desk, when opened, allowing the book to be swung around to the user without striking the desk. The horizontal swinging movement of the support is limited by the end of the arm 13 contacting with the rear face

of the support. The support 11 is formed with the side flanges 17 and at the top the flanges have the forwardly extending portions 18. Outwardly curved or flared lips 19 are formed on the upper edges of the portions 18 for a purpose to be later described. Pivottally connected to the portions 18, of the support 11, by means of a horizontally extending pin 20 is a book-rest 21 having the lower end rearwardly curved to provide the handle or gripping portion 22. The horizontal pivot pin 20 allows the book-rest to be raised vertically and to be extended in a horizontal position to support the book in a manner to be later described. A bar 23 is pivottally connected adjacent the lower end of the support 11 by the horizontally extending pin 24, the pivoted end of the said bar being received between the sides 17. When the book-rest is lowered into vertical position the bar 23 will also assume a substantially vertical position as more clearly shown in Figures 1 and 2 of the drawings. Vertically spaced angle iron plates or brackets 25 are secured to the rear face of the book-rest 21 and rotatably support, therebetween, a rod 26 having the notches 27 intermediate the ends thereof. The rod 26 is normally positioned, by the coiled spring 28, to have the notches 27 in position to be engaged by the lower edge 29 of the bar 23, or in other words the notches will normally face towards the rear. The coiled spring 28 surrounds the rod 26 adjacent the upper end and one end thereof is connected to the uppermost angle iron bracket 25 and the opposite end is connected to the rod so that when the rod is rotated by the lever 30, extending through the horizontal slot 31 in the book-rest 21, it will be placed under tension to return the rod to its original position when the lever is released. Pivottally connected adjacent the lower end of the bar 23, by the pin 32 is the yoke 33 which surrounds the rod 26 in such a manner that the edge 29 of the bar will contact with and ride on the rod. The edge of the bar is held tightly against the rod by the leaf spring 34 received between the rod and face of the yoke as more clearly illustrated in Figs. 2 and 8. When the yoke is slid upwardly on the rod the spring will cause the edge of the bar to engage the notches 27 and thereby hold the book-rest in an inclined or horizontal position.

A rod 35 is provided for connecting the book, not shown, to the book rest. The lower end of the rod is bent at right angles and is provided with an enlarged end 36 of greater diameter than the opening 37 through which the right angle portion of the rod passes. The upper end of the rod is also bent at right angles and passes through the opening 38 and is screw threaded, as shown at 39, to receive the thumb nut 40. It will

be understood that the rod 35 is placed between the leaves of the book and tightened by the thumb nut 40. The rod will be connected to the book rest by first inserting the threaded end 39 through the opening 37 and then through the opening 38.

A pair of vertically spaced eyes 41 are formed on or secured to each side edge of the book rest 21 for pivottally connecting the wings 42 to the book rest. The wings 42 are formed with the lower reduced extensions 43 adapted to be received in the lowermost eyes 41 and the reduced extensions 44 adapted to be received in the uppermost eyes 41. The upper ends of the extensions 44 are bent at an angle, as shown at 45, to engage behind the lips 19 as more clearly shown in Figures 1, 3 and 4 of the drawings. The wings are swung by the angular extensions 45 engaging with the said lips as the book rest is raised and lowered and it will be understood that the wings engage the outer faces of the book. When the book rest is in a vertical position, the book will be held closed but when raised to horizontal position the wings will also assume a horizontal position and support the book in open position. Coiled springs 46 encircle the extensions 44 of the wings between the shoulders 47 and upper eyes 41 and these springs hold the wings in proper position with respect to the eyes, at the same time allowing the wings to be disconnected when desired. Plates 48 are secured to the rear edge of the wings and when the wings are in horizontal position will engage the edges of the book rest, as more particularly shown in Figures 3 and 6, and support the wings. Ears 49 are struck from the book rest, adjacent the rod end and engage the lower end of the book to help support the same.

From the above detail description it is thought that the construction and operation of my book holder will be clearly understood and it will be seen that I have provided a device, as previously stated, particularly adapted for normally holding a book in vertical position against a desk, wall, or other support, but which may be raised to open and support the book in horizontal position for reference. The arm 1 extending at an angle, from the support, takes up little room and allows the frame 3 to be swung against the support with the book rest extending vertically, with the book closed, and parallel with the support. When it is desired to refer to the book the frame 3 is swung horizontally away from the support and the handle 22 of the book rest, is grasped and the book rest raised vertically. The raising of the book rest will slide the yoke 33 on the rod 26 and the edge 29 of the bar 23 will engage in the notch 27. The leaf spring 34 will hold the edge 29 within the

notches until the lever 30 is swung horizontally to rotate the rod 26. The rotation of the rod 26 will disengage the edge 29, of the bar 23, from the notches 27 and allow the book rest to be swung downwardly into a vertical position. It will be noted that by having a plurality of notches 27 the book rest may be supported in an inclined position or in a horizontal position. As the book rest is raised towards a horizontal position the wings 42 will swing open thereby allowing the book to open and be supported by the wings. As the book rest is lowered towards a vertical position the angular extensions 45 engaging the curved or flared lips 19 will automatically swing the wings to a closed position thereby closing the book. The book is connected to the book rest by the rod 35 which engages between the leaves of the book and is tightened by the thumb nut 40 on the threaded portion 39. Should it be desired to entirely remove the rod 35 the thumb nut 40 is removed and the right angle threaded extension 39 is withdrawn through the opening 38. The rod may then be swung to be pushed through the lower opening 37. The enlarged end 36 on the lower end of the said rod 35 prevents this end from being withdrawn through the opening 37. When the wings are swung into open horizontal position the plates 48 will engage the under edge of the book rest and limit the swinging movement of the wings as well as furnish a support therefor. Should it be desired, for any reason, to disconnect the wings the same may be raised against the tension of the springs 46. This will allow the rod extensions 43 to be removed from the lowermost eyes 41 and then the upper extensions 44 may be lowered and withdrawn from the uppermost eyes. The coiled springs 46 also tend to normally properly position the extensions in the eyes and prevent accidental displacement thereof. The projections 16 on the rear face of the support 11, being vertically spaced allow for a slight vertical adjustment of the support with respect to the frame 3.

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

1. A device of the character described, comprising a support, a book rest pivotally connected to the support, a ratchet rod rotatably connected to the book rest, a bar connected to the support and adapted to engage the ratchet rod for holding the book rest in adjusted position, and means for rotating the ratchet rod for disengaging the bar.

2. A device of the character described, comprising a support, a book rest pivotally

connected to the support, a ratchet rod carried by the book rest, a bar pivotally connected to the support and adapted to engage the ratchet rod, and a yoke pivotally connected to and carried by the bar and surrounding the ratchet rod.

3. A device of the character described, comprising a support, a book rest pivotally connected to the support, a ratchet rod carried by the book rest, a bar connected to the support and adapted to engage the ratchet rod, a yoke connected to the bar and surrounding the ratchet rod, and a spring interposed between the yoke and ratchet rod for normally holding the end of the bar in engagement with the ratchet rod.

4. A device of the character described, comprising a support, a book rest pivotally connected to the support for vertically swinging movement, a ratchet rod rotatably connected to the book rest, a bar having its upper end pivotally connected to the support and its lower end adapted to engage the teeth of the ratchet rod, means for normally holding the end of the bar in engagement with the teeth of the ratchet rod when the book rest is raised, and means for rotating the ratchet rod for disengaging the end of the bar from the teeth to allow the book rest to be lowered.

5. A device of the character described, comprising a support, a book rest pivotally connected to the support for vertical swinging movement, a ratchet rod rotatably connected to the book rest, a yoke slidably mounted on the ratchet rod, a bar having its upper end pivotally connected to the support and its lower end pivotally connected to the yoke in position to engage the teeth of the ratchet rod when the book rest is raised, a spring interposed between the yoke and ratchet rod for normally holding the lower end of the bar in engagement with the ratchet rod, and means for rotating the ratchet rod for disengaging the bar from the teeth to allow the book to be lowered.

6. A device of the character described comprising a frame including vertically spaced arms, a support connected to the frame for horizontal swinging movement and vertical adjustment, vertically spaced projections extending from the support, said projections normally received between the spaced arms of the frame but adapted to be positioned to straddle the upper arm to elevate the support, the projections being spaced allowing a vertical movement of the support with respect to the frame, and a book rest connected to the support.

In testimony whereof I hereunto affix my signature.

ERIC RICHARD LUNDIUS