M. W. SWABB.

COPY HOLDER.

APPLICATION FILED SEPT. 17, 1914.

1,160,211.

Patented Nov. 16, 1915.

3 SHEETS—SHEET 1.

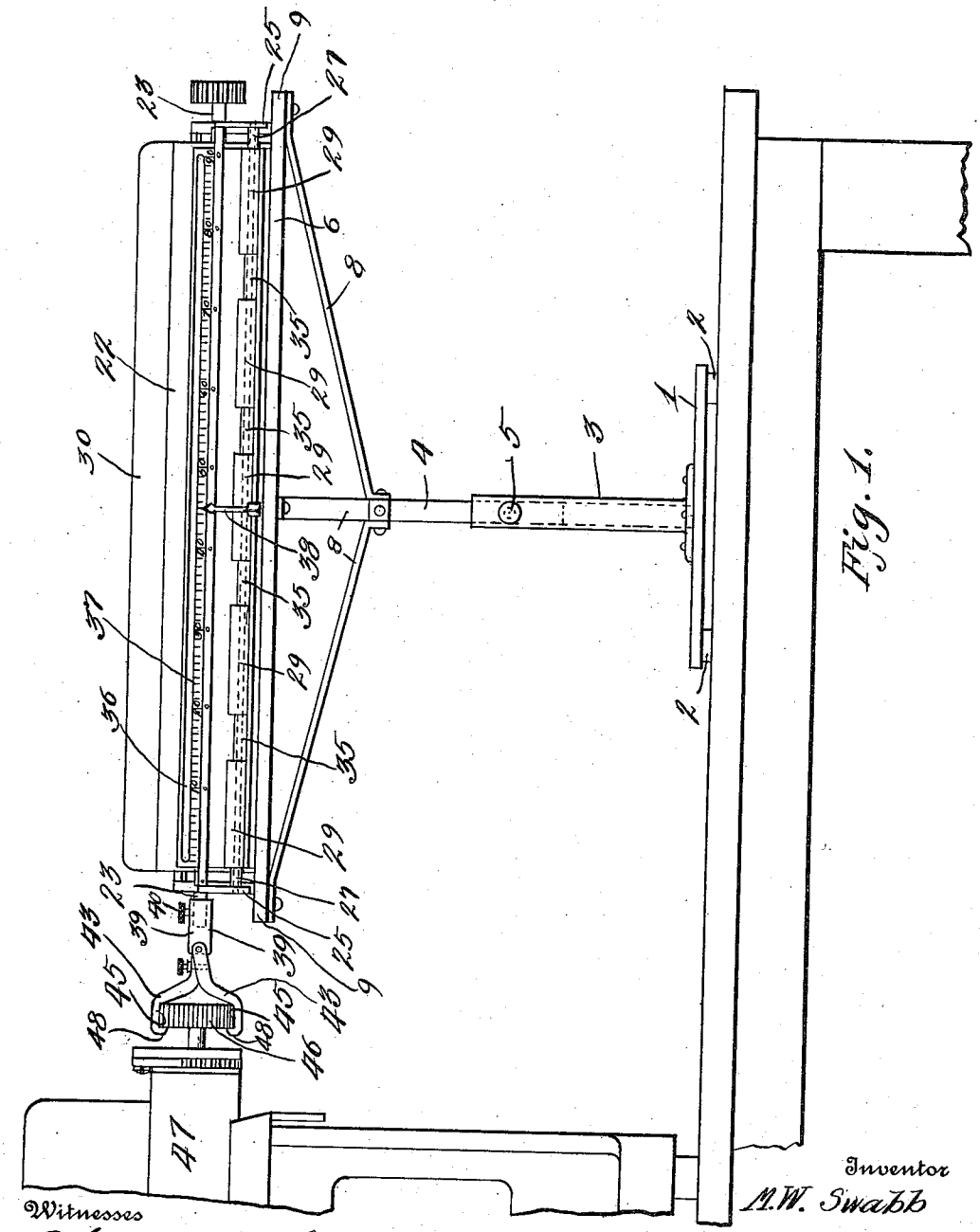


Fig. 1.

Witnesses

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3 SHEETS—SHEET 2.

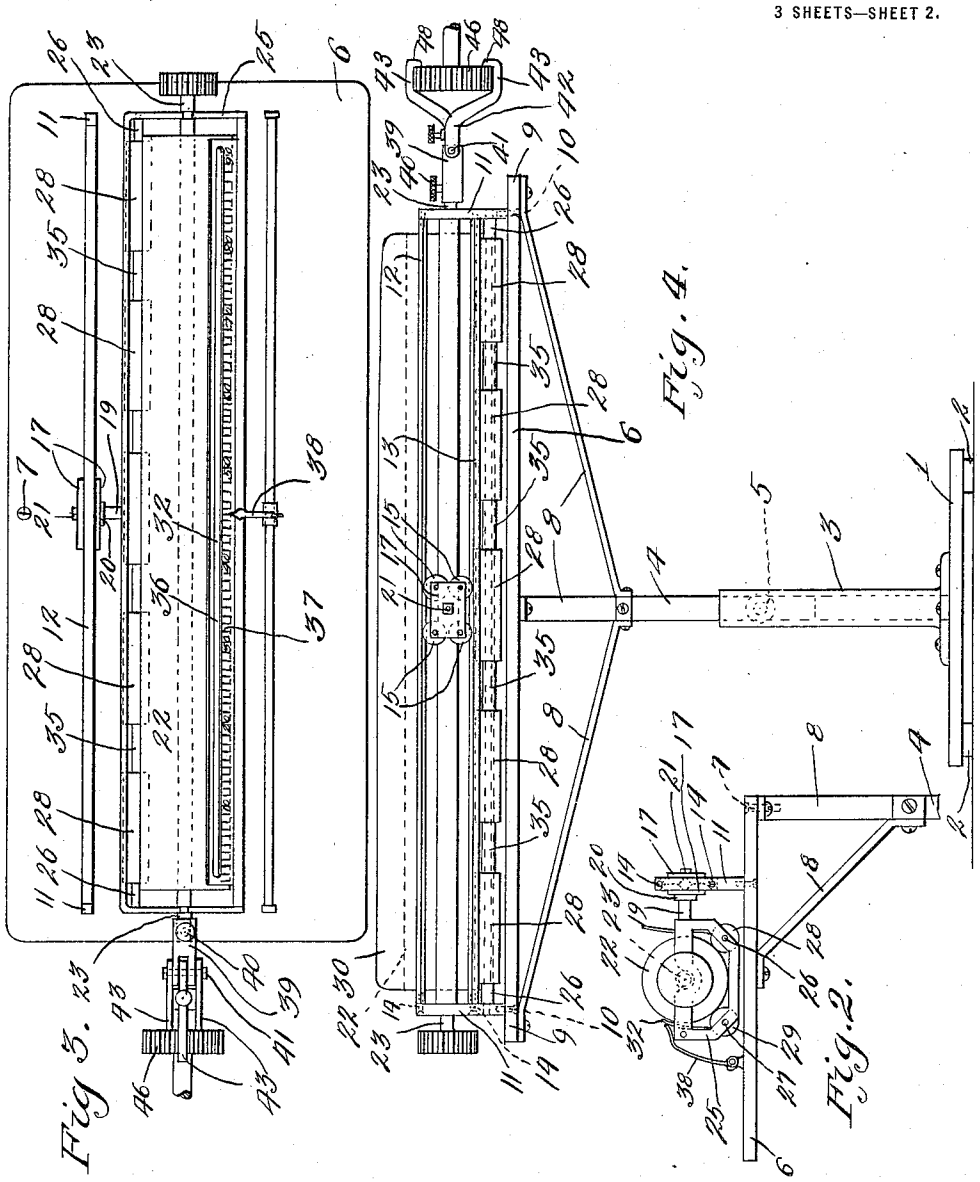


Fig. 4.

Fig. 5.

Fig. 2.

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3 SHEETS—SHEET 3.

Fig. 5.

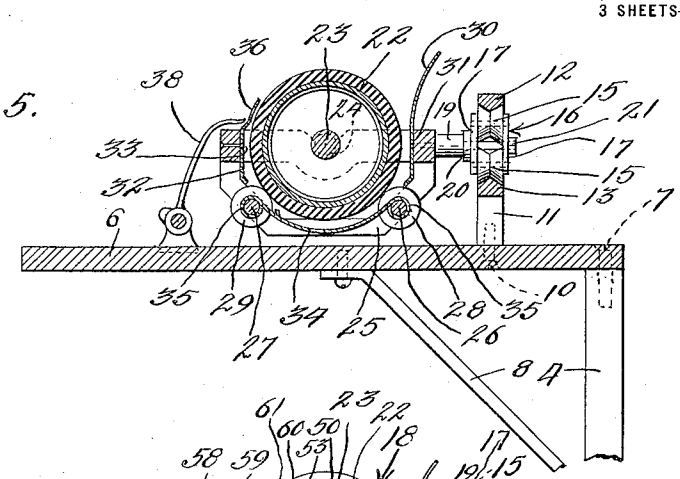


Fig. 8.

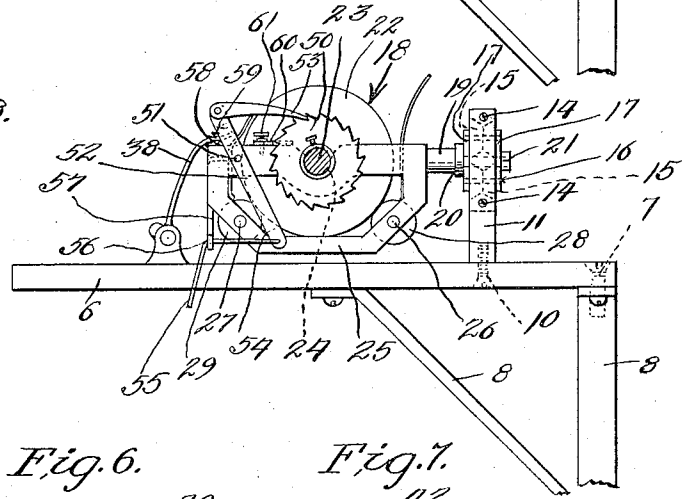


Fig. 6.

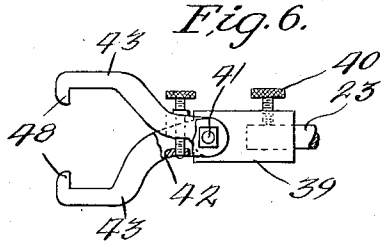


Fig. 7.

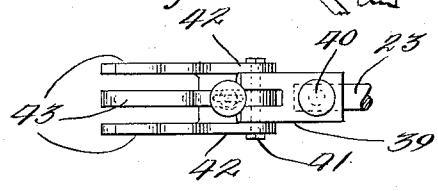
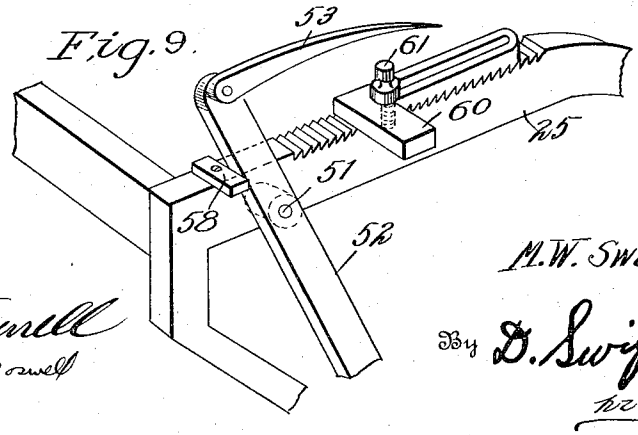


Fig. 9.



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UNITED STATES PATENT OFFICE.

MATTHEW WENDELL SWABB, OF JOHNSTOWN, PENNSLYVANIA.

COPY-HOLDER.

1,160,211. Specification of Letters Patent. Patented Nov. 16, 1915.

Application filed September 17, 1914. Serial No. 862,141.

To all whom it may concern:

Be it known that I, MATTHEW W. SWABB, a citizen of the United States, residing at Johnstown, in the county of Cambria and State of Pennsylvania, have invented a new and useful Copy-Holder; and I do hereby 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.

This invention relates to the art of copy holders, and particularly to a copyholder adapted for use in connection with a typewriter.

As an object of the invention it is the aim to provide a copyholder having means for detachably connecting the same to the knob of the cylinder of a typewriter carriage, whereby as the carriage moves transversely of the machine, and an intermittent motion imparted to the cylinder of the carriage, the copyholder will correspondingly move.

Another object of the invention is to provide a copyholder, whereby the copy is held in its proper position, and each line to be copied, and each letter and word of each line indicated, so that a facsimile of the copy may be made on the typewriter.

In practical fields the details of construction may necessitate alterations, falling within the scope of what is claimed.

The invention comprises further features and combination of parts, as hereinafter set forth, shown in the drawings and claimed.

In the drawings:—Figure 1 is a view showing the front portion of a typewriter and a portion of the carriage, illustrating the improved copyholder connected to the knob of the cylinder of the typewriter carriage. Fig. 2 is an end view of the copyholder. Fig. 3 is a plan view. Fig. 4 is a rear view. Fig. 5 is a sectional view transversely of the copyholder. Fig. 6 is an enlarged detail view of the clamping means for attaching the copyholder to the knob of the cylinder of a typewriter carriage. Fig. 7 is a plan view of the structure shown in Fig. 6 illustrating the clamps 43. Fig. 8 is a view in end elevation illustrating the ratchet 50 and the mechanism coöperating therewith. Fig. 9 is a fragmentary plan view, more clearly illustrating the stops 58 and 60.

Referring more particularly to the drawings, 1 designates a base member having rubber feet 2, and rising from the base member is a socket 3, in which a vertical standard 4 is adjustably held by a set screw 5. A rectangular frame 6 is secured at its rear portion by means of a screw 7 to the upper end of the standard 4. Braces 8 connect the end pieces 9 of the rectangular frame 6 and said standard, thereby bracing the frame 6 relative to the standard. Secured by screws 10 to the end pieces 9 and rising vertically therefrom are posts 11, which are connected by the longitudinal strips 12 and 13, by means of the screws 14. The adjacent faces of the strips 12 and 13 are V-shaped, thereby forming tracks for the V-shaped groove rollers 15 of the truck or carriage 16. This carriage comprises two plates 17 spaced apart, with the rollers 15 between them on pins, which are mounted in bearings of said plates. The copyholding carriage 18 is provided with a rearwardly and centrally disposed extension 19 having an integral collar 20, and a portion of the extension beyond the collar 20 extends through the plates 17 and provided with a nut 21, thereby connecting the copyholding carriage to the carriage or truck 16. A cylinder 22 has its pintles 23 mounted in bearings 24 of the ends of the carriage 18. Connected to the end of the carriage 18 are U-shaped end plates 25, and connecting said plates are small rods 26 and 27, on which rollers 28 and 29 are mounted. These rollers act to hold the copy against the roller or cylinder 22. A sheet metal copy guard 30 is secured at 31 to the carriage 18 at the rear, and a second copy guard 32 is secured at 33 to the forward portion of the carriage 18. A third copy guard 34 is located under the cylinder or roller 22 and has portions 35, through which the rods 26 and 27 extend, thereby securing the guard 34 in place. The guard 32 is provided with an elongated slot 36, and a scale 37, with which an indicator or pointer 38 coöperates, to indicate each letter of each word of the copy, so as to render it easy for the operator to make a facsimile of the copy upon the sheet in the typewriter.

One of the pintles 23 of the cylinder 22 has a sleeve 39 secured to it by a set screw 40. Pivoted by a screw 41 in a bifurcation of the sleeve or member 39 are the shanks 42 of the clamps 43. The adjacent edges of said clamps 43 are of such a shape as to engage opposite grooves 45 of the knob 46 of the platen roller or cylinder 47 of the typewriter. The hook portions 48 of said clamps overhang said knob, to prevent accidental

detachment of said clamps. It will be observed that as the typewriter carriage moves transversely the carriage 18 and the truck 16 will correspondingly move, and the pointer or indicator 38 will indicate each letter and each word of each line of the copy as it is written. When the typewriter carriage reaches the end of a line, the platen roller or cylinder is given a partial revoluble movement, at the same time the typewriter carriage is returned to its normal position for beginning a new line, and as this partial rotary movement is imparted to the platen roller, the copy roller is correspondingly rotated. In this manner a facsimile of the copy may easily be made.

Also upon one of the pintles 23 of the cylinder or roller 22 is a ratchet wheel 50, and pivoted at 51 to one end of the carriage 18 is a lever 52 having a pawl 53 for engagement with said ratchet. Connected to the end 54 of the lever 52 is a cord or cable 55, which passes through an opening 56 of the arm 57. A stop device 58 is fixed to the carriage 18 to limit the backward movement of the lever 52, there being a spring 59 to return the lever 52 to its normal position in contact with the stop 58. A second stop 60 is adjustably mounted on the carriage 18 by means of a set screw 61, so as to limit the lever in its forward movement. As the lever 52 is tilted, the pawl will act to engage and push or partially rotate the ratchet 50 and the cylinder 22, the stop device 60 designed to be adjusted, so as to limit the roller or cylinder 22 for making single spaced lines, double or triple spaced lines, so that the roller or cylinder 22 will act in unison with the platen roller or cylinder of the typewriter. The cable or cord 55 is designed to be connected to a foot pedal (not shown), or to the spacing bar (not shown) of said typewriter, whereby a requisite intermittent motion may be imparted to the cylinder or roll 22. This ratchet mechanism for imparting an intermittent motion to the roller or cylinder 22 is used only when the clamping members are not connected to the knob of the platen roller of the typewriter.

The invention having been set forth, what is claimed as new and useful is:—

1. In combination with a typewriter having a platen roller, a supporting frame having a carriage guide, a copy holding carriage including a copy holding platen roller mounted in said guide, said copy holding and typewriter platen rollers being axially arranged, said copy holding platen roller carrying clamping means at one end to clamp the knob of the platen roller of the typewriter, so that the copy roller will respond to every movement of the platen roller for making facsimiles of the copy.

2. In combination with a typewriter having a platen roller, a copy holder comprising a frame, a copy holding carriage and platen roller mounted on the frame for transverse movement thereof, both of the platen rollers being axially arranged and detachable connections between the copy holding platen roller and a knob of the platen roller of the typewriter.

3. In combination with a typewriter having a platen roller, a copy holder comprising a frame, a copy holding carriage and platen roller mounted on the frame for transverse movement thereof, both of the platen rollers being axially alined and detachable connections between the copy holding platen roller and a knob of the platen roller of the typewriter, said detachable connections comprising a sleeve detachably secured on one of the pintles of the copy roller, pivoted clamping jaws carried by the sleeve, and a set screw for adjusting the jaws toward each other, whereby the knob may be clamped therebetween.

4. In combination with a typewriter having a platen roller, a copy holder comprising a frame, a copy holding carriage and platen roller mounted on the frame for transverse movement thereof, both of said platen rollers being axially alined and detachable connections between the copy holding platen roller and a knob of the platen roller of the typewriter, and means for adjusting said frame to suit typewriters of different heights.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

MATTHEW WENDELL SWABB.

Witnesses:

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JOSEPH CAUFFEIL.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."