Oct. 3, 1933. D. BUSBY 1,928,926

BOOKHOLDER

Filed Oct. 31, 1932 2 Sheets-Sheet 1

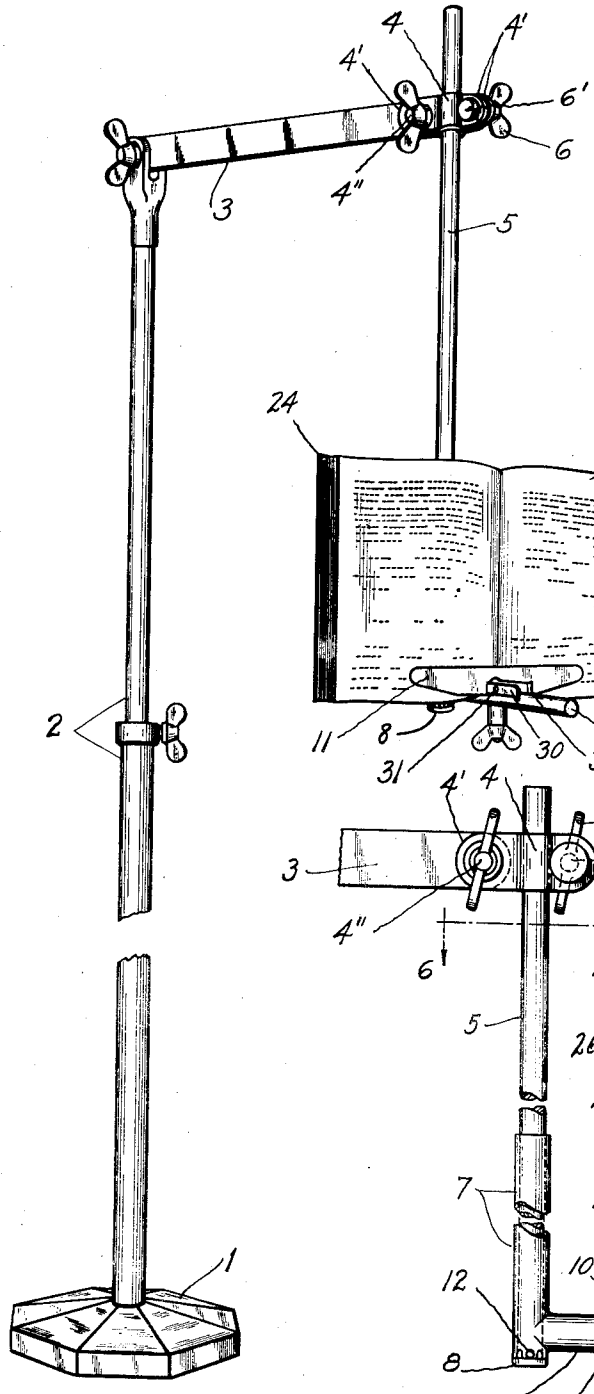


Fig. 1

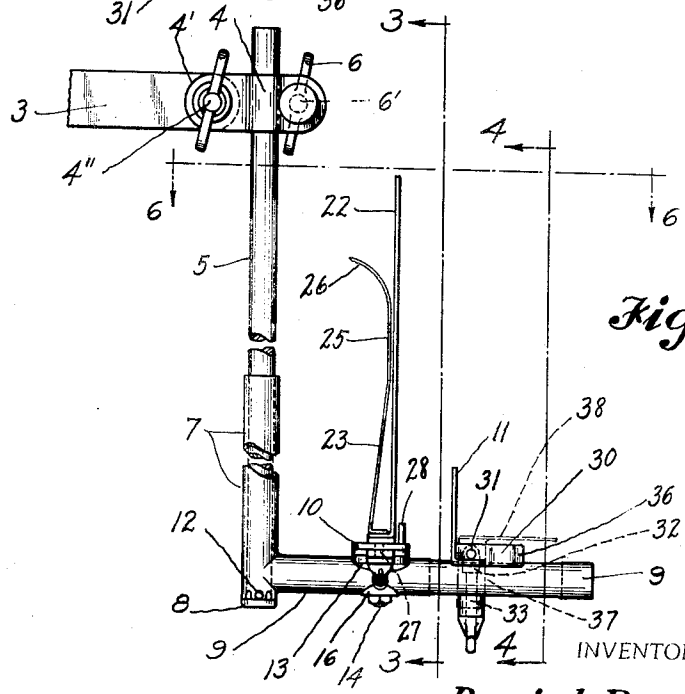


Fig. 2

INVENTOR.

Daniel Busby

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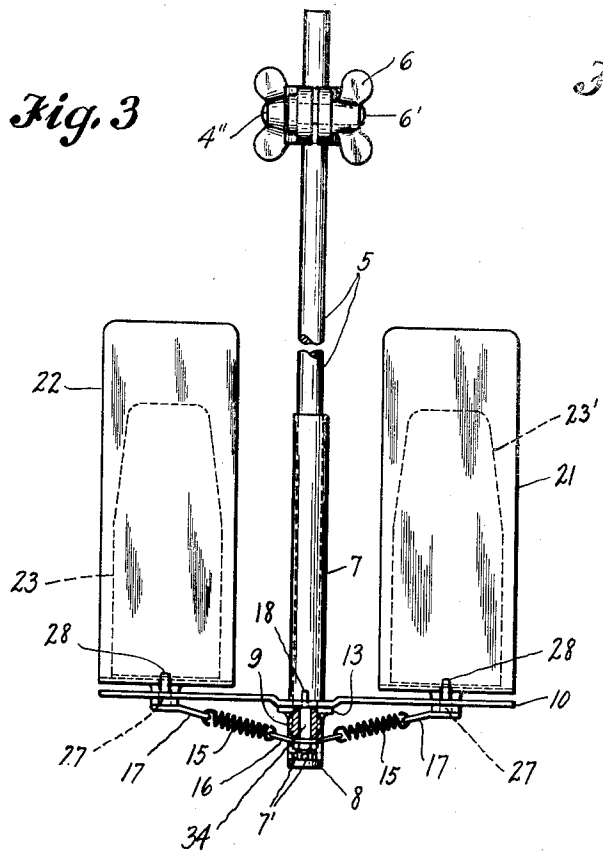
ATTORNEY.

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Fig. 3



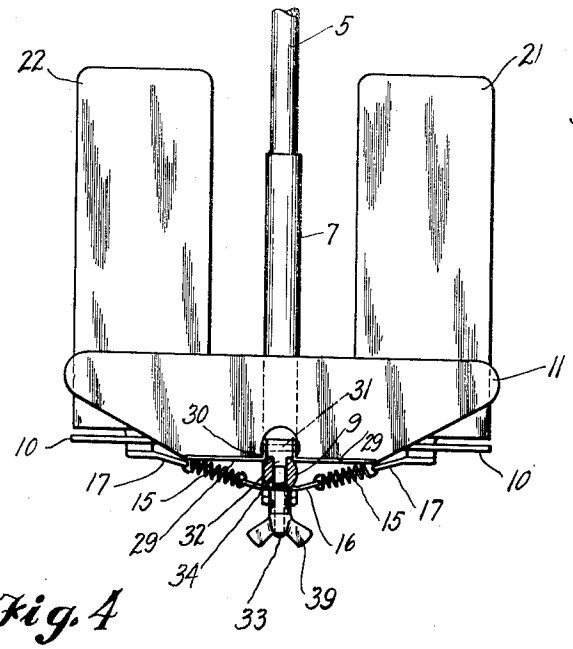
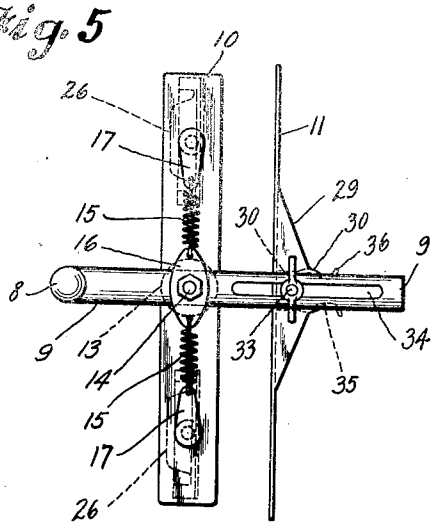


Fig. 4

Fig. 5



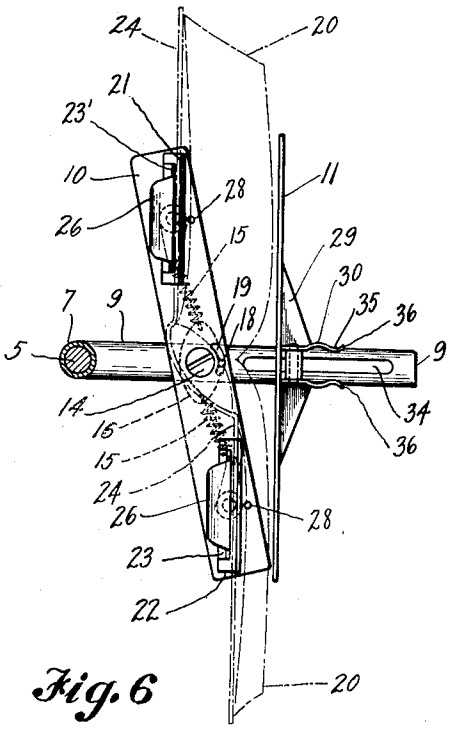


Fig. 6

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1,928,926

UNITED STATES PATENT OFFICE

1,928,926

BOOKHOLDER

Daniel Busby, Seattle, Wash.

Application October 31, 1932. Serial No. 640,444

3 Claims. (Cl. 45—86)

This invention relates to book holders, and particularly to holders for supporting books in open positions at various elevations and angles.

One object of the invention is to provide a support for holding a book open and conveniently for reading, for persons in various positions, as when reclining for rest, or during convalesence etc.

Another object is to provide a support for holding a book open with the oppositely exposed pages parallel, or on the same plane and distance from the reader's eyes, regardless of the uneven number of pages on either side of the place where the book is open, or from the line of fold.

A further object is to provide such a book holder with a supporting base plate pivotally mounted for swinging at varying angles in a horizontal plane, with upstanding book back guides pivotally mounted above the opposite ends of the base, and resiliently connected to be each moved automatically with the fronts thereof normally parallel to the front of the reader regardless of the angle of the supporting base.

A still further object is to provide a bracket bar for holding such base plate, provided with a hinged plate adjustably attached to such bar in front of such base plate, and adapted to be turned upward across the lower margin of the book pages, to retain them in open parallel position for reading and to be turned down when the pages are to be turned over.

With these and other objects, as may be more particularly described herein, I have illustrated my invention by the accompanying drawings, of which:

Figure 1 is a perspective view of the complete holder with a book held open thereon,

Figure 2 is a side elevation with parts removed,

Figure 3 is a front elevation, taken on lines 3—3 of Figure 2,

Figure 4 is a front elevation taken on lines 4—4 of Figure 2,

Figure 5 is a bottom plan, and

Figure 6 is a top plan with a book in position opened at one side of its center, with its exposed pages on same plane against the holding plate, and the covers of the book on different planes between the upstanding cover guides, the base plate and upstanding guides in oblique positions with each other. (This figure is taken on line 6—6 of Figure 2)

Like numerals on the different figures represent like parts.

Numeral 1 is any portable foot piece for retaining the holder in upright position where desired, with a supporting adjustable post 2 extending up therefrom. An adjustable arm 3 extends outward from the top of the post, and a link clamp 4 is adjustably attached to the outer end of this arm by hinge jaws 4' and binding bolt 4''. An elevation rod 5 is slidably mounted through the clamp and is tightened and held in any desired position by a binding nut 6 and bolt 6'.

A sleeve 7 is rotatably mounted on the lower portion of the rod and supported by a flange 8 on the end thereof. Extending at right angles from the sleeve is a bracket bar 9 for supporting the swinging base plate 10, together with hinged page holding plate 11.

The bracket bar is radially maintained at any desired angle from the rod by means of a plurality of notches 7' around the lower end of the sleeve 7, which fit over a dowel pin 12 affixed above the flange 8. In order to shift the position of the bracket, the operator raises and turns the sleeve until the desired notch contacts the pin 12. This may be easily accomplished by a person while reclining, or with only one hand available therefor.

A boss 13 is provided on the upper edge of the bracket, upon which is rotatably mounted the base plate 10, with a pivot bolt 14. The plate 10 is normally held at right angles across the bracket by oppositely positioned springs 15, 15. The inner ends of the springs attached to outer ends of a yoke 16 affixed to lower end of the bolt 14. The outer ends of the springs are attached to respective inner ends of short levers 17—17, near the outer ends of the base plate. Thus the swinging of the base on its pivot will stretch the springs and tend to draw the plate automatically to its position of right angles with the bracket. The distance of the swing is also limited by a pin 18, from the boss through a slot 19 in the base.

In order to hold any desired book as 20 in an open position upon the base plate 10, suitable upstanding front guides 21, 22, preferably flattened, are provided near the outer ends of said plate. Behind said supports are resilient upstanding guides 23—23, spaced at their bases from the front guides sufficiently to permit a book cover 24 to be inserted between the same.

The upper portion of the resilient guides tend to impinge against the front guide as at 25 and thereby retain book covers of various thickness in position. The tips of the resilient guides are curved backward as 26, to permit book covers to be readily inserted between the two guide members. These duplicate pairs of flattened

guide supports are affixed upon pivot pins 27, 27 which are rotatably mounted through the ends of the base plate. On the lower ends of said pins 27 are connected the outer ends of said spring levers 17, whereby the fronts of the book back guides are normally retained in same line as the base plate. But when the book backs are placed in position between the oppositely mounted back guides, and a greater number of pages of the book are open on one side, as seen in Figure 6, then the thicker side may be easily pressed backward to bring the opposite side pages on same plane. The springs permit said back guides to turn in an oblique position to the base plate as shown in Figure 6. When the pages of the book are turned the guides automatically resume new positions to conform with changed thickness of the open book sides, so that while the two open or front pages are held in the same plane, the duplicate sets of guides are on different planes. Stop pins 28 are preferably provided through the base 10 to limit the amount of turning of the holders to thickness of ordinary books to be held. In order to positively maintain said open pages on the opposite sides of the book in the same plane, I provide said movable holder or plate 11 therefor. This plate is hinged at right angles with and over the bracket 9 and is readily turned up against the lower margins of the pages to hold them open, and is readily turned down when pages are to be turned thereover. The lower outer edge 29 of this plate 11 is bifurcated and bent outward, and again bent upward centrally to provide two resilient spaced legs 30, 30. A hinge pin 31 is attached between these legs and rotates in a holding block 32. This latter is mounted on top of the bracket 9 and is adjustably controlled or held in any desired position along the bracket by a binding bolt 33 slidably mounted through a slot 34 in said bracket. Said two legs 30 are extended forward and astride the bracket 9, and bent inward to provide holding knees 35, and the tips 36 flared outward to slide over the bracket when manual pressure is applied. When the page holding plate is turned up as shown in full lines, the knees spring inward and rest on top edges of the bracket with sufficient tension to maintain the plate upraised and prevent pages of the book from voluntarily turning. When the reader wishes to turn a page the plate is easily tipped down or forward by his finger, and the legs then slip down below the bracket, as shown by dotted lines 37, with the dotted plate 38, in Figure 6. A binding nut 39 threaded on the lower end of binding bolt 33 is readily used to tighten the block 32 at any desired position over the slot, to suit the thickness of the book to be held.

In cases when it is desired to hold soft covered books or magazines with wide pages, it is sometimes advisable to substitute holding guides, formed of wire loops of any suitable size in lieu of the narrower guide plates shown in the drawings.

It will be readily understood from the foregoing description, that this book holder is adapted for holding books open at a great many varying positions including among others one so inverted that a reader may peruse a book held above him thereby while he is lying prone on his back.

It will also be understood that the location of front page holding plate upon the bracket is first adjusted to the thickness of any book, and the reader thereafter simply turns the pages as he reads, and the springs automatically press the front two or exposed open pages against the front holder and on the same plane, regardless of the greater number of pages folded on either side of the center of the book.

Having described my invention, I claim as new for Letters Patent:

1. A book holder comprising an adjustable supporting rod, a bracket bar rotatably supported at various angles to and by the rod, a base plate pivotally mounted across the bar adapted to swing at various angles thereover for supporting books thereon, a plurality of upstanding guide members for holding backs of books and mounted on pivots at the opposite ends of the base plate, levers attached to the lower ends of the last described pivots, and springs connected between the levers and the bracket bar adapted to automatically maintain the base plate and guides at right angles with the bracket bar, and to permit the two front open pages of the book to be held on the same plane with each other, while a larger portion of the pages of the book are opened on one side of the center thereof.

2. A book holder, with a bracket arm supported by an adjustable rod, a base plate for holding books pivotally attached across the top of the bracket and adapted to be swung in various positions across the same, a folding page plate slidably mounted across the bracket in front of the base plate, binding means for retaining the page plate at various positions along the bracket, resilient legs extending from the lower edge of the page plate astride the bracket and adapted to maintain the page plate in an upright position for holding pages of a book open, and to be slid down over the sides of the bracket when the pages are to be turned.

3. In combination an adjustable book holder comprising a portable foot member, post and cross arm, for supporting a book in a desired location, a link clamp adjustably attached to the outer end of the arm, and a supporting rod slidably and rotatably connected through the clamp, a bracket bar adjustably mounted on the rod, and adapted to be moved to various angles therewith, a base plate for supporting books pivotally mounted upon and across the bracket, a plurality of upstanding guides for holding book backs, pivotally mounted upon the outer ends of the base plate, resilient means to permit the base plate and guides to assume various angles across the bracket as the pages of the book are increased from one side to the other, a hinged plate, adjustably connected to and across the bracket in front of the base plate, and adapted to be upturned perpendicularly for holding open pages of a book, and to be turned down horizontally to permit the pages of the book to be turned, and also to maintain the open pages on the opposite sides of the book on the same plane in front of a reader.

DANIEL BUSBY.