

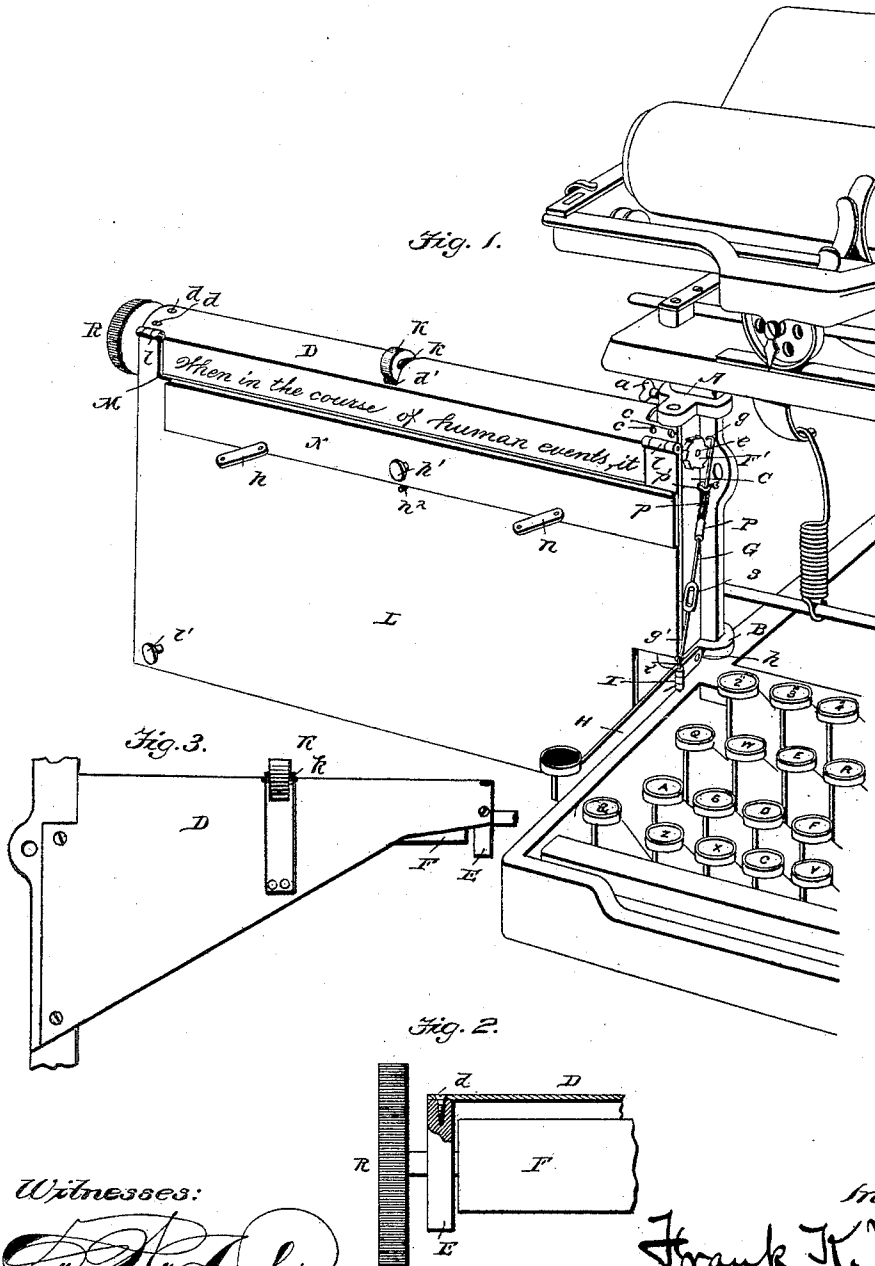
(No Model.)

F. K. WARD.

ADJUSTABLE COPY HOLDER FOR TYPE WRITERS.

No. 442,467.

Patented Dec. 9, 1890.



Witnesses:

*James Coridon*  
*James Coridon*

Inventor:

*Frank K. Ward*

By:

*J. H. Emis*

Attorney

# UNITED STATES PATENT OFFICE.

FRANK K. WARD, OF WASHINGTON, DISTRICT OF COLUMBIA.

## ADJUSTABLE COPY-HOLDER FOR TYPE-WRITERS.

SPECIFICATION forming part of Letters Patent No. 442,467, dated December 9, 1890.

Application filed November 8, 1890. Serial No. 370,834. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK K. WARD, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Adjustable Copy-Holders for Type-Writers; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention has relation to copy-holders, and more particularly to that class employed by type-writers, and in the present instance my device is shown attached to the frame of a type-writer, although it is obvious that it may be secured to a standard and used independently of the machine itself; and the object of my invention is to provide a copy-holder that while the operator has complete access to the manuscript an observer is prevented from overlooking the same and thereby gaining a knowledge of its import; and to these ends the novelty consists in a copy-holder provided with a visual aperture corresponding to a line (or two, if desired) of the manuscript to be copied and a key or equivalent device for instantly and correctly presenting a line (or two) at a time, as required, in such a simple and convenient manner as to greatly facilitate the work and add to the speed of the operator, all of which will be hereinafter more fully described, and particularly pointed out in the claims.

In the drawings, Figure 1 is a view in perspective of my improved copy-holder as it appears attached to an ordinary writing-machine. Fig. 2 is a detail of the hand feeding or controlling device; and Fig. 3 is a rear view of the hood or cover, showing the manner of securing and bracing said hood to its supporting-shaft.

A is a clamp provided with a thumb-screw *a*, and B is a similar clamp, which form the bearings for the journals of a vertical shaft C, which is mounted in said bearings, secured to and parallel with one of the posts of the machine, and of course it will be understood that the configuration of said clamps will cor-

respond to the make of various machines upon which the holder is to be applied. Secured to this vertical shaft C is a hood or cover D by means of the screws *c c*, and to the outer end of said hood is secured by the screws *d d* a bearing E, which forms a support for the outer end of the journal of a roller F, the inner end of which is journaled in the vertical shaft C and extends through said shaft, and its extreme end *e* is provided with a ratchet-wheel F', by means of which said roller may be rotated through the medium of the pawl *g* on the pitman G, the lower end *g'* of which is attached to a key-lever H, fulcrumed to the shaft C by the screw *h*. The rear portion D' of said hood extends downward a suitable distance, and its lower inside end is secured to the shaft C, as shown in Fig. 3, to form a rigid support for said hood, and consequently add to the stability of the roller F.

The key-lever H is provided with a hinge I, and to the bolt *i* of said hinge the pitman G is secured. The object of securing said pitman at this point is to allow the holder containing the manuscript to be adjusted to suit the convenience of the operator without changing the position of the key-lever H.

K is a friction-roller mounted upon a spring-arm *k*, secured to the rear portion of the hood, and said roller projects through a slot *d'* in said hood, so as to impinge on the roller F and carry the paper between them when said roller F is operated.

L is an apron hinged at *l l* to the hood D, so that when the manuscript to be copied is inserted behind said apron and pushed upward until it is caught between the rollers F and K the line to be copied is seen through the space M in the upper portion of said apron, and that line only, as the rest of the matter is hid from view by the hood and the apron, and consequently the thoughts of the operator are not distracted by too much matter being presented at a time, and also the general context of the copy is kept from observation by unauthorized persons. This apron L is provided with a thumb-button *l'*, by means of which it may be raised whenever it is desired to view the whole manuscript.

N is a parallel slide mounted on the apron

L by the pitmen *n n* and operated by a button *n'*, and in its normal position, as shown in Fig. 1, it rests upon a stud *n<sup>2</sup>*, in which position the reading-space M is open to its full extent, while if said slide N be raised by the button *n'* the space M may be contracted to correspond to the lines of the manuscript being copied.

P is an arm pivotally secured to the shaft C, and it forms a guide for the pitman G, and around said pitman is mounted a spiral spring *p*, the lower end of which rests upon said guide-arm P, and its upper end is confined by a collar *p'*, adjustably secured to said pitman, the operation of the parts being to hold the pitman and key-lever in their normal position with the pawl *g* above and out of contact with the ratchet-wheel F', while a slight pressure on the key-lever will cause the pawl on the pitman to engage the ratchet-wheel and rotate the roller F one or two teeth, as may be desired, this operation presenting one or two new lines of the copy to the space M.

The extreme outer end of the roller F is provided with a milled-head thumb-screw R, by means of which the roller F, carrying the copy, may be moved forward or backward independent of the key-lever.

The pitman G is provided with a screw-swivel *s*, whereby its length may be adjusted to maintain a convenient position of the key-lever.

The operation of the device is as follows: The holder is attached to the left-hand side of the machine, as shown in Fig. 1, by means of the clamps, as above described, and the manuscript is inserted behind the apron L, so that the top of the sheet of the copy will be caught between the rollers F and K to expose the first line of the copy through the opening M, and when that line has been copied, by pressing the key-lever H, the roller

F is rotated to present a second line to view, and so on until the end, and, as before stated, by means of the milled head R the roller carrying the copy may be operated independent of the key-lever. When not in use, the apron may be slightly raised and the holder folded around on the front or key board of the machine.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent of the United States, is—

1. A copy-holder comprising a feed-roller, a pressure-roller, and a swinging apron provided with an adjustable slide secured to said apron by a pair of parallel levers, whereby the visual aperture in said apron may be enlarged or diminished at will, as set forth.

2. A copy-holder comprising a pressure-roller and a feed-roller provided with an independent hand-wheel and a ratchet-wheel operated by a pawl, pitman, and key-lever, said pawl being normally held out of engagement with said ratchet, so that the feed-roller may be operated to move the copy forward or backward independently of the key-lever-operating mechanism, as set forth.

3. A copy-holder comprising a feed-roller, a pressure-roller, and a key-lever adapted to operate said feed-roller, said key-lever being provided with a vertical hinge between its fulcrum and its operating-point, so that the position of the feed-roller may be varied independently of the position of the bar, as set forth.

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

FRANK K. WARD.

Witnesses:

HENRY J. ENNIS,  
JAMES CORRISON.