No. 640,347. Patented Jan. 2, 1900.

O. R. WINSLOW.

COPY HOLDER.

(Application filed Dec. 20, 1898.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 6.

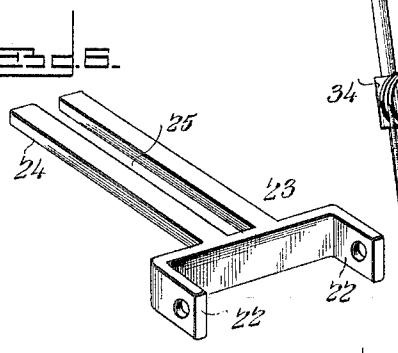
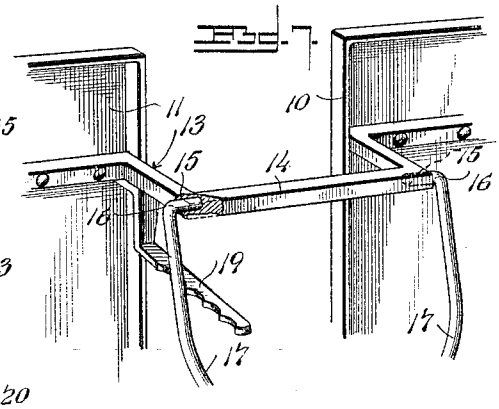
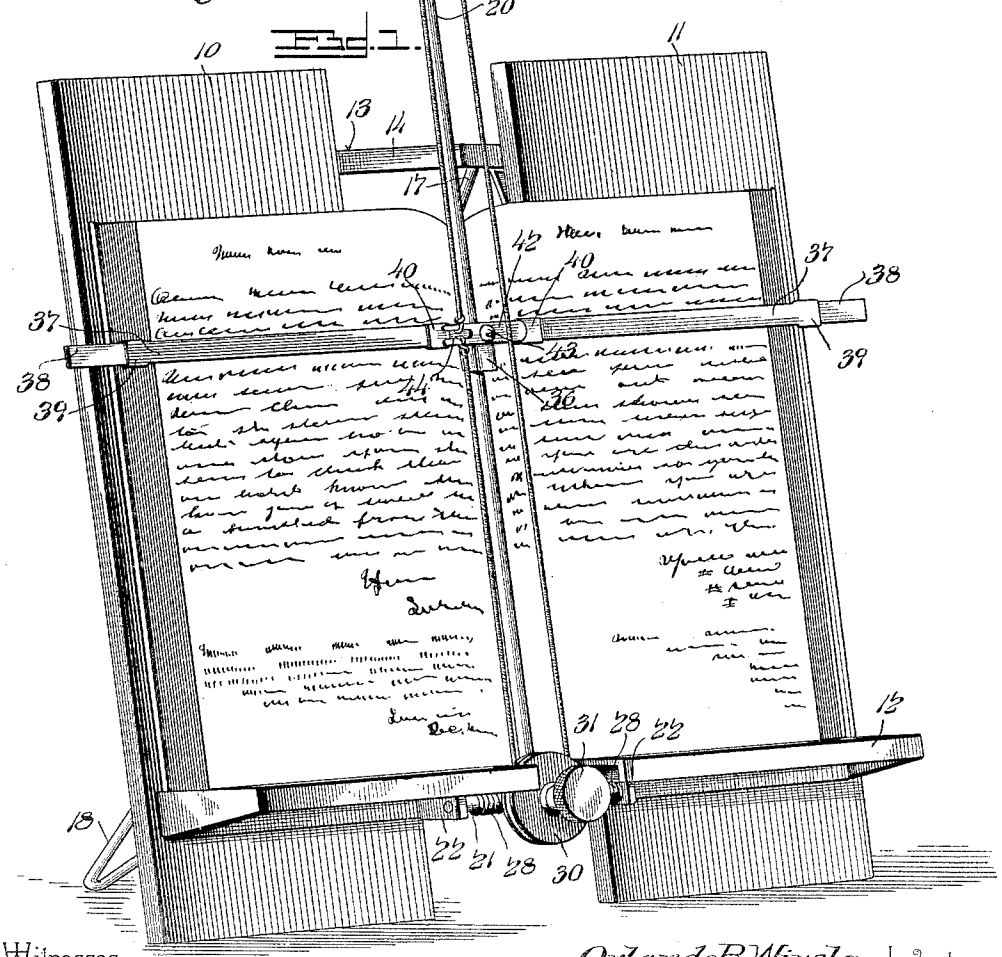


Fig. 7.





Witnesses

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(No Model.) 2 Sheets—Sheet 2.

Fig. 2.

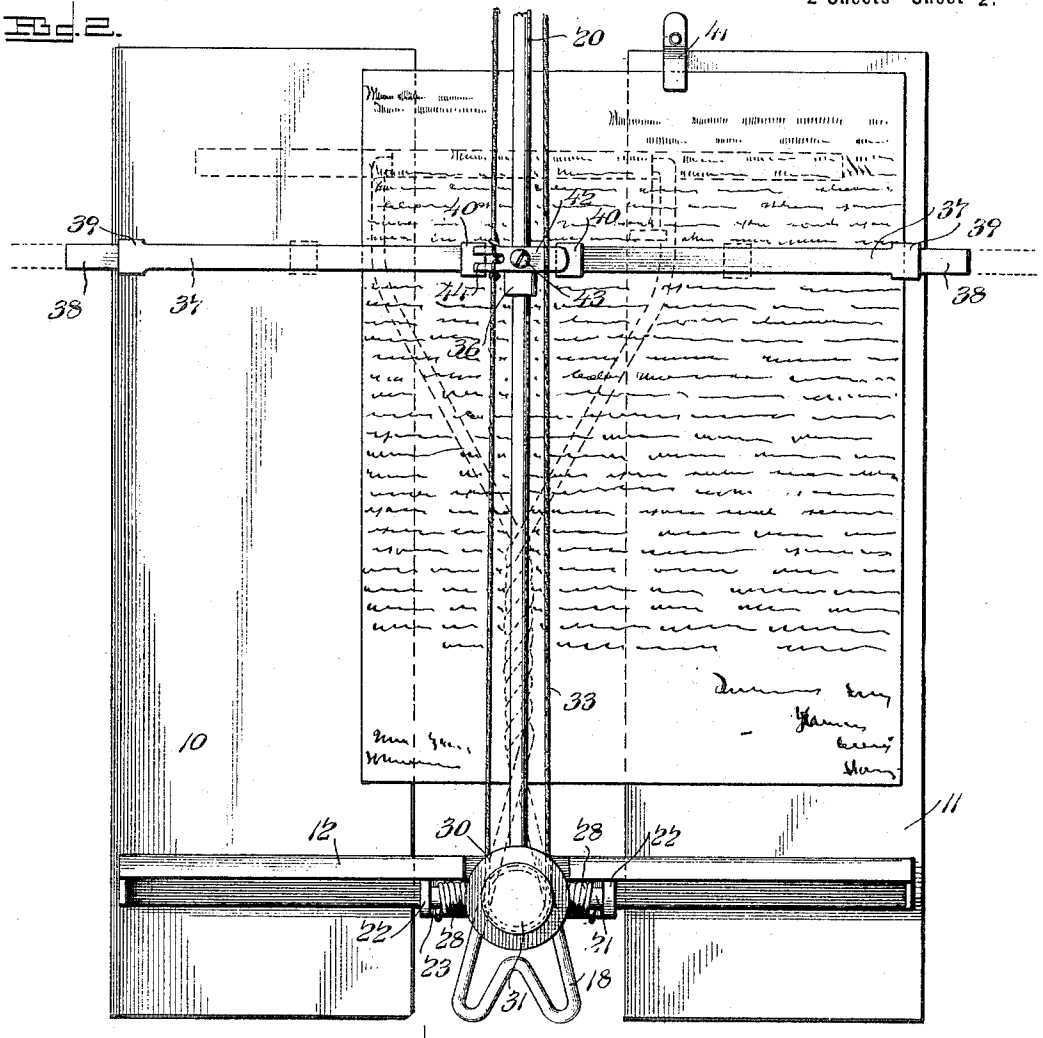


Fig. 3.



Fig. 5.

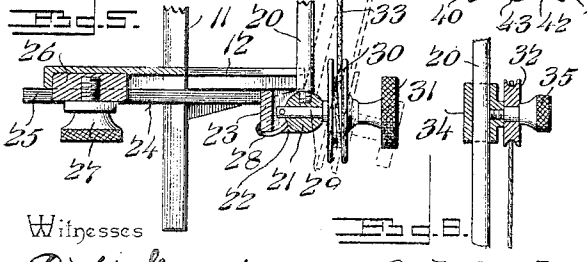


Fig. 4.

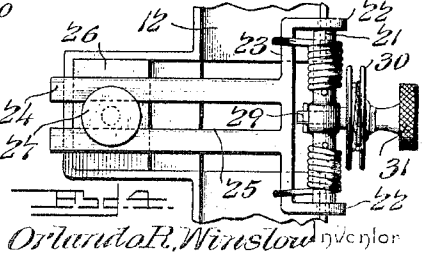


Fig. 6.

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UNITED STATES PATENT OFFICE.

ORLANDO R. WINSLOW, OF MARSHFIELD, MISSOURI.

COPY-HOLDER.

SPECIFICATION forming part of Letters Patent No. 640,347, dated January 2, 1900.

Application filed December 20, 1898. Serial No. 699,858. (No model.)

To all whom it may concern:

Be it known that I, ORLANDO R. WINSLOW, a citizen of the United States, residing at Marshfield, in the county of Webster and State of Missouri, have invented a new and useful Copy-Holder, of which the following is a specification.

My invention relates to a combined book-rest, copy-holder, and guide, and has for its object to provide a simple and efficient improvement upon the construction shown and described in Patent No. 551,825, granted to Hubbard and Winslow on December 24, 1895, the particular object of the present invention being to provide means whereby the adjustable line-guide may be varied in position toward and from the plane of the holder, and thus caused to traverse paths at different distances from the plane of the holder to adapt the apparatus for holding either loose sheets or books of different thicknesses, while providing for the contact of the guide with the surface of the sheet or leaf throughout its movement.

Further objects and advantages of this invention will appear in the following description, and the novel features thereof will be particularly pointed out in the appended claims.

In the drawings, Figure 1 is a perspective view of a copy-holder constructed in accordance with my invention, the parts being arranged for use in connection with a book. Fig. 2 is a front view showing the parts arranged for use in connection with a sheet. Fig. 3 is a detail view of the traveler by which the guide-arms are carried. Fig. 4 is an inverted plan view of a portion of the holder to show the means for maintaining the combined guide-bar and holding-arm in its proper position with relation to the back of the holder. Fig. 5 is a vertical sectional view of the same. Fig. 6 is a detail view of the adjustable yoke by which the combined guide and holding-arm is supported. Fig. 7 is a rear perspective view of a portion of the apparatus to show the means for securing the standard at the desired adjustment. Fig. 8 is a detail section of the idle pulley and the means for adjustably mounting the same upon the holding-arm.

Similar reference characters indicate corresponding parts in all the figures of the drawings.

The back of the book-holder embodying my invention consists of leaves 10 and 11, which are spaced apart at their adjacent edges to form an interval sufficient to receive the binding of a book, and these leaves or sections are connected near their lower ends by a forwardly-projecting rest 12 and near their upper ends by a transverse bar or cleat 13, bowed rearwardly to form a stirrup 14 in the plane of the space or interval between the adjacent edges of the leaves or sections. In the offsets or shoulders at the extremities of this stirrup are formed sockets 15 for the reception of the inturned trunnions 16 at the extremities of the separated upwardly-divergent arms 17 of a back brace or leg 18, which may be formed of heavy spring-wire or the equivalent thereof. Also extending rearwardly from the back of the holder is a ratchet-arm 19, arranged in operative relation with one of the arms of the back brace or leg and having a series of seats or notches in which the adjacent arm of said back-brace is adapted to engage to lock the latter at the desired adjustment with relation to the plane of the back. The resilience of the arms of the back-brace serves to maintain their terminal trunnions in the sockets and also to hold one of said arms in engagement with the desired seat or notch of the ratchet-bar to prevent accidental disarrangement of the parts.

Mounted for swinging movement in a vertical plane centrally of the interval between the adjacent edges of the leaves or sections of the back is a book-holding arm 20, adapted to lie in the binding-crease of a book throughout the length of the latter, and in the construction illustrated said arm is provided at its lower end with a transverse spindle 21, terminally mounted in bearings in the arms 22 of a yoke 23. This yoke is provided with a rearwardly-extending slide-plate 24, longitudinally slotted, as at 25, to receive a guide-block 26, depending from or otherwise permanently attached to the rest 12, and threaded in a suitable socket in said guide-block, preferably from the under side thereof, is a thumb-screw 27, having a shoulder to bear against

the lower surface of said slide-plate and clamp the latter at the desired forward and rearward adjustment, thus securing the spindle of the book-holding arm in the desired position with relation to the plane of the back of the holder. Springs 28, coiled upon the spindle of the holding-arm and attached at its extremities, respectively, to the spindle and the yoke, serve to repress the holding-arm at its upper end and thus maintain it yieldingly in engagement with a book supported by the rest; but it will be understood that other equivalent means may be employed for thus yieldingly holding the arm in its operative position, while allowing the forward-swinging movement thereof to turn the leaves of a book or to remove and replace the same. Also extending radially from the spindle of the holding-arm, and preferably mounted in a diametrical bearing therein, is the spindle 29 of a pulley 30, having a thumb-hold or grip 31, and traversing this operating-pulley and also a second or idle pulley 32, near the upper end of the holding-arm, is a carrier 33, consisting of cord or any other equivalent flexible device, the sides of said carrier being arranged approximately parallel with the holding-arm. The tension of this carrier may be adjusted by the adjustment of the idle pulley, which is mounted upon the holding-arm for movement parallel therewith by means of a slide 34, which is locked at the desired adjustment by a set-screw 35. Said set-screw impinges terminally against the surface of the holding-arm and is shouldered and otherwise constructed to form a spindle for the idle pulley.

Mounted upon the holding-arm between the transverse planes of the operating and idle pulleys is a traveler 36, and the holding-arm is preferably of cross-sectionally-round construction, while the guide-opening in the traveler is of similar cross-sectional construction to adapt the traveler to turn or rock freely upon the holding-arm as a center. This traveler carries oppositely-extending guide-arms 37, said guide-arms being of extensible construction, with movable members 38, mounted to slide on those members which are attached to the traveler. The outer extremities of the main or fixed members of the guide-arms are constructed to form keepers 39, through which the adjustable members extend, and said adjustable members, at their inner ends, are provided with keepers 40 to traverse the fixed members. This traveler is attached to one side of the carrier, and hence by communicating rotary movement to the operating-pulley, and thus communicating motion to the carrier, the traveler may be advanced upward or downward upon the holding-arm as a guide to arrange the upper edges of the guide-arms in the desired relations to lines of printing or writing upon the copy, whether the latter is a book or a sheet suitably supported upon the rest or fastened by means of a clamp 41 to one of the leaves or sections of said rest. As a means of attachment of the carrier to the traveler I preferably affix to the latter a clasp 42, consisting of a flat plate or its equivalent, engaged at its center by a screw 43, threaded into the body portion of the traveler and terminally free, the extremities of said clasp being located adjacent to the plane of the guide-arms. One extremity of said clamp is bifurcated, as shown at 44, and the extremities of the carrier may be engaged therewith, as indicated in the drawings. The extremities of the clasp, however, perform the further function of engaging the keepers at the inner ends of the adjustable members of the guide-arms. When said adjustable members are moved inward, the said keepers pass under the extremities of the clasp or between the same and the plane of the body portions of the guide-arms and are thus secured to prevent accidental extension, while disengagement may be effected by drawing outwardly upon the adjustable members with sufficient force to overcome the frictional resistance offered by the extremities of the clasp.

From the above description it will be seen that an open book may be arranged upon the holder embodying my invention, the side portions or members of the book-back occupying positions, respectively, upon the leaves or sections of the back, while the binding occupies a position in the interval or space between said leaves or sections, and by loosening the set-screw by which the yoke 23 is secured in place the lower end of the holding-arm may be adjusted toward and from the plane of the back to cause said holding-arm to lie throughout its length in the binding-crease of the book, said set-screw being tightened, after said adjustment, to clamp the parts in the desired position. In the same way, as indicated in Fig. 2, a single sheet or a plurality of loose sheets may be arranged in contact with one leaf or member of the back, where it may be secured by any suitable means, such as the clamp shown and described, the adjustment of the yoke being suited to the thickness of the object, whether a book or loose sheets, which may be arranged upon the rest to cause the guide-arms to travel in a path parallel with the surface of said object. The extension of the guide-arms in opposite directions from the plane of the holding-arm adapts the apparatus to indicate the desired line upon either side of a book supported by the rest. Furthermore, the swiveled mounting of the traveler upon the holding-arm adapts the guide-arms to lie in flat contact with the opposite sides of a book when the latter is opened other than at the center or when a portion of a book upon one side of the plane of the holding-arm is of greater thickness than the other, and the flexibility of the carrier allows this angular adjustment of the guide-arms without affecting the operativeness of the parts.

In practice various changes in the form, proportion, and the minor details of con-

struction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

Having described my invention, what I claim is—

1. In a copy-holder, the combination with a back and rest, of a centrally-located holding-arm, a yoke mounted for adjustment toward and from the plane of the back, and having said holding-arm pivotally mounted thereon for swinging movement toward and from the plane of the back, and means for securing said yoke at the desired adjustment, substantially as specified.

2. In a copy-holder, the combination with a back and rest, of a centrally-located holding-arm, a yoke mounted for adjustment toward and from the plane of the back, and having said holding-arm pivotally mounted thereon for swinging movement toward and from the plane of the back, a fixed guide for said yoke, and a set-screw for securing the yoke at the desired adjustment with relation to the guide, substantially as specified.

3. In a copy-holder, the combination with a back and rest, of a centrally-located holding-arm, a yoke mounted for adjustment toward and from the plane of the back, and having said holding-arm pivotally mounted thereon for swinging movement toward and from the plane of the back, said yoke having a slotted slide-plate, a fixed guide-block engaged by the slot of said slide-plate, and a shouldered set-screw for locking the slide-plate at the desired adjustment, substantially as specified.

4. In a copy-holder, the combination of connected back sections or members spaced apart at their inner edges to receive the binding of a book and provided with a rest, a central holding-arm for arrangement in the crease between the leaves of a book, and an indicator slidably and rotatably mounted upon said holding-arm and provided with oppositely-extending arms adapted to simultaneously engage the pages of a book upon said back-sections and automatically conform to the different correlative heights of pages at both sides of the holding-arm, substantially as specified.

5. In a copy-holder, the combination of connected back sections or members spaced apart at their inner edges to receive the binding of a book and provided with a rest, indicating devices for traversing a book supported by the back and rest, a ratchet-arm extending rearwardly from the back, and a back brace or leg provided at its upper end with outwardly-yielding arms terminating in inturned trunnions fitted in sockets, one of said arms being arranged in operative relation with said ratchet-arm, and being held in engagement with a tooth thereof by the resilience of the arms, substantially as specified.

6. In a copy-holder, the combination with a back and rest, of a pivotal holding-arm provided at one end with a transverse spindle, an operating-pulley having a thumb wheel or grip, and provided with a spindle mounted in a bearing in said spindle of the holding-arm, an idle pulley mounted upon the holding-arm at a point remote from said operating-pulley, for adjustment parallel with the holding-arm, a guide-arm-carrying traveler mounted upon the holding-arm for sliding movement, and an endless carrier traversing said pulleys and connected with the traveler, substantially as specified.

7. In a copy-holder, the combination with a back and rest, of a holding-arm arranged parallel with the plane of the back, a traveler rotatably and slidably mounted upon the holding-arm, extensible guide-arms carried by and movable with the traveler and extending on opposite sides of the traveler and having adjustable members and adapted to simultaneously engage the pages of a book at both sides of the holding-arms at various degrees of their rotary movement, and a spring-clasp carried by the traveler, and terminally arranged for engagement with the extremities of said adjustable members of the guide-arms, when the latter are arranged at the limits of their inward movement, substantially as specified.

8. In a copy-holder, the combination with a back and rest, of a centrally-located pivotal holding-arm, spaced operating and idle pulleys carried by the holding-arm, a carrier traversing said pulleys, a traveler mounted upon the holding-arm for linear adjustment, extensible guide-arms extending in opposite directions from the traveler, and having adjustable members, and a clasp centrally secured to the traveler and extending in opposite directions to engage the inner extremities of said adjustable members of the guide-arms, one of the extremities of said clasp being bifurcated for engagement with one side of said carrier, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

ORLANDO R. WINSLOW.

Witnesses:
F. L. BEATIE,
J. L. HYDE.