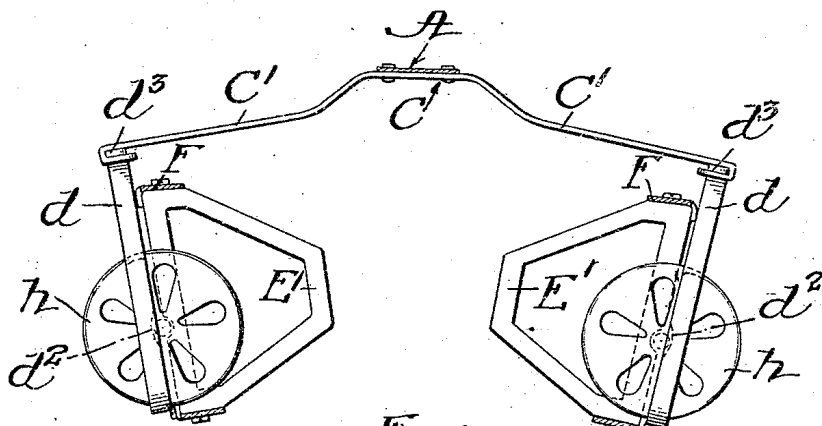
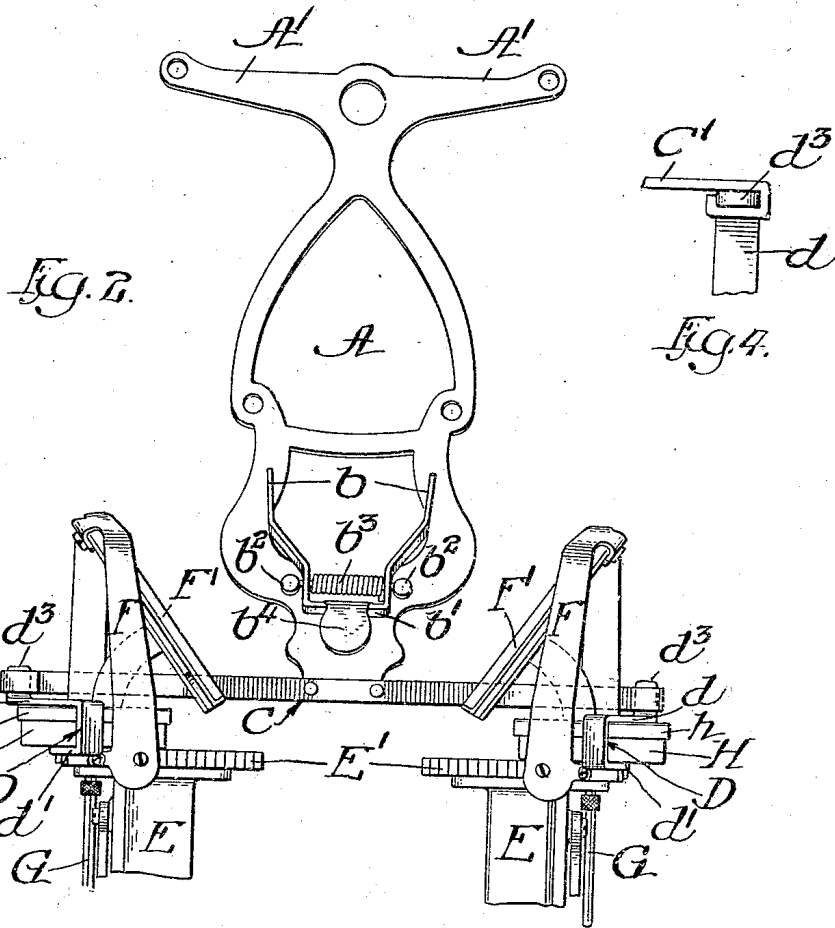


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 COPY HOLDER FOR TYPE WRITING MACHINES.
 APPLICATION FILED JULY 1, 1907.

954,111.

Patented Apr. 5, 1910.
 2 SHEETS—SHEET 2.



Witnesses:
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Fig. 3.

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UNITED STATES PATENT OFFICE.

THELON L. KNAPP, OF WOODSTOCK, ILLINOIS, ASSIGNOR TO THE OLIVER TYPEWRITER COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

COPY-HOLDER FOR TYPE-WRITING MACHINES.

954,111.

Specification of Letters Patent.

Patented Apr. 5, 1910.

Application filed July 1, 1907. Serial No. 381,670.

To all whom it may concern:

Be it known that I, THELON L. KNAPP, a citizen of the United States, and a resident of Woodstock, in the county of McHenry and State of Illinois, have invented certain new and useful Improvements in Copy-Holders for Type-Writing Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to copy-holders for typewriting machines and more especially to a detachable copy-holding device designed to be used in connection with a machine of the "Oliver" type.

The invention consists in the matters hereinafter more particularly set forth and pointed out in the appended claims.

My invention may be better understood by reference to the accompanying drawings, in which,—

Figure 1 is a view in perspective of the copy-holder detached from the typewriting machine. Fig. 2 is a view in perspective of the copy-holder in place on the typewriting machine. Fig. 3 is a top plan view, with parts in section, of the device in place as shown in Fig. 2. Fig. 4 is a top plan view of a portion of the device, showing a modification of the construction shown in Fig. 3.

As shown in said drawings, the copy-holding device comprises a flat body or frame A which is mounted at the upper rear part of the typewriting machine and extends above the same in a rearwardly inclined position. Said body or frame will preferably consist of a single, flat piece of sheet metal, suitably shaped to form a paper support, and is so shown in the drawings. In the particular combination illustrated, said body or frame A is of open construction in order to save weight and is provided at its top part with laterally extending arms A¹ A¹ which furnish supports for the upper part of a sheet of paper which may be supported by the device. Said body or frame A is secured at its lower part to supporting means by which it is detachably secured to the typewriter. At its lower part said body or frame A is provided with a spring clip by means of which one or more

sheets of paper may be securely clamped against the same. Said clip, as shown in the drawings, comprises a flat piece of metal bent to form two upwardly extending arms *b b* and a connecting portion *b*¹, said arms *b b* being pivoted between their ends to a horizontally arranged pivot rod which is fixed at its ends to studs *b*² which are attached to and extend forwardly from the body or frame. Between the two arms *b*² and surrounding the pivot pin is arranged a coiled spring *b*³ which engages at one end with the connecting portion *b*¹ in a manner to press the upper ends of the arms *b b* against the plate A. The said connecting portion *b*¹ is formed with an integral ear or tab *b*⁴ which is bent at right angles thereto to form a handle or lever by pressing on which the upper ends of said arms *b b* may be moved away from the plate A for insertion or removal of sheets of paper.

The body or frame A is attached at its lower end by rivets or otherwise to the central part of a horizontally arranged bar C, the end portions of which constitute two laterally extending arms C¹ C¹ on the said body or frame. The outer ends of said arms are adapted for detachable connection with the rear ends of two forwardly and rearwardly extending supporting arms D D which are detachably secured at their forward ends to the upper part of the machine and serve to sustain the device in place thereon.

In Figs. 2 and 3, which illustrate the upper part of an Oliver typewriting machine, E E indicate two vertical standards and E¹ E¹ horizontal type-bar supports mounted thereon, to which supports are pivoted the type-bars, which it is not deemed necessary to illustrate in the drawings. F F indicate two yokes which support cushioning members F¹ F¹ against which the type-bars rest when retracted. G G indicate the upright ribbon spool shafts, which are located outside of the standards E E, and with the upper ends of which the ribbon spools are connected. Said ribbon spools are contained within stationary cylindrical ribbon spool cases H H, which are secured to the top surfaces of the type-bar supports, having flat and horizontal bottom walls through which extend the upper ends of the ribbon spool shafts. The said ribbon spool cases have removable caps or covers *h* having flat top

surfaces. The said ribbon spool cases are so attached to the type-bar supports that they extend about half the diameter thereof outside of the type-bar supports, and outside of the planes of the outer edges of the yokes F F. These parts of the Oliver typewriting machine are the same as those heretofore employed on such machine.

The supporting arms D D for the copy-holder are adapted for detachable connection with the machine by engagement with the said stationary ribbon spool cases and for that purpose are constructed as follows: Each of said arms D D comprises a flat piece of spring metal bent into U-shape to form two parallel horizontal arms d d^1 which are adapted to be placed in clamping engagement with the part of one of the ribbon spool cases which projects beyond the type-bar support E^1 , one of the arms, d , engaging the cover h , and the other arm, d^1 , the lower surface of said ribbon spool case. Each of said horizontal arms d is bent upwardly at its rear end to form a vertical lug d^2 and the adjacent outer end of the laterally projecting arm C^1 on the body or frame A is bent into hook form, so as to constitute a socket adapted to receive the upright lug d^2 , the parts being engaged in a manner to hold the parts together and support the member A in an upright position.

When the parts are in position upon the typewriting machine, the supporting arms D D are prevented by the engagement of their rear ends with the ends of the arms C^1 C^1 from moving apart at such rear ends and thereby becoming disengaged from the ribbon spool cases G G. Said arms are, moreover, held from lateral movement by the contact of their rear ends with the yokes F F, which contact prevents the copy holder being moved or shifted sidewise. Moreover, by reason of the rectangular shape, in cross-section, of the upright lugs d^2 d^2 , and the sockets which receive the same, the arms D D are prevented from turning in a horizontal plane and thereby becoming disengaged from the ribbon spool cases G G, by the outward movement of their forward ends.

In Fig. 4 is shown a modification of the construction above described for securing the outer ends of the lateral arms C^1 C^1 to the rear ends of the arms d d . In said modified construction, the outer end of each lateral arm C^1 is bent in a manner to engage the associated vertical lug d^2 upon four sides thereof, whereby the parts are prevented from being disengaged by any possible lateral movement of either the bar C or the supporting arms D D.

Each of the lower members d^1 of the arms D D is provided in its inner lateral edge with a notch d^2 which permits the arm to be placed closely adjacent to the type bar

support and yoke notwithstanding the presence of the ribbon spool shafts, as indicated by the dotted lines in Fig. 3.

By the construction above described, the entire device may be easily and quickly put in place upon a typewriting machine, or entirely removed therefrom without the use of any part permanently fixed to the machine.

I claim as my invention:—

1. A copy-holding device for typewriting machines comprising a frame or body provided at its lower part with laterally extending arms, and supporting arms which extend forwardly from and are detachably connected with said laterally extending arms by means of lug-and-socket connections having flat faces adapted to hold the forward ends of said supporting arms from lateral movement relatively to the frame or body, each of said supporting arms consisting of a flat piece of spring metal bent into U-shape at its forward end to form two parallel, horizontal, vertically separated arms adapted for clamping engagement with a part of the typewriting machine.

2. A copy-holding device for typewriting machines comprising a frame or body having laterally extending spring arms and supporting arms which extend forwardly from and have detachable connection with said laterally extending arms, said supporting arms having at their rear ends upwardly extending flat faced lugs, and the laterally extending arms having sockets to receive said lugs and the forward sides of said supporting arms being bent into U-shape to form two substantially parallel, horizontal, vertically separated arms adapted for clamping engagement with a part of the typewriting machine.

3. A copy-holding device for typewriting machines comprising a frame or body having laterally extending arms, the ends of which are bent into U-form to constitute sockets, and supporting arms which extend forwardly from said laterally extending arms, said supporting arms consisting of pieces of flat spring metal which are bent upwardly at their rear ends to form flat faced lugs adapted to enter said sockets in the laterally extending arms and are bent at their forward ends into U-shape to form two substantially horizontal, parallel, vertically separated arms adapted for clamping engagement with a part of the typewriting machine.

In testimony, that I claim the foregoing as my invention I affix my signature in the presence of two witnesses, this 25 day of June A. D. 1907.

THERON L. KNAPP.

Witnesses:

ALICE L. KETRIDGE,
BART C. YOUNG.