

Sept. 18, 1928.

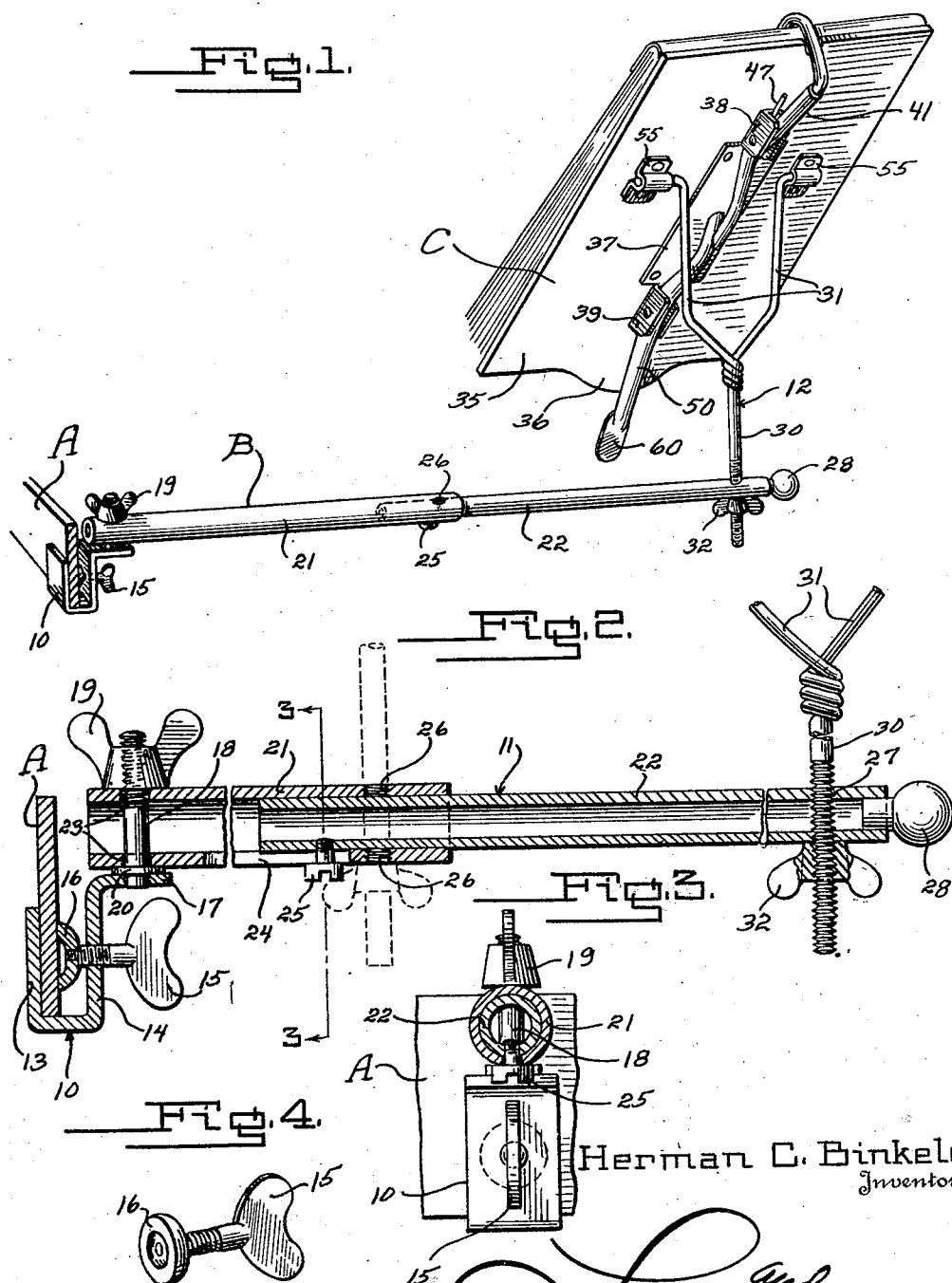
1,685,041

H. C. BINKELE

COPYHOLDER

Filed Feb. 4, 1926

2 Sheets-Sheet 1



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2 Sheets-Sheet 2

Fig. 5.

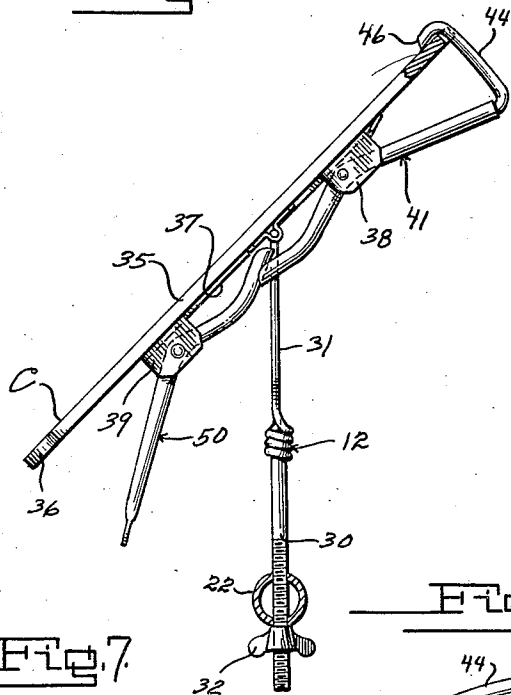


Fig. 6.

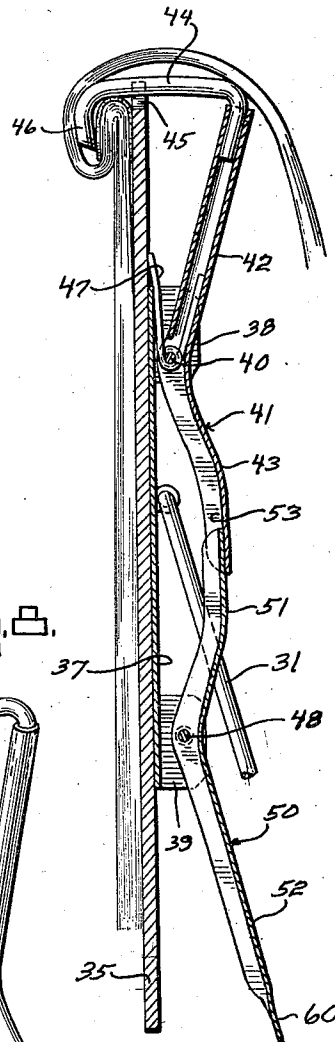
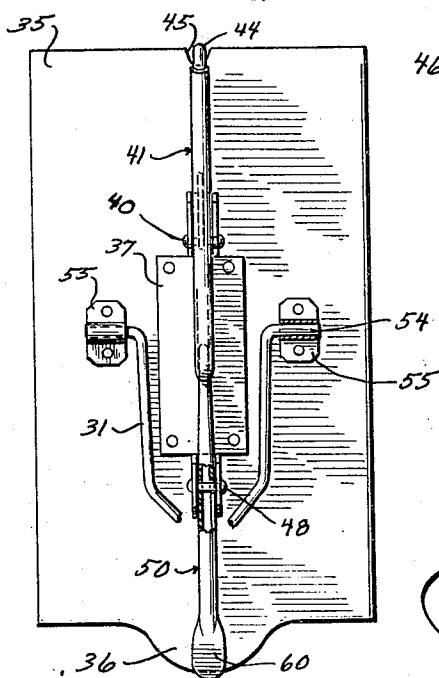


Fig. 7.



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COPYHOLDER.

Application filed February 4, 1926. Serial No. 86,044.

The present invention relates to improvements in copy holders, and the primary object of the invention is to provide a device of this character whereby copies may be adjustably supported in various positions most suitable to the eyes of the operator.

A further object of the invention is to provide a copy holder embodying a holder proper adapted for holding either a note book or single pages, and which holder is primarily intended for attachment to typewriting machines.

A still further object of the invention resides in the position of a novel type of holder proper, wherein the means for retaining copies upon the holder is disposed wholly to the rear with portions thereof extending to a position to be readily grasped by the operator for the positioning or removal of a copy from the holder.

A still further object of the invention is to provide an adjustable copy holder for attachment to typewriting machines, wherein the various adjustable sections of the holder may be locked in various adjusted positions against liability of further movement due to vibration of the typewriting machine.

Other objects and advantages of the invention will be apparent during the course of the following detail description, taken in connection with the accompanying drawings forming a part of this specification and in which drawings:

Figure 1 is a perspective view of the improved holder, looking at the rear side of the holder proper, and showing the same connected with one of the frame members of a typewriting machine.

Figure 2 is an enlarged longitudinal section through the adjustable supporting structure for the holder proper.

Figure 3 is a transverse section on line 3—3 of Figure 2, looking in the direction of the arrows.

Figure 4 is a perspective view of the clamping bolt for the supporting structure.

Figure 5 is a side elevation of the holder proper and showing a portion of the supporting structure therefor.

Figure 6 is an enlarged central vertical section through the holder proper and showing a notebook held thereby.

Figure 7 is a rear plan view of the holder proper and showing certain portions broken away for illustrating details of construction.

Figure 8 is a perspective view of the clamping lever of the improved copy holder.

Referring to the drawings in detail, and wherein similar reference characters designate corresponding parts throughout the several views, the letter A may designate a suitable support member, B an adjustable supporting structure for detachable connection with the support A, and C a holder proper carried by the free end of the supporting structure B.

In the illustration, the support member A preferably constitutes one of the side frame members of a typewriting machine.

The adjustable supporting structure B embodies an attaching clamp 10, a longitudinally adjustable swing beam 11, and a vertically adjustable stand arm 12 disposed at the outer or free end of the swing beam 11. The attaching clamp 10 embodies a U-shaped body portion providing spaced inner and outer clamp plates 13 and 14 respectively, which when the U-shaped body is slid upwardly from beneath the frame member A, are adapted to extend one at each side of the frame member. Threaded into the outer clamp plate 14, is a wing nut 15 having a head 16 swivelled upon its inner end for clamping engagement with the member A for rigidly securing the supporting structure to the supporting member. Extending outwardly at a right angle from the upper end of the clamp plate 14, is a horizontally disposed wing 17 and which wing rigidly supports at its upper side, a vertically extending stud 18 having a screw threaded upper end for threaded reception of a wing nut 19. This stud 18 may be secured in the wing 17 in any suitable manner, and a washer 20 is preferably disposed about the stud at the upper face of the wing.

The swing beam 11 which is preferably formed from telescoping tubular sections, embodies an outer tubular section 21 and an inner tubular section 22 of a diameter to snugly and frictionally slide within the tubular section 21. The tubular section 21 is provided adjacent its rear end with aligned apertures 23 for receiving the stud 18 of the attaching clamp 10. This mounting of the tube section 21 upon the stud 18 allows for horizontal swinging of the swing beam 11, and upon tightening of the wing nut 19 upon the tube section 21, the swing beam may be held in any adjusted horizontal position.

vided in the under side of the tube section 21, and terminating short of the ends thereof, is a longitudinally extending slot or guideway 24 through which a set screw 25 may pass for threaded engagement with the inner end of the tube section 22 as clearly illustrated in Figure 2. This slot 24 and set screw 25 will allow for longitudinal adjustment of the swing beam without allowing for the tube sections 21 and 22 becoming separated. The slot 24 and set screw 25 also prevents rotary movement of the sections 21 and 22 one with-in the other, and which relative rotary movement of the sections would be undesirable as will be later explained. Provided in the outer end of the tube sections 21, are aligned screw threaded bores 26 the axis of which extends in parallel relation with the axis of the aligned apertures 23, and the purpose of which screw threaded bores will be subsequently explained. Provided adjacent the outer end of the tube section 22, are aligned screw threaded bores 27 of a size equal to the threaded bores 26 of the tube section 21, and which bores 27 when the tube sections are in proper assembled relation, have their axes extending parallel with the axis of the stud 18. A suitable plug or closure cap 28 may be employed for closing the outer end of the tube section 22. Referring now to the stand arm 12, the same embodies a threaded shank portion 30 which is intended to be threaded into the aligned threaded bores 27 of the tube section 22, and from the upper end of which shank portion, forked arms 31 extend upwardly for hinged connection with the holder proper C. It will be seen that upon rotation of the stand arm, that the same will, through its threaded connection with the tube section 22, be raised and lowered for vertical adjustment of the holder proper, and that upon proper vertical adjustment of the holder, the wing nut 32 which is threaded upon the shank beneath the tube section, may be turned into binding engagement with the tube section for preventing further rotation of the stand arm. It may here be mentioned that by so preventing relative rotation of the tube sections, as by means of the slot 24 and set screw 25, that the stand arms 12 will be retained in a vertical upright position for proper supporting of the holder proper C.

Referring now to the holder proper C, the same embodies a substantially rectangular shaped rest plate 35 which may be formed either of wood or sheet metal, and from the central lower portion of which a thumb engaging lip 36 extends. Secured longitudinally at the rear face of the rest plate, and centrally thereof, is an attaching plate 37 having rearwardly extending spaced apart ears 38 and 39 provided respectively at the upper and lower ends of the plate. These ears 38 and 39 are preferably formed by bending up the end portions of the

attaching plates. Pivotally mounted intermediate its ends between the upper spaced ears 38, as by means of a suitable hinge pin 40, is a clamping lever 41 having its upper tubular arm portion 42 extending in diverging relation from the rest plate 35 and its lower arm portion 43 which is of U-shape in cross section, extending downwardly from the hinge pin 40 in diverging relation to the rest plate. Secured in the upper end of the tubular arm portion 42, is a clamp arm 44 which extends forwardly through a notch or recess 45 provided in the upper marginal edge of the rest plate, and having provided at its forward end a depending hook portion 46 which overlies the upper portion of the face of the rest plate 35. A spring 47 coiled about the hinge pin 40, has one free end thereof bearing against the rear face of the rest plate, and its opposite free end extending upwardly in the tubular arm portion 42 for normally urging the arm 42 rearwardly and the hook portion 46 toward the front face of the rest plate. Pivotally mounted intermediate its ends between the lower spaced ears 39 as by a suitable hinge pin 48, and extending in alignment with the clamping lever 41, is a releasing lever 50 having its upper arm portion 51 engaging the inner side of the lower arm portion 43 of the clamping lever 41, and having its lower arm portion 52 which extends in downwardly diverging relation to the rest plate, terminating at a point directly to the rear of the lip 36 of the rest structure. By so having the lower arm 43 of the clamping lever 41, of U-shape in cross section, the same forms a pocket 53 for receiving the upper end of the arm portion 51.

The upper ends of the forked arms 31 are provided with oppositely extending pintles 54 which are mounted in friction hinge clips 55 secured to the rear face of the rest plates to each side of the attaching plate 37. These hinge clips 55 are preferably made of spring material so that sufficient friction will be created about the pintles 54 for retaining the holder proper in various tilted positions.

Should it be desirable to use but one section of the swing beam 11, the stand arm 12 may first be threaded out of the bores 27 and the set screw 25 removed for permitting of the section 22 being withdrawn from the tubular section 21. The threaded shank portion 30 of the stand arm 12 may then be threaded into the bores 26 of the tubular section 21, and the wing nut 32 threaded upon the lower end thereof for locking the stand arm in adjusted position. This construction will be found extremely advantageous when applying the supporting structure to a support so positioned as to prevent utilizing of the entire swing beam.

In positioning a notebook or copysheet upon the holder proper, the operator first places the thumb against the lip 36 and grasps

with his forefinger, the lower flat portion 60 of the releasing lever 50. By drawing his forefinger forwardly, the upper arm section 51 swings outwardly about the hinge pin 48, forcing the arm section 43 rearwardly and the upper arm portion 42 forwardly thus causing the clamping arm 42 to move forwardly and carry the depending hook portion 46 out of engagement with the front face of the rest plate. During this forward swinging of the clamp arm 44, the notch 45 serves as a guide for preventing any lateral movement of the arm. After positioning the upper end of a notebook or copysheet beneath the hook portion 46, the lever 50 may be released and through action of the spring 47, the lever 41 will assume its normal position and draw the hook 46 into clamping engagement with the article to be held upon the rest plate.

Concerning the various positions the holder proper may assume with respect to the support A, the same may be swung toward and away from the support in a horizontal plane about the stud 18, may be shifted toward and away from the support by reason of the telescopic tube sections 21 and 22, may be adjusted vertically by means of the stand arm 12, and may be tilted at various angles by means of the hinge means 54 and 55.

From the foregoing description it will be apparent that an extremely novel and efficient copy holder has been provided embodying features wherein the holder proper may be adjustably disposed in a position to permit of copies held thereby to be readily observed without straining of one's eyes while transcribing the copy supported in the holder.

Changes in detail may be made to the form of invention herein shown and described, without departing from the spirit of the invention or the scope of the following claim.

I claim:

1. A copy holder comprising in combination, a swing beam embodying horizontally disposed inner and outer telescoping sections, said sections each being provided adjacent their outer ends with vertically aligning threaded bores of like diameter, a stand arm embodying a threaded shank portion for threaded engagement in either of the aligning bores, and a holder proper carried by the upper end of the stand arm for rotation therewith upon turning of the threaded shank portion into either of said bores.

2. In a holder, the combination of a rest

plate, a clamping lever pivotally supported upon the rear side of the rest plate and embodying a clamp arm having a hook portion overlying the front face of the rest plate for movement toward and away from the front face upon pivotal movement of the clamping lever, means for normally urging said hook portion toward the front face of the rest plate, and manually operable means mounted upon the rear side of the rest plate and engaging the clamp lever for movement of the hook portion away from said rest plate.

3. The combination with a copy holder comprising a supporting structure embodying a vertically disposed stand arm, of a rest plate hingedly connected intermediate its ends to the upper end of said stand arm, a clamping lever pivotally mounted intermediate its ends upon the rear face of said rest plate and embodying a forwardly extending clamp arm projecting over the upper edge of the rest plate and having a downturned hook portion formed at its forward end overlying the front face of the rest plate, means for normally urging the clamp arm rearwardly, and a release lever pivotally connected at the rear of the rest plate below the clamping lever and embodying an arm portion slidably engaging the clamping lever for manual movement of the clamp arm forwardly.

4. The combination with a copy holder comprising a supporting structure embodying a stand arm, of a rest plate having a lip provided centrally of its lower edge and a notch provided centrally of its upper edge, hingedly connected to the upper end of said stand arm, a clamping lever pivotally connected intermediate its ends to the rear face of the rest plate and having a clamp arm carried by the upper end thereof extending forwardly of the rest plate in the notch at the upper edge thereof and having a depending hook portion formed at its forward end overlying the front face of the rest plate, spring means acting upon the clamping lever for normally urging the clamp arm rearwardly, and a release lever pivotally connected intermediate its ends to the rear face of the rest plate in longitudinal alignment below the clamping lever, with one arm portion loosely engaging the lower end of the clamping lever and with the free end of its other arm portion spaced behind the lip at the lower edge of the rest plate.

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