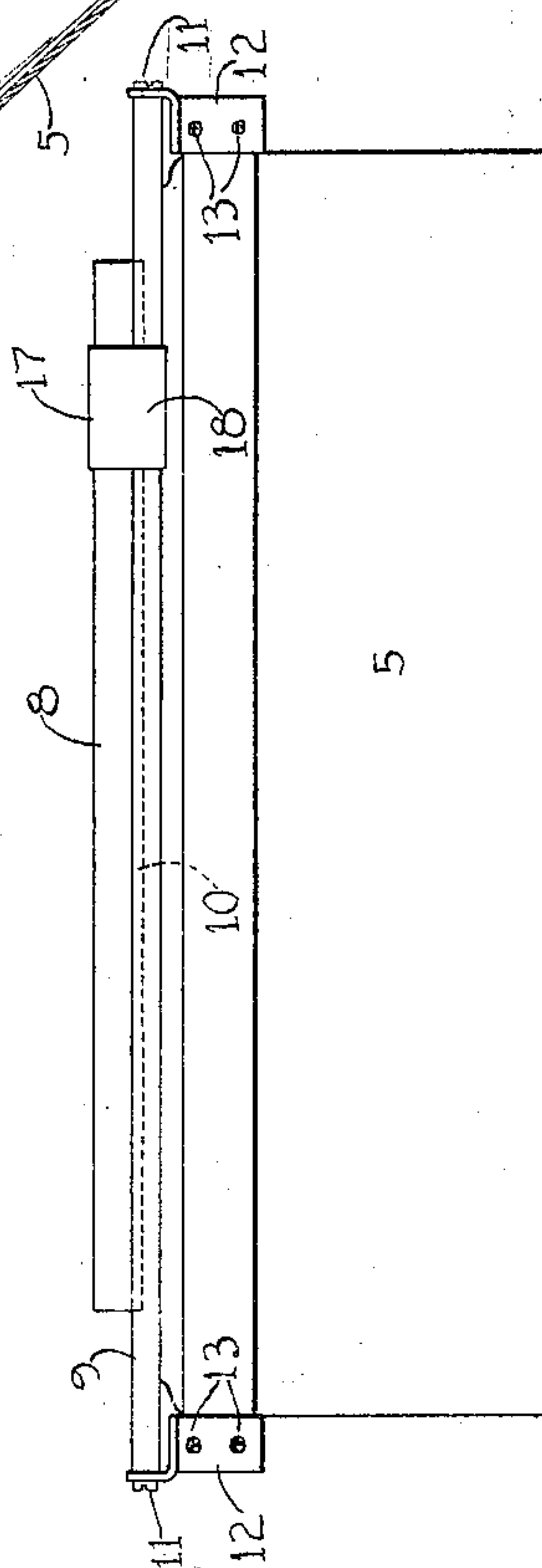


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921,876.

Patented May 18, 1909.



INVENTOR:  
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# UNITED STATES PATENT OFFICE.

LOUIS NEY, OF HARTFORD, CONNECTICUT, ASSIGNOR TO UNDERWOOD TYPEWRITER COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW JERSEY.

## TYPE-WRITING MACHINE.

No. 921,876.

Specification of Letters Patent.

Patented May 18, 1909.

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*To all whom it may concern:*

Be it known that I, LOUIS NEY, a citizen of the United States, residing in Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Type-Writing Machines, of which the following is a specification.

This invention relates to paper shelves and to gages for the side edges of the paper at the introductory side of the platens of typewriting machines.

It is the practice to secure the gages, in the form of clips, directly upon the paper shelf; but this is found objectionable, because in adjusting the clips along the shelf the latter becomes scratched and marred; and this frequently necessitates removal of the paper shelf from the machine and the substitution of a new one therefor, at considerable expense.

One object of this invention is to avoid this difficulty and provide a practicable means of mounting the side gage without liability of marring the shelf.

The paper shelf in an Underwood typewriting machine, to which the invention is shown applied, is usually formed at its rear or upper edge with a rolled rim. According to the present invention, a rod extends along the edge of this rim and is rigidly secured thereto, and the clip portion of the side gage is coiled closely around the rod and supported thereby, and does not contact with the rear portion of the paper shelf, and hence cannot mar the same; this being the portion which is conspicuous in the machine. The rod further serves to stiffen the paper shelf and in fact the entire platen frame, the ends of the rod being fastened to brackets which are secured upon the platen frame ends.

In the accompanying drawings, Figure 1 is a front perspective view of the platen frame of an Underwood typewriting machine, with the present improvements applied thereto. Fig. 2 is a rear view of the paper shelf and its associated devices. Fig. 3 is a sectional side elevation of the parts seen at Fig. 1.

The usual cylindrical platen 1 is journaled by means of an axle 2 in ends 3, 4, of a platen frame, the latter also comprising a connecting plate 5, which forms the paper shelf on the introductory side of the platen, upon which the sheets are laid as they are intro-

duced between the platen and the pressure rolls 6, 7. At its rear or upper edge, the paper shelf 5 is usually rolled over to form a tubular rim 8. A stiffening rod 9 is slotted longitudinally at 10 to receive the edge portion of the rolled rim 8, as seen clearly at Figs. 2 and 3; the rod being secured to the side edge in any desired manner, as for instance by forcing the edge into the rod for the entire length of the edge. The ends of the rod are fastened by screws 11 or otherwise in brackets 12, secured by screws 13 upon flanges 14 provided upon the opposite platen frame ends. The rod thus stiffens the paper shelf and also the entire platen frame.

A gage 15 for the side edge of the paper is bent up from a body portion 16, formed of sheet metal, and at its upper end extended at 17 to curve back over the rolled rim 8 of the paper shelf. At its extreme rear portion, the extension 17 is coiled at 18 entirely around and closely fitted to the rod 9, Figs. 2 and 3, so as to be supported thereby.

The rear portion of the clip and in fact substantially all thereof is supported entirely out of contact with the paper shelf, so that it is impossible to mar the latter in adjusting the clip along the same. The bottom or forward end of the body 16 may touch lightly upon the paper shelf at that portion thereof which is hidden behind the platen, where the existence of a scratch upon the shelf would not be objectionable. The paper shelf prevents the rocking of the gage downwardly, and the coil 18 is extended far enough around the rod 9 to engage the inner face of the rolled rim 8 of the paper shelf, so that the gage is prevented from vibrating up and down.

Having thus described my invention, I claim:

1. In a typewriting machine, the combination with a paper shelf at the introductory side of the platen, said shelf at its rear edge having a rolled rim, a stiffening rod extending along said edge, and secured thereto, and a gage for the side edge of the paper, said gage at its rear portion wholly out of contact with the paper shelf, and coiled around said stiffening rod to be supported thereby.

2. In a typewriting machine, the combination with a paper shelf at the introductory side of the platen, said shelf at its rear edge having a rolled rim, a stiffening rod extend-



ing along said edge and secured thereto, a gage for the side edge of the paper, said gage at its rear portion wholly out of contact with the paper shelf, and coiled around said stiffening rod to be supported thereby, said paper shelf forming part of a platen frame provided with ends, and means upon said ends to which said rod is secured by its ends.

3. In a typewriting machine, the combination with a paper shelf at the introductory side of the platen, said shelf at its rear edge having a rolled rim, a stiffening rod extending along said edge and secured thereto, and a gage for the side edge of the paper, said gage at its rear portion wholly out of contact with the paper shelf, and coiled around said stiffening rod to be supported thereby, said rod slotted longitudinally to receive said edge of the paper shelf.

4. The combination with a paper shelf having a rolled tubular rim, of a stiffening rod slotted longitudinally to receive the edge portion of the rolled rim and rigidly secured thereto, said rod rigidly fastened at its ends to the ends of a platen frame, of which said paper shelf forms a part, and a clip or gage carried upon said rod out of contact with the rear portion of the paper shelf.

5. The combination with a paper shelf having a rolled tubular rim, of a stiffening rod slotted longitudinally to receive the edge portion of the rolled rim and rigidly secured thereto, and a clip or gage carried upon said rod out of contact with the rear portion of the paper shelf; the end of the clip or gage coiled around the rod far enough to engage the inner face of the rolled rim, to hold the clip or gage from lifting from the paper shelf.

6. In a typewriting machine, the combination with a paper shelf at the introductory side of the platen, said shelf at its rear edge having a rolled rim, a stiffening rod extending along said edge and secured thereto, and a gage for the side edge of the paper, said gage at its rear portion wholly out of contact with the paper shelf, and coiled around said stiffening rod to be supported thereby; the end of the gage coiled around the rod far enough to engage the inner face of the rolled rim, to hold the gage from lifting from the paper shelf.

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Witnesses:

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