

E. R. LUNDIUS.

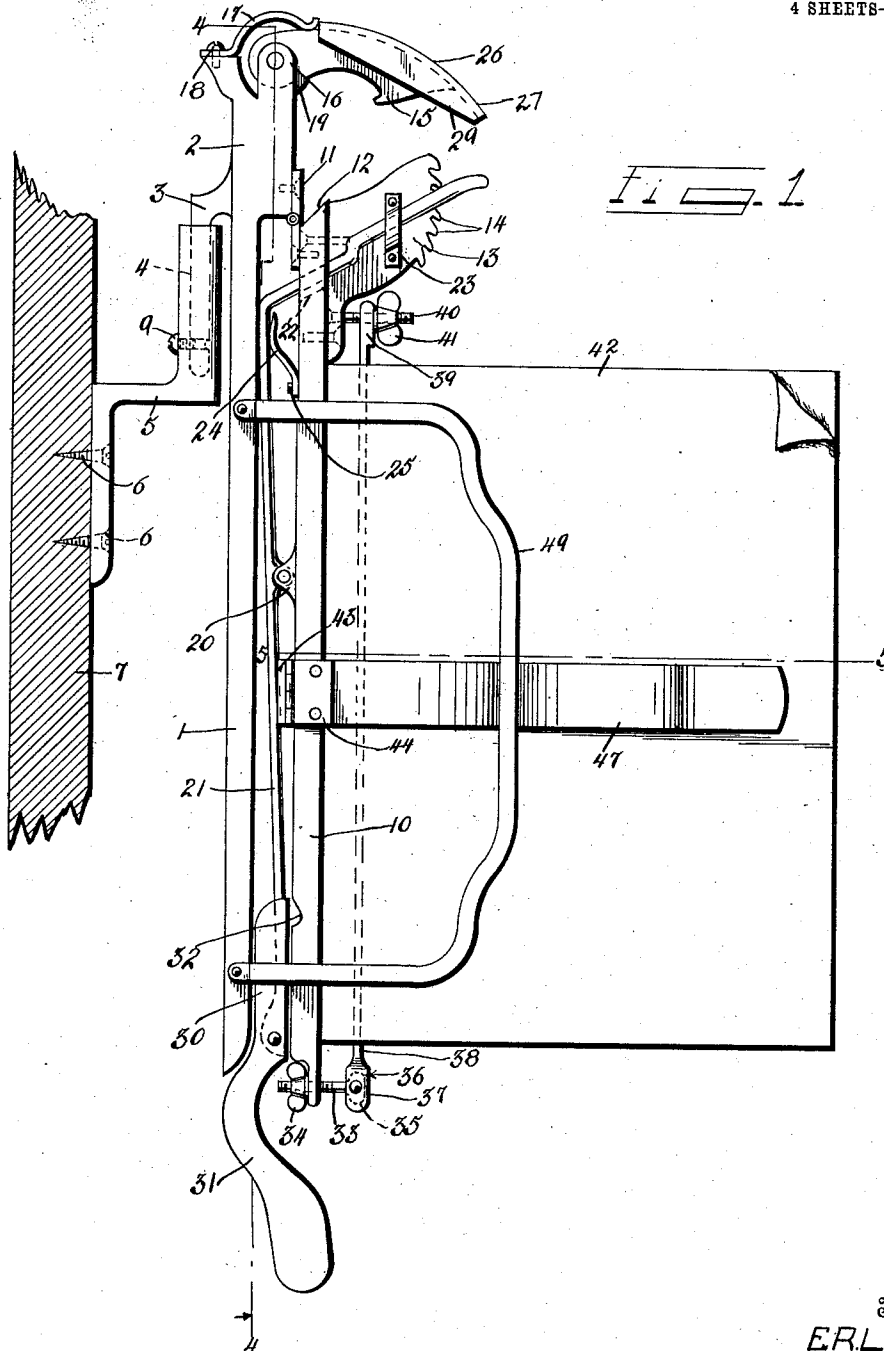
BOOK HOLDER.

APPLICATION FILED JUNE 22, 1911.

1,021,614.

Patented Mar. 26, 1912.

4 SHEETS-SHEET 1.



Witnesses
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R. H. Woodman

Inventor
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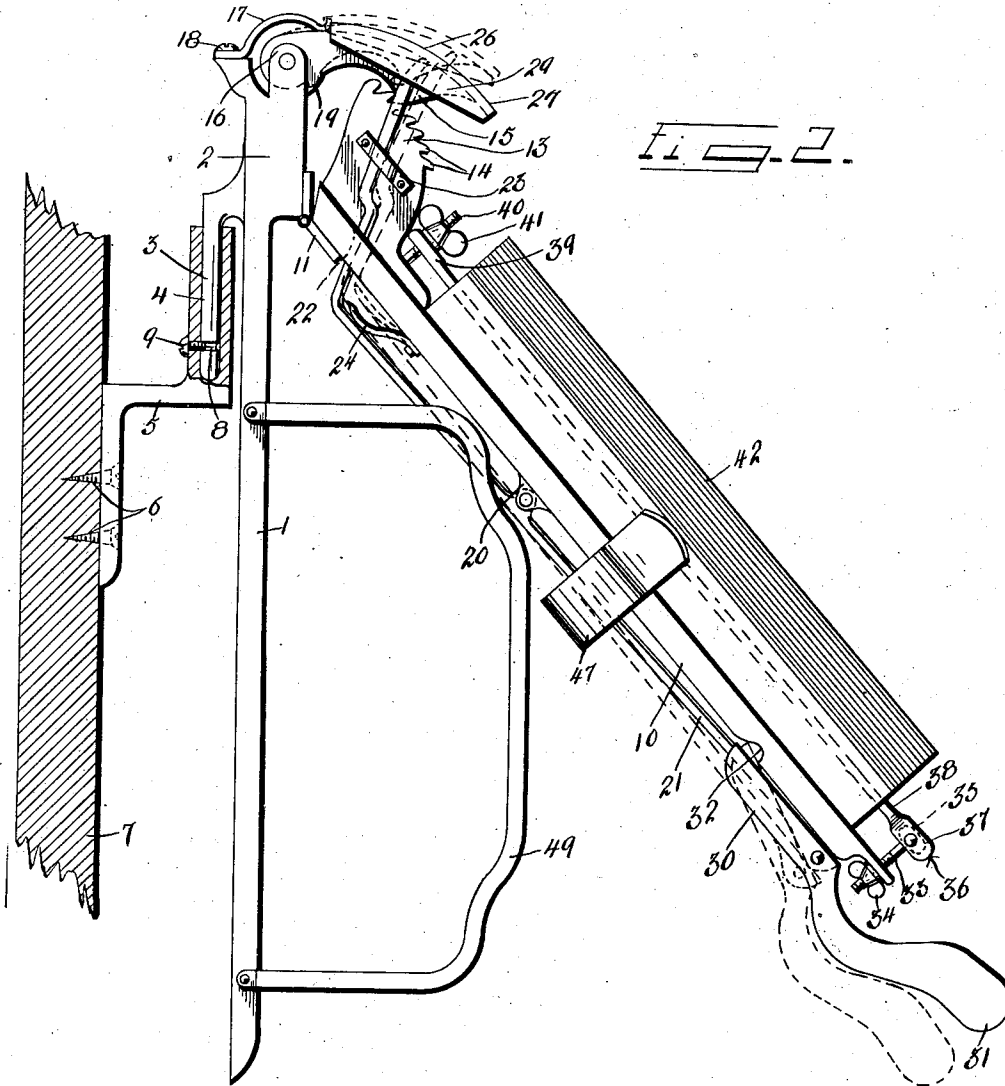
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4 SHEETS-SHEET 3.

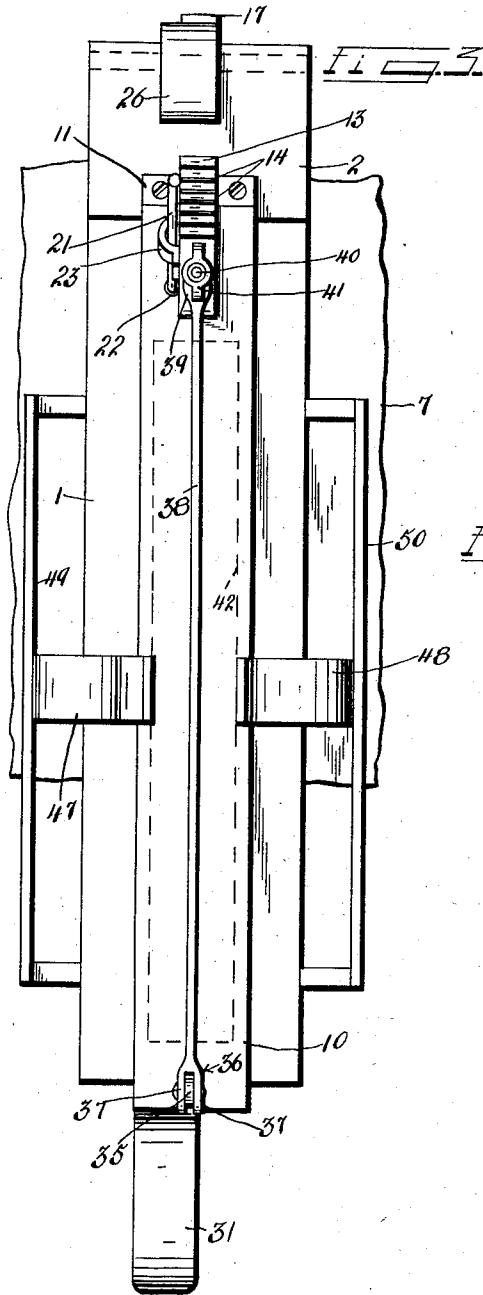
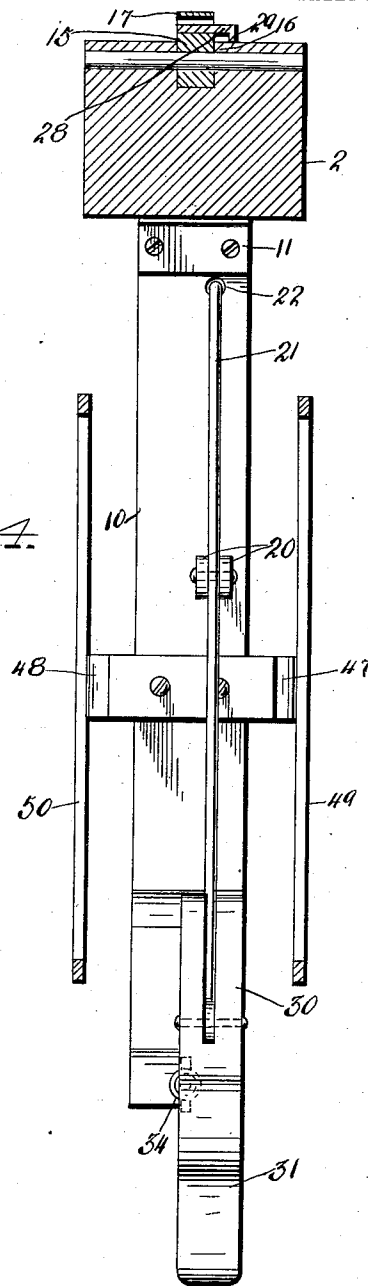


Fig. 4.



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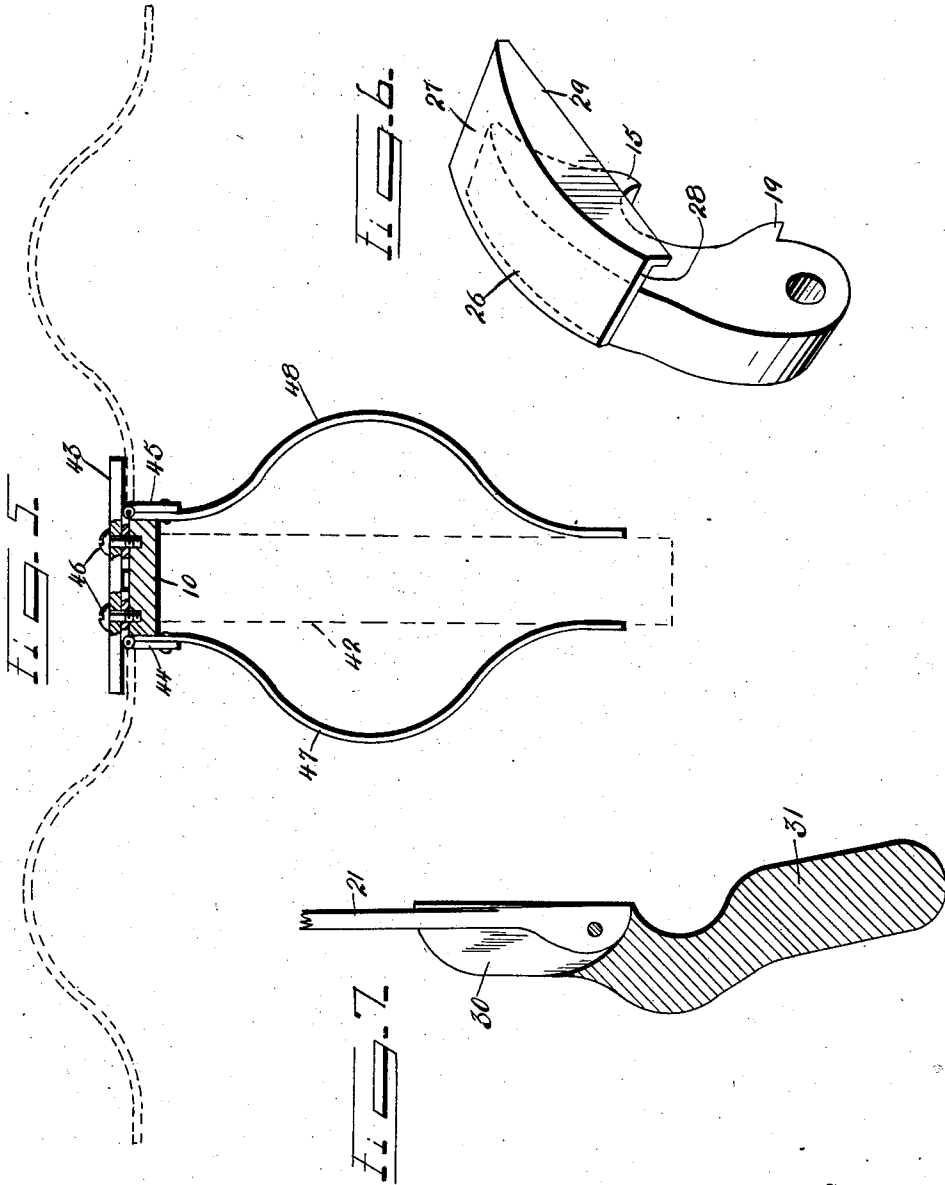
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4 SHEETS—SHEET 4.



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UNITED STATES PATENT OFFICE.

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BOOK-HOLDER.

1,021,614.

Specification of Letters Patent. Patented Mar. 26, 1912.

Application filed June 22, 1911. Serial No. 634,711.

To all whom it may concern:

Be it known that I, ERIC R. LUNDIUS, a citizen of the United States, residing at Seattle, in the county of King, State of Washington, have invented certain new and useful Improvements in Book-Holders; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to new and useful improvements in book holders and more especially to that type of book holder adapted to hold the book in either closed or open position as desired, and the object of my invention is to improve the construction and increase the efficiency of book holders of the above described character.

A further object of my invention is to provide a book holder in which the book may be held at any desired angle, thereby facilitating the reading thereof.

A further object of my invention is to provide a book holder in which the book when closed is in a normally vertical position and in which the tilting of the book to bring it to the desired angle at the same time causes the opening of the book.

A further object of my invention is to provide a holder in which the swinging of the book out of operative position automatically closes the book. And a still further object of my invention is to provide a book holder which will always open the book at the same page.

With these and other objects in view, my invention will be more fully described, illustrated in the drawings which show a preferred embodiment of my book holder and then specifically pointed out in the claims which are attached to and form a part of this application.

In the accompanying drawings:—Figure 1 is a side elevation of the device, closed. Fig. 2 is a side elevation of the device open and showing the releasing hook in operative position, in dotted lines. Fig. 3 is a front view closed. Fig. 4 is a section on the line 4—4 of Fig. 1. Fig. 5 is a detail section on line 5—5 of Fig. 1. Fig. 6 is a detail view of the hook. Fig. 7 is a detail view of the handle.

Referring more specifically to the drawings in which similar reference numerals designate corresponding parts throughout,

1 designates in general the body portion or support of my improved book holder which may be formed of any desired material, preferably of metal, and the upper end of which is provided with an enlarged head portion 2, the rear portion of which is provided with an outwardly and downwardly extending spindle member 3 adapted to be seated in the socket 4 of a swivel bracket 5 which is secured by screws 6 to a wall, desk or other preferred support 7. This spindle is provided intermediate its length with an annular groove 8 adapted to be engaged by the inner end of the set screw 9 which is passed through the side wall of the socket, whereby the body 1 is free to rotate upon the bracket but is held from disengagement therefrom. The opposite side of the head member 2 extends beyond the body member proper and the book rest proper, which as a whole is designated by the numeral 10, and is secured by its upper end to the lower portion of the outer face of the head by means of a hinge 11, the upper end of the book rest 10 being beveled as shown at 12 to permit the same to be raised to any desired angle in respect to the body member 1.

Secured to the upper portion of the outer face of the member 10 is an outwardly and upwardly extending ratchet sector 13 having a plurality of downwardly inclined ratchet teeth 14 formed upon its outer face, which is arcuate in shape, said teeth being adapted to be engaged by a hook 15 which is pivotally mounted between upstanding ears 16 formed in the upper forward portion of the head member 2. An arched leaf spring 17 is secured by a screw or other suitable means 18 to the upper rear portion of the head member in such a manner that its free end rests upon the upper face of the hook 15 at a point slightly in advance of the pivotal point thereof, whereby the hook is maintained in engagement with the teeth. As shown the pivotal portion of the hook is provided with an outstanding shoulder 19 which bears against the outer face of the head 2 when the hook is in lowered position thereby limiting its downward motion, which means the hook is at all times maintained in position to engage with the teeth of the sector. The forward face of the hook and the upper face of the sector member are curved as shown in such a manner as to permit the sector member to readily slide under the hook and be engaged thereby.

From the above it will be readily understood that the supporting member 10 may be swung outwardly to any desired angle and held in adjusted position by means of the hook and sector above described.

The rear face of the supporting member 10 is provided intermediate its length with a pair of rearwardly extending spaced apart ears 20 and pivotally mounted between these ears is a release rod 21 the upper end of which is bent outwardly and passed through a suitable aperture 22 formed in the supporting member 10 at a point adjacent the sector member 13 to which it is secured by means of the U-shaped clip 23, said end terminating as shown at a point slightly in advance of the sector member 13. The clip 23 and the aperture 22 are so proportioned that the forwardly extending end of the release rod is slidable therethrough and a leaf spring 24 is secured by one end to the upper portion of the rear face of the supporting member 10 by a screw 25 in such a manner that its free end bears against the release rod and serves to maintain the same normally in withdrawn position as best shown in Fig. 1 of the drawings. Secured upon the upper face of the hook member 15 is a plate 26 which extends beyond the free end of the hook as shown at 27 and one side of which as shown at 28 extends beyond the side of the hook 15 and is bent downwardly to form a depending flange 29 parallel to and spaced apart from the side of the hook, the purpose of which plate will be hereinafter fully explained.

The lower end of the release rod 21 extends downwardly and terminates at a point adjacent the lower end of the supporting member 10, at which point it is pivotally mounted in the slotted end 30 of a handle 31, the pivotal point being intermediate the length of the handle, whereby the upper end of the handle extends upwardly between the members 1 and 10 while the lower end extends below the same a sufficient distance to be easily grasped by the operator. Adjacent the upper end of this handle the rear face of the supporting member 10 is provided with a transversely extending notch 32 the purpose of which will be hereinafter explained.

Extending through a suitable aperture formed in the lower end of the supporting member 10 is a screw 33 upon the threaded end of which is a wing nut 34. As shown the head portion of the screw is spaced at a slight distance in advance of the forward face of the member 10 and forms the ball member 35 of a gimbal joint 36 the socket member 37 of which is formed at one end of a rod 38 the other end of which terminates in an eye 39 adapted to engage over the free end of a screw 40 which extends outwardly through the lower portion of the

sector member as shown, a wing nut 41 being supplied to maintain the same in position. In fastening the book to my improved holder the upper end of the rod 38 is released and the rod swung outwardly upon the gimbal joint as a pivot, said rod is then inserted, between the leaves of the book to be secured and which is conventionally shown at 42, the rod 38 is then swung back into position and secured in place by the wing nut 41 thus firmly clamping the book against the outer face of the supporting member 10 and it will be readily understood that by means of the screws 33 and 40 and the wing nuts 34 and 41 the clamping rod may be adjusted to secure any form of book irrespective of the style of binding.

Secured transversely across the rear face of the supporting member 10 at a point intermediate between the ends of this clamping rod is a plate 43 the ends of which extend upon either side beyond the sides of the member 10 and hinges 44 and 45 are secured by one end between the member 10 and the plate 43 by the same screws 46 which secure the plate 43. Secured to the free ends of the hinges 44 and 45 are outwardly extending wings 47 and 48, which as best shown in Fig. 5 of the drawings are bowed outwardly intermediate their length and then inwardly in such a manner that their free ends are adjacent each other when the wings are swung together. Secured to the side edges of the body member 1, one upon either side thereof are substantially U-shaped closing rails 49 and 50, the function of said rails being to normally maintain the wings 47 and 48 in closed position.

In operation the handle 31 is grasped by the operator and the supporting member 10 swung outwardly thereby upon the hinge 11 until the book is at the desired angle, the ratchet sector 13 in the meantime passing beneath the hook 15 while the upper end of the release rod 21 passes between the hook 15 and the flange 29 of the plate 26. When the book has been swung to the required angle the handle is released, the hook 15 serving to maintain the supporting member 10 and consequently the book in adjusted position. In the meanwhile as soon as the bowed portion of the wings 47 and 48 have passed beyond the control of the closing rails 49 and 50 they swing outwardly causing the book to automatically open at the pages between which the clamping rod 38 is inserted. In practice the book is usually swung outwardly at such an angle that the supporting wings 47 and 48 extend at right angles to their normal position and when so extended the extending ends of the plate 43 serve to limit their further opening whereby the wings serve to support the sides of the book in its open position. When the book is to be closed, the handle 31 is pressed in-

wardly, its upper end engaging with the notch 32 to form a fulcrum whereby the upper end of the release rod 21 is forced through the aperture 22 and the clip 23 against the force of the spring 24 until its free end presses upwardly against the plate 26 in such a manner as to raise the hook 15 against the force of the springs 17 to release the ratchet sector, when it will be readily understood the supporting member 10 may be swung back into normal position against the body member 1. As the supporting member 10 is being thus swung back the supporting wings 47 and 48 pass inwardly between the closing rails 49 and 50 which engage against the outwardly bowed portions of the former thereby bringing the wings together and closing the book. The book when so closed may be swung to one side out of the way by means of the swivel bracket 5.

As will be readily understood from the foregoing description my improved book holder is simple in construction and efficient in operation. By means of the interaction of the wings and closing rails the mere swinging of the book to a convenient angle for reading serves to open the book while the swinging of the book back to position serves to close the same.

The above described holder may of course be used to advantage with any book desired but is especially intended for use with reference books such as dictionaries and directories, and when used with the latter is of particular value owing to the fact that it always opens the book at the same place, thus when using the telephone directory the rod may be positioned between the pages containing the list of local subscribers thus insuring the correct opening of the book at all times. For use in pay stations and the like in stores the rod may be positioned between the pages containing the owner's advertisement, which as will be easily understood is of great advantage and tends to greatly increase the value of that form of advertisement.

What I claim is:—

1. A book holder, comprising a body member adapted to be secured to a wall, a book supporting member hinged by its upper end to the upper portion of the body member, a ratchet sector carried by said supporting member, a spring pressed hook carried by said body member and adapted to engage with the ratchet member when the supporting member is swung outwardly, and means for releasing said hook.

2. A book holder, comprising a body member adapted to be secured to a support, a book supporting member hinged by its upper end to the body member and adapted to be swung toward and away from the same, means for clamping a book to said supporting member, a ratchet sector carried by said supporting member, a spring pressed hook carried by said body member and adapted to engage with said ratchet when the supporting member is swung away from the body member, and a release rod co-acting with said hook to disengage it from the ratchet member.

3. A book holder, comprising a body member, a book supporting member hinged by its upper end to the body member and adapted to be swung toward and away from the same, means for clamping a book to said supporting member, supporting wings hinged to said supporting member and adapted to open outwardly to form the supports for the open book when said supporting member is swung away from said body member, closing rails secured to said body member and adapted to co-act with said supporting wings to close the book when the supporting member is swung toward the body member, means for swinging the supporting member from said body member, means for holding said supporting member in its out-swung position, and a release mechanism adapted to disengage said holding means whereby said supporting member may be swung inwardly.

4. A book holder, comprising a body member, a book supporting member hinged by its upper end to said body member, means for clamping a book to said supporting member, a ratchet sector carried by said supporting member, a spring pressed hook carried by said body member and adapted to engage with said ratchet member when the supporting member is swung outwardly, a release rod pivoted to said supporting member intermediate its length, one end of said rod being bent outwardly and extended through the supporting member and bearing against said hook, and a handle pivoted to the other end of said rod by means of which the rod is actuated to release the hook.

In testimony whereof, I affix my signature, in presence of two witnesses.

ERIC R. LUNDIUS.

Witnesses:

E. G. CURREY,

W. H. MULLIKIN.