

(Model.)

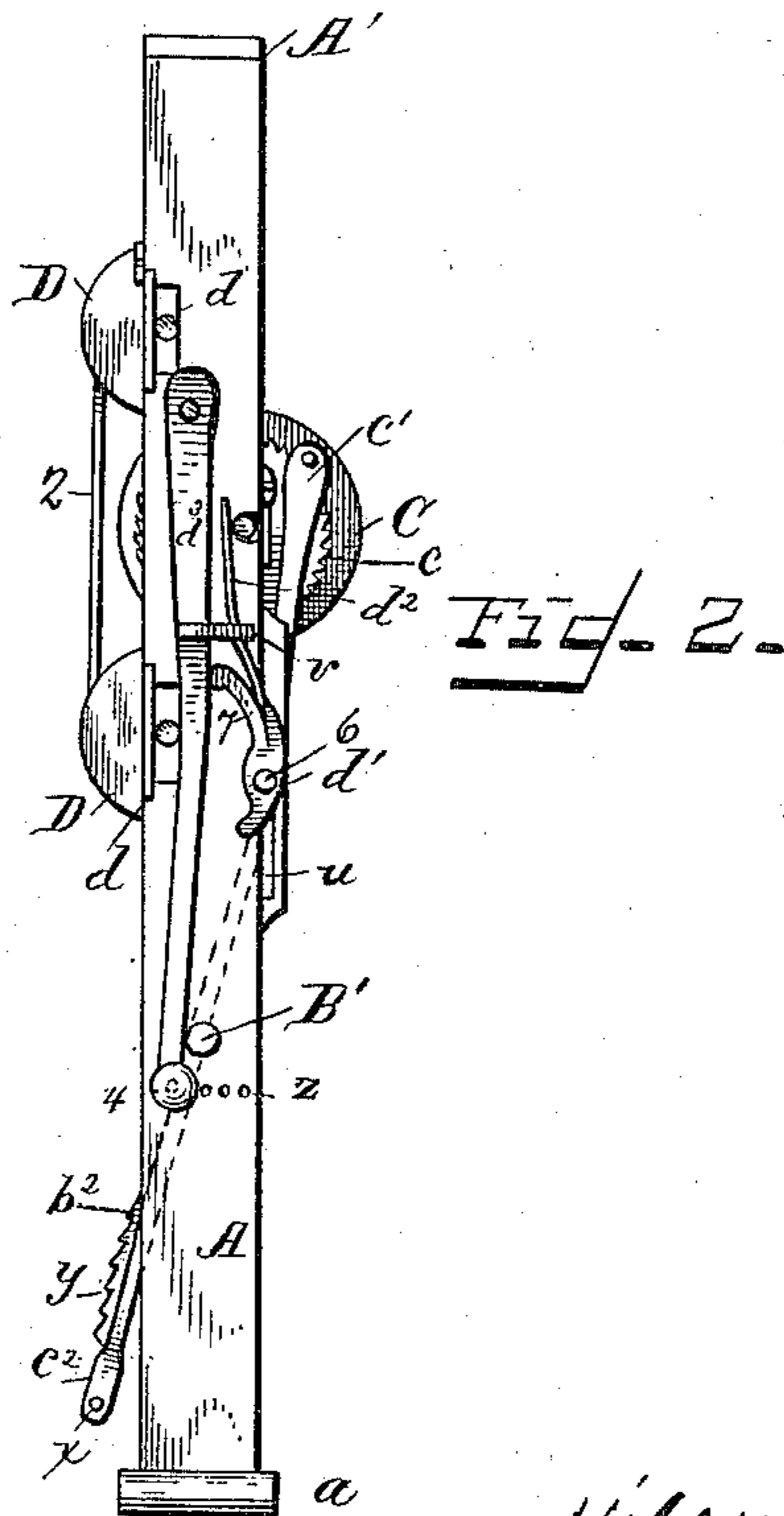
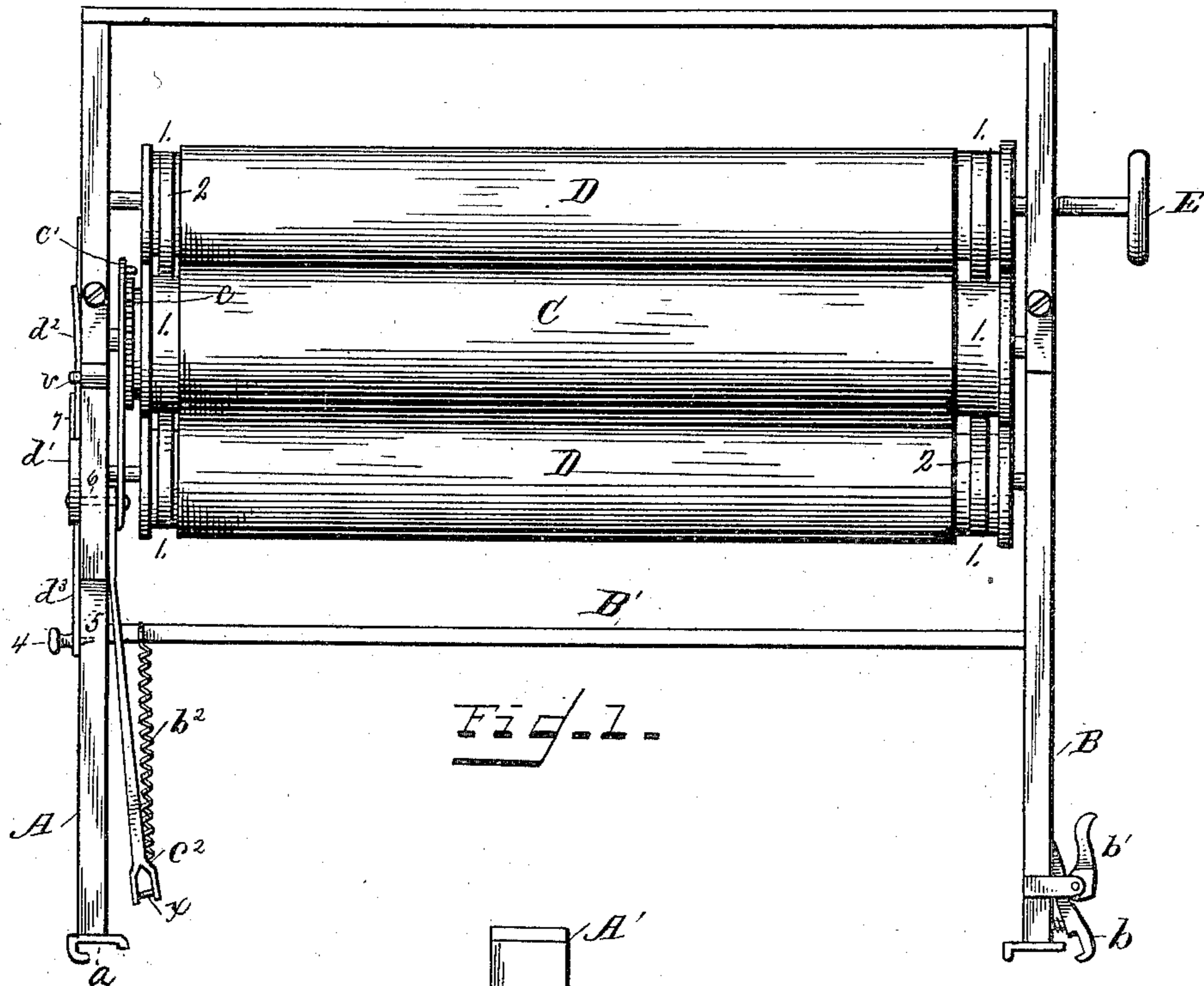
H. H. WHEELER.

COPY HOLDER.

No. 343,935.

A'

Patented June 15, 1886.



WITNESSES

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# UNITED STATES PATENT OFFICE.

HILAND H. WHEELER, OF LINCOLN, NEBRASKA.

## COPY-HOLDER.

SPECIFICATION forming part of Letters Patent No. 343,935, dated June 15, 1886.

Application filed February 16, 1886. Serial No. 192,157. (Model.)

*To all whom it may concern:*

Be it known that I, HILAND H. WHEELER, a citizen of the United States of America, residing at Lincoln, in the county of Lancaster and State of Nebraska, have invented a new and useful Copy-Holder to be used in Connection with Type-Writing Machines, of which the following is a specification.

My invention has relation to improvements in copy-holders for type-writing machines; and the object is to provide such a copy-holder adapted to be fixed to the carriage of a type-writing machine, and to be manipulated by the movements of the hand or carriage lever of the machine, and which will present the copy in a convenient position for reading.

My invention therefore consists in the novel construction of parts and their combination, as will be hereinafter fully described, and especially as pointed out in the claims made hereto.

I have fully illustrated my invention in the accompanying drawings, forming a part of this specification, wherein—

Figure 1 is a rear view, in elevation, of my invention; and Fig. 2 is an end view showing clearly the actuating mechanism, consisting of the ratchet-wheel and pawl-guide and regulating devices connected therewith.

Reference being had to the drawings, the letters A B designate the end pieces or standards of the frame. These standards A and B are constructed to be attached or connected to the side pieces of the carriage of a type-writing machine, and for this purpose the foot of one standard, A, is provided with a catch or dog, *a*, to fit over the frame, and the foot of the other standard, B, is provided with an adjustable dog, *b*, and clamping-lever, *b'*, substantially as shown. The standards are connected by cross-pieces A' and B', which also serve to brace them in vertical position.

The letter C designates the feed-roller, and the letter D the aid-rollers, the latter being arranged, respectively, above and below the feed-roller C, and are journaled in the uprights in slots *d* formed therein, and disposed with their faces projecting slightly in advance of the face of feed-roller, substantially as seen in Fig. 2 of the drawings. In each end of the

rollers C D is formed a groove, 1, to take a band, 2, which is passed over each of the aid-rollers, with both lines of the band in front of the feed-roller C.

On the end of the feed-roller C is rigidly fixed a ratchet-wheel, *c*, arranged between the ends of the roller and the standard A, the purpose of the ratchet being to give intermittent motion to the feed-roller when engaged by the reciprocating pawl *c'*. The lower end of the reciprocating pawl *c'* is rigidly secured to the end of the sliding bearing-pin of the eccentric pawl-guide *d'*, hereinafter described, and pivotally connected to the pawl *c'* or to the pin of the pawl-guide *d'* is an actuating-rod, *c''*, which is adapted to have its lower end connected to the carriage-lever of a type-writing machine, or to the thumb-piece of the carriage-rack instead of the carriage-lever. The lower portion of the actuating-rod *c''* is formed with notches *y*, which hook in the loop of a coiled spring, *d''*, fixed on the cross-piece B', the object being to lift the pawl and rod above and free from engagement with the ratchet-wheel on the feed-roller. The lower end of the rod *c''* being connected with the carriage-lever of the machine, and the carriage-lever being raised to draw the carriage back, the rod *c''* and pawl are drawn downward, which movement brings the pawl in engagement with the ratchet, and to the extent of the movement turns the feed-roller, and of course moves the copy in the rollers accordingly.

Since it becomes necessary to regulate the distance to be covered by the movements of the feed-roller, in order to conform to the varying lines of different copy, I provide for this purpose the following-described mechanism, operated in connection with the mechanism which moves the rollers.

The letter *d*<sup>3</sup> designates a lever, pivotally attached at its upper end to the standard A of the device, and having at its lower end a thumb-piece, 4, and an inwardly-projecting pin, 5, to set in the holes *z* in the standard.

At the proper place on the lever *d*<sup>3</sup> above the sliding pawl-guide is fixed a loop or sleeve, *v*, to take the free end of the spring projected from the sliding pawl-guide.

In the standard is formed a vertically-arranged slot, *u*, and in this slot is disposed the bearing-pin 6, carrying the sliding pawl-guide *d'*, the inner end of the bearing-pin having rigidly attached thereto, as heretofore stated, the lower end of the pawl *c'*, and preferably having pivotally attached thereto the upper end of the rod *c*<sup>2</sup>. The sliding pawl-guide *d'* is rigidly fixed to the outer end of the bearing-pin 6, and has its upper end, 7, extended and formed to bear on the edge of the lever *d*<sup>3</sup>. In the pawl-guide *d'* is fixed a spring, *d*<sup>2</sup>, the free end of which is passed through the sleeve *v*, and is left free to slide therein. The operation of this regulating mechanism is as follows: When the lever *d*<sup>3</sup> is set with its pin in the last pin-hole toward the rear side of the standard, the arm of the pawl-guide is moved correspondingly, and turns the bearing-pin and throws the pawl outward from the ratchet on the feed-roller, causing the pawl to engage each notch of the ratchet, and consequently to move the roller but a short distance. This adjustment will be the desired one when the lines of the copy are close together. For copy of wider lines, the lever is moved in the reverse direction from that stated above, which throws the pawl correspondingly and adjusts the movement to move the roller with the copy a greater space.

For convenience in inserting the copy between the rollers, I extend the journal of the top roller, as shown at 7, and fix to the end of the extended portion a thumb-wheel, *E*. This, however, is not essential, and may be dispensed with.

The manner of using the holder is as follows: The standards are set on the carriage of the type-writing machine, and clamped in position by the clamping device on the foot of one of the standards. The free end of the rod *c*<sup>2</sup> is then connected to the carriage-lever or to the thumb-piece of the machine, and the copy is then inserted between the feed-roller and the bottom roller, and then turned backward over the feed-roller, and passed between the feed-roller and the top roller, so as to present the copy to the eye of the operator. As part of the copy is copied, the sheet is moved between the rollers by the movements of the rollers attained by the action of the pawl, which is reciprocated by the movements of the element of the machine to which it is attached. It will be perceived that but a small portion of the copy is exposed to the eye of the operator, thus enabling him to readily follow the copy.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination, with the rollers *D D*, adjustably journaled in uprights and provided with bands, as 2, of the intermediate or feed roller, *C*, journaled in said uprights and provided with a ratchet-wheel, as *c*, a pawl arranged to slide in its bearing, and a rod piv-

otally attached to the lower end of the pawl and adapted to have its free end connected to the carriage-lever or thumb-piece of a type-writing machine, substantially as described, and for the purpose stated.

2. The combination, with the rollers *D D*, adjustably journaled in uprights and provided with bands, as 2, of the intermediate or feed roller, *C*, journaled in said uprights and provided with a ratchet-wheel, as *c*, a pawl arranged to slide in its bearings, a rod pivotally attached to the lower end of the pawl and adapted to have its lower free end connected to the carriage-lever or thumb-piece of a type-writing machine, and the spring, as *b*<sup>2</sup>, to lift the pawl from the ratchets, substantially as described, and for the purpose stated.

3. The combination, with the copy-holding rollers, of a feed-roller provided with a ratchet on its end and a reciprocating pawl to engage the ratchet and turn the feed roller, said pawl being adapted to have connection with a hand-lever or thumb-piece of a type-writing machine, substantially as described.

4. The combination, with the frame of a copy-holder, its feed-roller, and actuating-pawl, of a pawl-guide, as *d'*, arranged to slide in the frame of the holder and provided with a spring, as *d*<sup>2</sup>, and an adjusting-arm, as *d*<sup>3</sup>, pivoted to the frame, to set against the end of the pawl-guide, and provided with a sleeve to take the spring thereof, whereby the actuating-pawl is thrown in or out to move the feed-roller a greater or less distance, substantially as described, and for the purpose stated.

5. The combination, with the frame of a copy-holder and its feed-roller provided with a ratchet-wheel, of a pawl and pawl-guide fixed to a common bearing and arranged to slide in a bearing on the frame, and said pawl adapted to be connected to the carriage-lever of a type-writing machine, and a lever pivoted to the frame to engage the pawl-guide and throw the pawl in or out from the ratchet, whereby the feed-roller is moved a greater or less distance, substantially as described, and for the purpose stated.

6. The combination, with the frame of a copy-holder and its feed-roller provided with a ratchet-wheel, of a pawl and pawl-guide fixed to a common bearing and arranged to slide in a bearing on the frame, and said pawl adapted to be connected to the carriage-lever of a type-writing machine, a lever pivoted to the frame of a copy-holder to engage the pawl-guide and throw the pawl in or out from the ratchet, whereby the feed-roller is moved a greater or less distance, and a spring, as *d*<sup>2</sup>, to lift the pawl from engagement with the ratchet, substantially as described.

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Witnesses:

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