

J. C. McLAUGHLIN.
TYPE WRITING MACHINE.
APPLICATION FILED SEPT. 28, 1911.

1,069,891.

Patented Aug. 12, 1913.

FIG. 1.

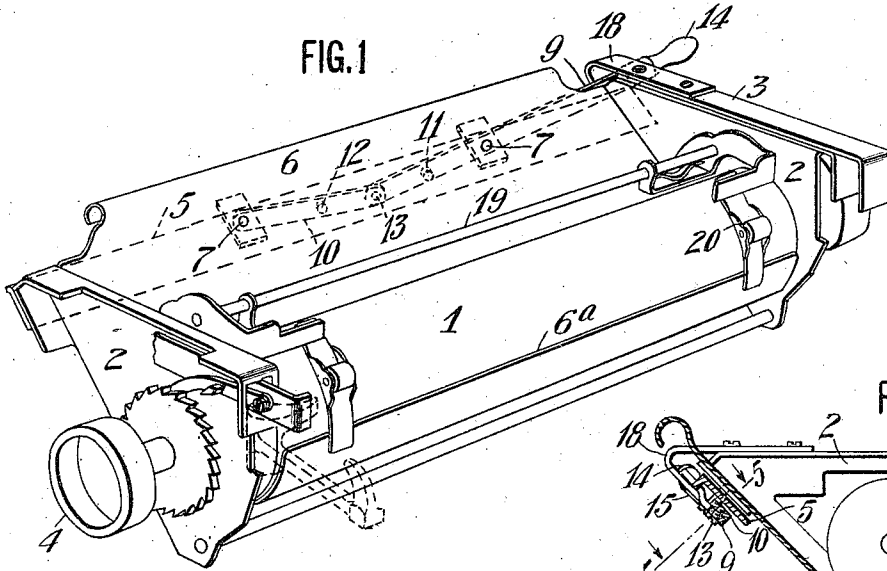


FIG. 2.

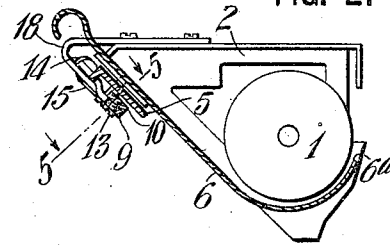


FIG. 3.

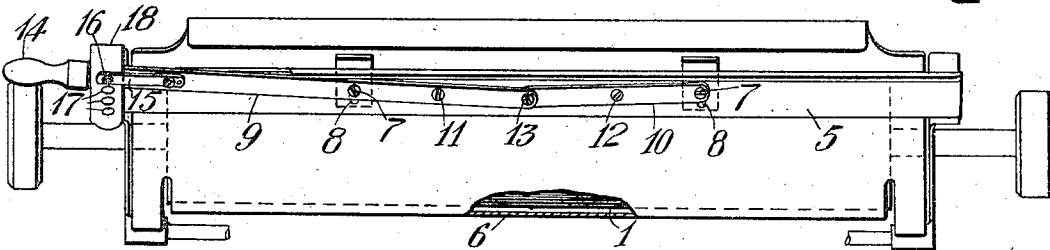


FIG. 4.

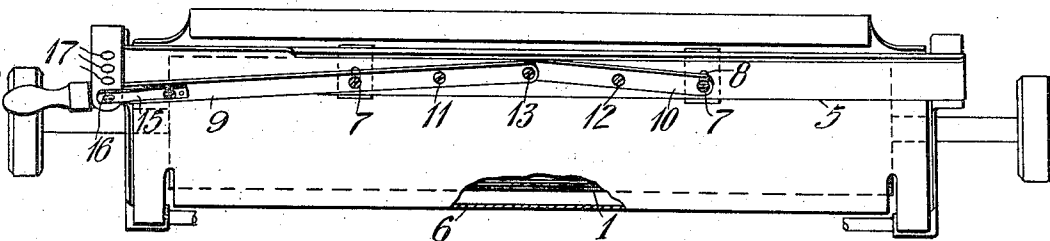
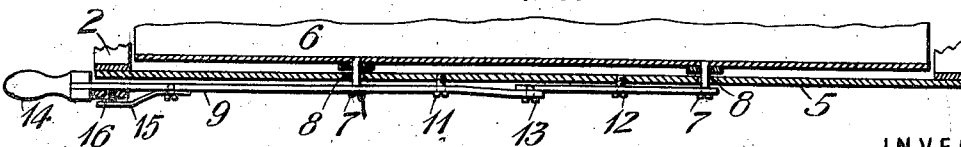


FIG. 5.



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UNITED STATES PATENT OFFICE.

JOHN C. McLAUGHLIN, OF JERSEY CITY, NEW JERSEY, ASSIGNOR TO UNDERWOOD TYPEWRITER COMPANY, OF NEW YORK, N. Y., A CORPORATION OF DELAWARE.

TYPE-WRITING MACHINE.

1,069,891.

Specification of Letters Patent.

Patented Aug. 12, 1913.

Application filed September 28, 1911. Serial No. 651,723.

To all whom it may concern:

Be it known that I, JOHN C. McLAUGHLIN, a citizen of the United States, residing in Jersey City, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Type-Writing Machines, of which the following is a specification.

This invention relates to paper controlling means for typewriting machines.

My improvement relates to means for adjusting the paper shelf so that it will fit closely around the bottom of the platen if desired in using thin sheets, but it can be adjusted to take thick layers of paper, or to permit sheets to be introduced at the front of the platen.

The invention I have illustrated as applied to an Underwood machine. The paper shelf is shown arranged to slide up and down on the usual rod which reinforces or supports it, and it is easily adjusted thereon by means of a handle.

In the accompanying drawings, Figure 1 represents a perspective view of my improvement as applied to the platen-frame or carriage of an Underwood typewriter. Fig. 2 is a transverse section of the same. Figs. 3 and 4 are rear views showing the parts in various positions. Fig. 5 is a section of Fig. 2 on the line 5-5.

In the drawings 1 is the platen supported in the usual way on the end plates 2 of a platen-frame 3 on which it may be turned by knob 4. At the back of the end plates 2 of the platen frame, extending across and connecting them, is a bar 5 on which the usual paper shelf 6 is supported. The shelf is shown extending forwardly and curving under the platen and around to the front at 6^a.

The means of support herein shown, comprises two studs or pins 7 fixed on the paper-shelf and extending through openings or slots 8 of said bar 5. These pins are pivoted to levers 9 and 10, pivoted at 11 and 12 in said bar 5 respectively. Said levers 9 and 10 are loosely linked together by a pin 13, and lever 9 is extended at one end to form a handle 14, by which it may be moved. Thus it will be seen that the two levers move together, swinging around their pivots, and are adapted to move the shelf 6 nearer and farther from the bottom of the platen 1 by

moving the pins 7; the curved guide or apron 6^a always keeping in parallelism with the platen.

On lever 9 is provided a spring 15 having a detent 16, which is adapted to fit in one of a series of holes 17 on a guide 18, under which lever 9 passes, and thus lock the paper shelf in any desired position, to accommodate varying thicknesses of the work.

The platen frame is provided with the usual rod 19, carrying the front pressure rolls 20 for holding the paper in place. In Fig. 3, the paper shelf 6 is shown raised, to guide thin sheets, and in Fig. 4 depressed, to accommodate thick sheets, or to permit sheets to be inserted downwardly at the front of the platen and rearwardly under the same.

In operation, the guide 6^a is first depressed, the paper is inserted at the back from above in the usual manner (or at the front), then the guide 6^a is readjusted to suit the work in hand, and the platen is turned. The paper may be passed under the adjustable pressure rolls 20 and then aligned.

Variations may be resorted to within the scope of the invention, and portions of the improvements may be used without others.

Having thus described my invention, I claim:

1. In a typewriter, the combination of a platen, a platen frame, rolls adapted to press a sheet against said platen, a paper shelf co-operating with said rolls to hold a sheet against said platen, a bar supported from the sides of said platen frame, members supported on said bar carrying said paper shelf, and means connecting said carrying means to set said paper shelf bodily up and down to and from said platen.

2. In a typewriter carriage, the combination with a platen, of a member partially encircling said platen for guiding a sheet around said platen, a bar on said carriage, slots in said bar, pins riding in said slots and supporting said encircling member, and means for moving said pins in said slots.

3. In a typewriting machine, the combination with a platen frame and a platen journaled therein, of a paper shelf at the rear of the platen and curving forwardly beneath and around the same to form a paper-guiding apron, means connecting said paper

shelf and apron to said platen frame for adjusting the apron bodily downward, to clear a passage for the introduction of the work, and means for locking the paper shelf and apron in different working positions.

4. The combination with a platen and platen frame in which it is journaled, of a combined paper shelf and guiding-apron curving around the platen, means for lowering said paper shelf and apron bodily to facilitate the introduction of the work, and means for locking the paper shelf and apron in different working positions.

5. In a typewriter, the combination with a platen and a platen frame, of a member partially encircling said platen for guiding a sheet around said platen, said platen frame having a bar, slots in said bar, pins riding in said slots, levers pivoted on the bar connecting said pins, a handle for moving said levers, and locking means for said handle.

6. The combination of a platen, a platen frame, a shelf curving around the under side of the platen to guide the sheets around the same, and means to guide the shelf bodily up and down, including a linkage connect-

ing said shelf to said platen frame for bodily movement in parallel lines.

7. The combination of a platen, a platen frame, a shelf curving around the under side of the platen to guide the sheets around the same, and means to move the shelf bodily up and down, including a linkage connecting said shelf to said platen frame for bodily movement in parallel lines; said linkage comprising two levers pivotally connected to each other and each pivoted to the platen frame.

8. The combination of a platen, a platen frame, a shelf curving around the under side of the platen to guide the sheets around the same, means to guide the shelf bodily up and down, including a linkage connecting said shelf to said platen frame for bodily movement in parallel lines, and means for locking said apron in different working positions.

JOHN C. McLAUGHLIN.

Witnesses:

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