Sept. 7, 1937. G. H. DAVIS 2,092,665

ADJUSTABLE BOOK HOLDER

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Fig. 1.

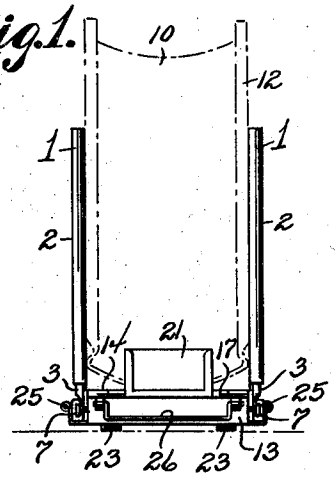


Fig. 2.

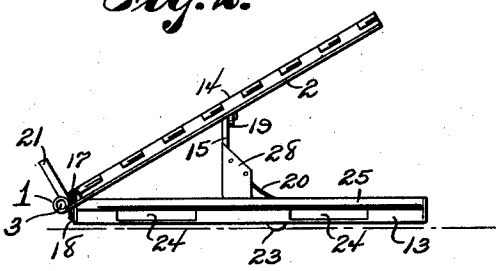


Fig. 3.

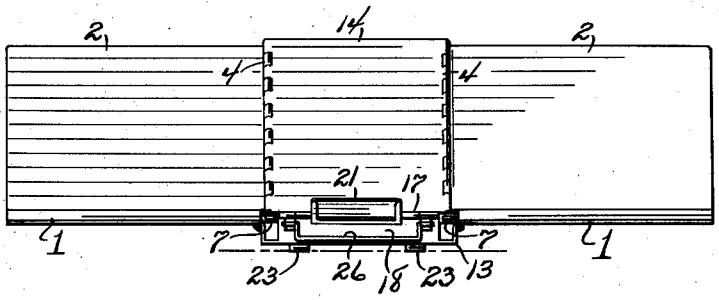
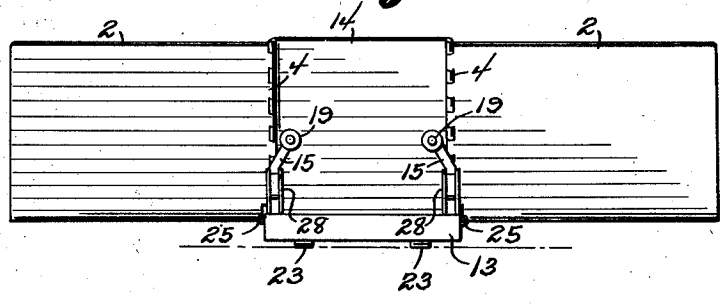


Fig. 4.



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Fig. 5.

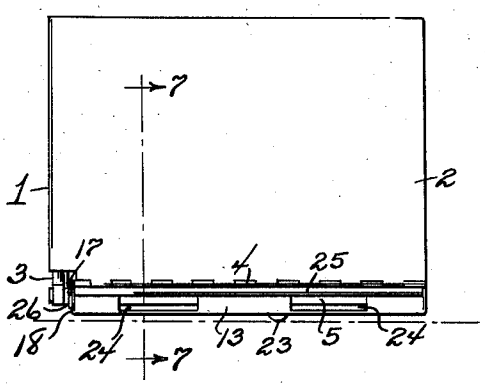


Fig. 6.

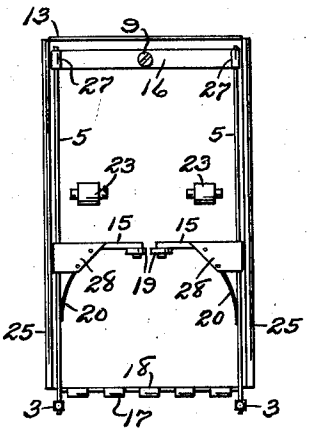


Fig. 7.

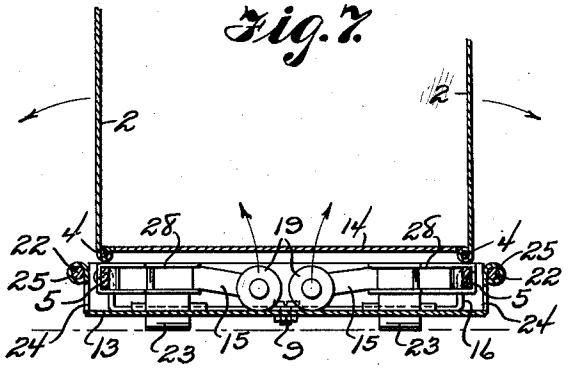
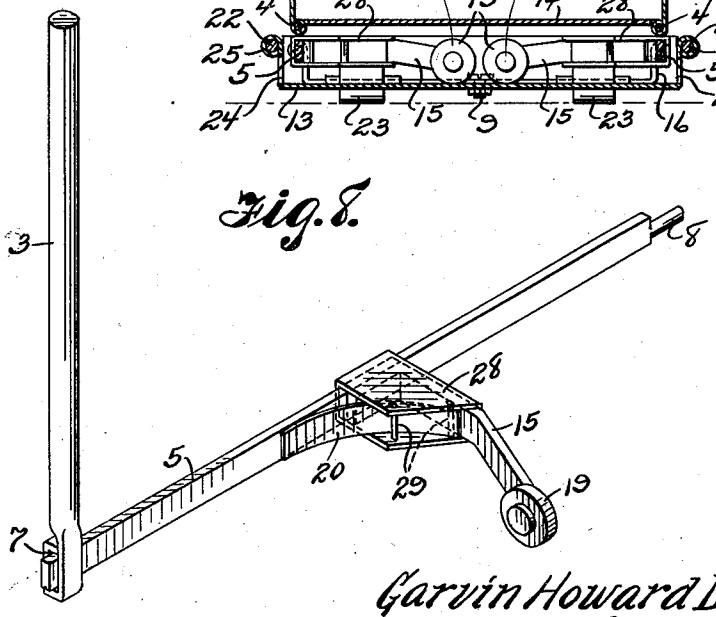


Fig. 8.



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ADJUSTABLE BOOK HOLDER

Garvin Howard Davis, Calico Rock, Ark.

Application June 15, 1935, Serial No. 26,794

4 Claims. (Cl. 45—80)

The invention relates to improvements in adjustable book holders, and has as one of its objects to provide a device for holding the book while in use at a predetermined angle of elevation for convenience of the user.

A further object of the present invention is to provide an adjustable book holder of the above mentioned character, wherein means is provided to keep the book firmly but gently closed and resting on its bound edge while not being used open.

A further object of the present invention is to provide an adjustable book holder of the above mentioned character, which may be easily carried from place to place with the book inserted therein.

A further object of the present invention is to provide an adjustable book holder of the above mentioned character, wherein means is provided for moving same over a plane surface with minimum of effort.

A further object of the present invention is to provide an adjustable book holder of the above mentioned character, that will not materially increase the filing space of the book while in the holder, yet greatly decreases table space while out of filing.

A further object of the present invention is to provide an adjustable book holder of the above mentioned character, which will, at all times be positive and efficient in its operation; is simple in construction, inexpensive, strong and durable, and well adapted to the purpose for which it is designed.

Other objects and advantages will become apparent from the following description when taken in connection with the accompanying drawings in which:

Figure 1 is a front view of the holder in closed position with a book shown therein, in dotted lines.

Figure 2 is a side elevation of the holder in open position with the book removed.

Figure 3 is a front view of the holder in open position.

Figure 4 is a rear view thereof.

Figure 5 is a side elevation of the holder in closed position.

Figure 6 is a top plan view of the supporting or table base with the book receiving means removed.

Figure 7 is a sectional view taken approximately on line 7—7 of Figure 5, looking in the direction of the arrows.

Figure 8 is an enlarged detail perspective view illustrating one of the elevating means for the book and which is operable upon opening and closing the book for disposal in operative and inoperative positions.

Referring to the drawings in detail, the reference numeral 2 indicates the side wings of my holder and which are attached by hinge joints 4, to the opposite longitudinal edges of a book binding back receiving means or base 14, it being noted that the wings receive the cover plates 12 of the book and the base 14 receives the binding back, as shown in Figure 1. The base 14 is preferably of a size to fit the binding back and is hinged as at 17 to the forward upturned flanged edge portion 18 of the table or supporting base 13, the latter being flanged about its edges, as shown. The front edge of each of the side wings 2 is rolled upward to form a tube 1, that has mounted therein a rod 3, and the tubes act as abutment means or stops for the cover plates 12. The rods 3 extend inwardly beyond the wings 2 and the inner ends thereof are shaped to provide rectangular slots 7 that have mounted therein for fitting association therewith, the forward ends of rectangular rods or bars 5, as clearly shown in Figure 8. The bars 5 extend rearwardly along the opposite sides of the supporting or table base 13 and are provided with rounded rear ends or studs 8 projecting off-center therefrom, as best shown in Figure 8. The bars 5 are mounted on the table base and for that purpose I provide a bracket strip 16 having bearing ends 27 rotatably receiving the studs 8, the bearing strip being fixed by screw means or the like 9 to the table base, as best shown in Figure 6. From that structure, it will be seen that upon movement of the wings on their hinges, the rods 3 will cause the bars 5 to rotate for a purpose which will be later apparent.

Slidably mounted for longitudinal movement on the bars 5 are bracket frames 28 which carry arms 15, the latter having right angle bent inner ends spaced from the closed outer sides of the bracket frames to provide a guideway with the bars 5 mounted therein as clearly shown in Figure 8. The outer portions of the arms are bent at a downward inclination from their juncture with the bracket frames, and have journaled in the outer ends thereof rollers 19 which are engageable with the under surface of the base 12 to elevate the same when the wings are being disposed to open position and from Figure 2, it will be seen that the arms support the base in elevated position and at an inclination with respect to the table base.

The arms **15** are preferably held within the bracket frames **28** by leaf springs **20** that have one of their ends bearing against the bars **5**, and their opposite ends against the arms, and the springs are held accordingly by pins **29** bridging the spaced parallel portions of the frames. The springs likewise hold the arms in their adjusted positions, due to the pressure thereof against the bars. The side flanges of the supporting or table base **13** have slots **24** arranged longitudinally therein whereby ready access may be had to the arms **15** for adjusting them on the bars **5**, by moving the bracket frames **28** thereon, and the side flanges have their upper ends rolled upon themselves inwardly to provide tubes **25** which are reinforced by rods **22**, and these tubes can act in the capacity of handles, as it will be obvious from Figure 7, that the fingers of the user can be engaged with the underside of the tubes **25** to carry the holder and its book from place to place.

Journaled to the supporting or table base **13** and preferably adjacent to the transverse center thereof, is a pair of wheels or rollers **23**, which extend below the base **13** for engagement with a table or the like, to facilitate the movement of the holder and its book, as will be apparent upon inspection of Figure 7. I likewise employ a handle **26** to facilitate the movement of the book and its holder, and the handle is shown as being bail shaped and pivoted to the forward flange of the base.

The forward flange has likewise secured thereto a title card receiving frame **21**, which of course is to designate the particular book within the holder.

From the above description and disclosure of the drawings, it will be obvious that I have provided a book holder, which is capable of raising the book at an inclination with respect to a table or the like, and supporting the same accordingly, so that the book will be in a convenient position for reading, and that action is accomplished merely by opening the book received in the holder, as when the book is open, the wings 2 are moved on their hinges which carry the rods **3** and as the latter are secured to the bars **5**, which carry the arms **15**, the arms will contact the base **14**, through the rollers **19** and thereby elevate the base, the wings and consequently the hook. When the book is closed, the reverse action takes place. It is apparent, that the elevation of the book can be varied, merely by moving the arms **15** through the medium of the frames **28**, on the bars **5**.

It is thought from the foregoing description that the advantages and novel features of the invention will be readily apparent.

It is to be understood that changes may be made in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

What I claim is:

1. A book holder comprising a supporting base, a binding back base hinged at one end to one end of the supporting base for movement at an inclination with respect thereto, side wings hingedly secured to the binding back base and movable toward and away from each other and cooperating with the binding back base to receive a book thereon, abutting means on the side wings for the book, means mounted for rotation on the supporting base, arms carried by the rotating means and engageable with the binding back base to raise and lower the same, and means carried by the wings and connected to the rotating means to actuate the latter upon opening and closing the book.

2. A book holder comprising a supporting base, a book binding back base hingedly secured to the supporting base for movement at an inclination with respect thereto, side wings hingedly secured to the opposite sides of the binding back base for movement toward and away from each other, means mounted for rotation on the supporting base, means adjustably secured to the rotating means for movement thereby and including rollers engageable with the binding back base for raising and lowering the same, and means secured to the side wings and connected to the rotatably mounted means for operating the roller carrying means.

3. A book holder comprising a wheeled supporting base, a book binding back base hingedly secured thereto for movement at an inclination, side wings for receiving the cover plates of a book and cooperating with the binding back base to accommodate the book, abutting means for the book at the forward ends of the side wings, bars mounted for rotation on the supporting base, spring pressed arms slidably mounted on the bars for adjustment thereon and engageable with the binding back base to elevate and lower the same, rods included in the abutting means and secured to the bars for rotating the same to move the arms to operative and inoperative positions upon movement of the side wings, a handle for the holder and a book title frame therefor.

4. A book holder comprising a wheeled supporting base, a book binding back base hingedly secured thereto for movement at an inclination, side wings for receiving the cover plates of a book and hingedly secured to the book binding back base for cooperation therewith to accommodate the book, tubes formed on the forward edges of the wings and providing abutting means for the book, bars mounted for rotation on the supporting base, arms slidably connected to the bars for adjustment thereon, spring means for the arms and engageable with the bars for holding the arms in adjusted positions with respect thereto, rollers journaled on the arms and engageable with the binding back base to elevate and lower the same, and rods mounted in the tubes and secured to the bars for rotating the same to move the arms to operative and inoperative positions upon movement of the side wings.

GARVIN HOWARD DAVIS.