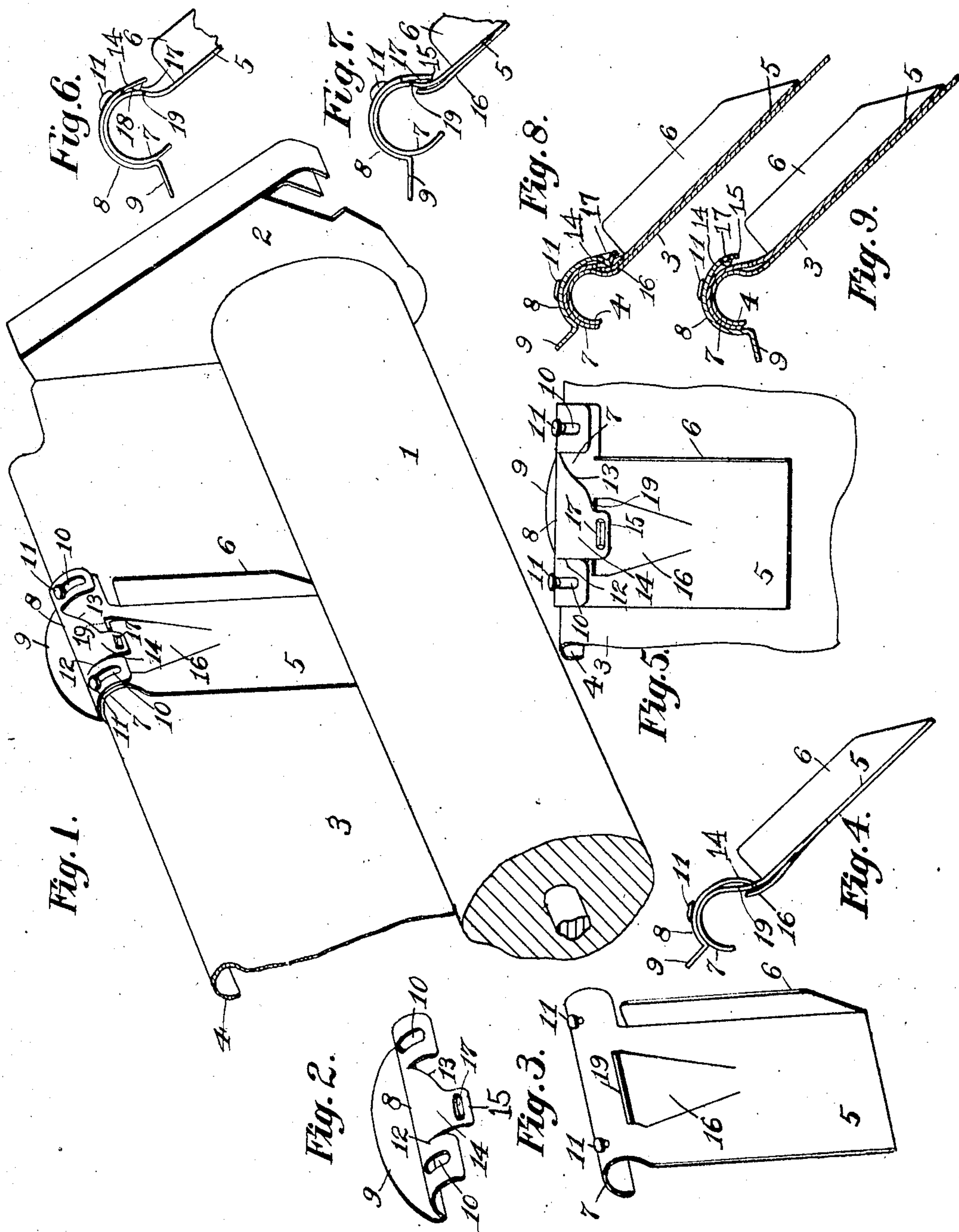


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TYPE WRITING MACHINE.
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FRANK C. URSBRUCK, OF NEW YORK, N. Y., ASSIGNOR TO UNDERWOOD TYPEWRITER COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW JERSEY.

TYPE-WRITING MACHINE.

No. 913,537.

Specification of Letters Patent.

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To all whom it may concern:

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

This invention relates to gages for the side edges of the paper, placed at the introductory side of the platen of a typewriting machine. These gages are usually adjustable along the platen, and the principal object of the invention is to provide simple and effective means for releasing the gage for adjustment and re-securing it after adjustment; the invention being of special value in connection with machines of the Underwood type, in which a paper shelf inclines upwardly and rearwardly from the platen and generally terminates in a cylindrical roll or tubular rim.

In carrying out my invention, I employ a gage member which is fitted on said tubular rim and slides therealong. Upon this gage member I fit a sleeve, to inclose that portion of the gage member which hooks over said tubular rim. This sleeve can rotate about the axis of said tubular rim, and is provided with means to bind the gage member to prevent displacement thereof along the paper shelf. Preferably a tongue is formed in the flat body of the gage member, which lies closely against the paper shelf, and said rotatable sleeve has a projection to engage said tongue to press it against the paper shelf; there being sufficient friction to prevent the sleeve from loosening its hold upon the tongue. The tongue has a broad surface which is pressed against the paper shelf, so that there is no liability of scratching or marring the latter. The sleeve is provided with a finger-hold; and it is only necessary to press the same back in order to release the gage member for adjustment, and then to press the finger-hold forwardly in order to clamp the gage member to the paper shelf.

In the accompanying drawings, Figure 1 is a perspective front view of part of a platen frame and platen of an Underwood front strike writing machine provided with my improvements. Fig. 2 is a perspective view of a sleeve that fits upon the tubular hook portion of the gage member. Fig. 3 is a perspective view of the gage member. Fig. 4 is

an edge view of the gage member, showing one form of securing sleeve. Fig. 5 is a front elevation of the gage member locked in position upon the paper shelf. Fig. 6 is an enlarged diagrammatic view of the preferred form of locking sleeve, showing it released. Fig. 7 is a view similar to Fig. 6, but showing the locking sleeve as snapped into locking position. Figs. 8 and 9 are sectional elevations, the former showing the gage clamped to the paper shelf and the latter showing it released for adjustment.

In said machine, the types usually strike upon the front of a cylindrical platen 1, which is mounted in a platen frame comprising ends 2, and a rear paper shelf 3 at the introductory side of the platen, said shelf usually having at its top a cylindrical roll or open tubular rim 4.

The gage member comprises a flat slab or body 5 to lie close upon the surface of the paper shelf 3, and a gage 6 for the side edge of the paper, said gage usually bent up from said body. At its upper end the gage member has a tubular hook 7 to fit over the tubular rim 4 and permit the gage member to be slid along the paper shelf.

The locking sleeve is seen at 8 as curved into open tubular form to fit upon the hook portion 7 of the paper gage, and to turn thereon from back to front or about the axis of the tubular rim 4. It is provided with a hand-hold 9 bent up from its rear edge; and it also has transverse slots 10, through which pass round-headed rivets 11 which secure the sleeve upon the hook 7. Preferably there is considerable frictional opposition to the turning of the sleeve, so that the latter may not be accidentally operated. This friction may be secured by forming the sleeve 8 upon a smaller radius than the hook 4, so that the slots and the rivets 11 may hold the sleeve in a partly opened condition and sprung down upon the hook. In the sleeve are formed two transverse cuts 12 and 13 to separate the slotted ends of the sleeve from the body thereof; thus rendering said slotted ends more yielding, so that they are better adapted to be sprung upon the hook for the purpose of securing friction. The portion between the cuts is prolonged forwardly to form a finger or projection 15, which can press downwardly or backwardly upon a broad tongue 16 formed by slitting the upper portion of the slide or plate 5; the func-

tion of the finger 15 being to press the tongue 16 backwardly against the body of the paper shelf 3, as at Fig. 4, Fig. 8 or Fig. 7, whereby the paper gage is clamped to the paper shelf, or frictionally held against accidental displacement therealong.

In the bottom of the finger 15 is made a relatively long horizontal depression to form a tooth 17, the upper face 18 of which is inclined, as seen best at Fig. 6, so as to snap over the edge 19 of the gage member at the upper end of its spring tongue 16; the bevel inclination of this portion 18 acting upon said edge in a manner to draw the sleeve forwardly in the direction of the arrow at Fig. 7 to permit the tip of the part 17 to press the tongue 16 backwardly; the part 14 being springy and tending to close around the hook 4. Therefore when the finger-hold 9 is pushed backwardly at Fig. 6, the part or detent 17 or 18 is drawn up past the edge 19 and the portion 14 of the sleeve is sprung open; but when said finger-hold 9 is lifted and the tube is turned to carry the detent 17 or 18 downwardly past the edge 19, the springy member 14 re-acts and tends to bring the parts to the Fig. 7 position; this tendency resulting in a pressure of the tongue 16 against the paper shelf 3 sufficient to prevent accidental displacement of the gage along the paper shelf, but without liability of marring the same.

It will be seen that the whole device (except the gage 6) lies flat and snug against the front surface of the paper shelf, and offers no obstruction or impediment to the adjustment or movement of the paper upon the shelf; and also that the sleeve is very light, so that no appreciable weight is added to the paper carriage. It will also be seen that very little change is rendered necessary in the usual type of paper gage, merely the cutting of the tongue 16 and securing the sleeve thereon; and that the entire device may be supplied as a separate article of manufacture to users of the typewriting machines, and readily slipped upon the paper shelf in the usual manner.

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 typewriting machine, the combination with a paper shelf and a cylindrical bearing or support extending therealong, of a gage member for the side edge of the paper, said gage member fitted on said support to slide therealong, a sleeve fitted rotatably upon said gage member, and means to enable the sleeve by its rotation to bind the gage member to prevent displacement thereof along said shelf or support.

2. In a typewriting machine, the combination with a paper shelf and a cylindrical

bearing or support extending therealong, of a gage member for the side edge of the paper, said gage member fitted on said support to slide therealong, a sleeve fitted rotatably upon said gage member, means to enable the sleeve by its rotation to bind the gage member to prevent displacement thereof along said shelf or support; said sleeve having a projecting finger-hold, and means being provided to bind the sleeve on the gage member to prevent accidental rotation of the sleeve.

3. In a typewriting machine, the combination with a paper-shelf and a cylindrical bearing or support extending therealong, of a gage member for the side edge of the paper, said gage member fitted on said support to slide therealong and provided with a tongue, and a sleeve fitted rotatably upon said gage member and provided with a finger-hold whereby it may be rotated, and also having means to press said tongue to bind the gage member to prevent displacement thereof along the shelf.

4. In a typewriting machine, the combination with a paper shelf having a rolled tubular rim, of a member having a gage for the side edge of the paper, said gage member having a tubular part fitted on said rim to be adjustable therealong, a tongue upon said gage member, a cylindrical sleeve fitting rotatably upon said gage member, said sleeve provided with a finger-hold whereby it may be turned upon said tubular part, and also having a finger or projection to press said tongue against said paper shelf or said roll thereon and bind the gage member to the shelf to prevent accidental displacement of the gage member along the shelf.

5. In a typewriting machine, the combination with a paper shelf having a rolled tubular rim, of a member having a gage for the side edge of the paper, said gage member comprising both a plate to lie upon the paper shelf and a tubular part fitted on said rim for adjustment therealong, a tongue being formed upon said plate, and a cylindrical sleeve fitted rotatably upon said tubular part and having a finger-hold, and also having means to press said tongue against said paper shelf.

6. In a typewriting machine, the combination with a paper shelf having a rolled tubular rim, of a member having a gage for the side edge of the paper, said gage member comprising both a plate to lie upon the paper shelf and a tubular part fitted on said rim for adjustment therealong, a tongue being formed upon said plate, and a cylindrical sleeve fitted rotatably upon said tubular part and having a finger-hold, and also having means to press said tongue against said paper shelf; means being provided to secure frictional opposition to the rotation of said sleeve.

7. In a typewriting machine, the combination with a paper shelf having a rolled tubular rim, of a member having a gage for the side edge of the paper, said gage member comprising both a plate to lie upon the paper shelf and a tubular part fitted on said rim for adjustment therealong, a tongue being formed upon said plate, a cylindrical sleeve fitted rotatably upon said tubular part and having a finger-hold, headed studs upon said tubular part of the gage, engaged by slots in said sleeve, and a yielding finger on the sleeve to press said tongue against the paper shelf.

8. In a typewriting machine, the combination with a paper shelf and a cylindrical bearing or support extending therealong, of a gage member for the side edge of the paper, said gage member fitted on said support to slide therealong, a sleeve fitted rotatably upon said gage member, means to enable the sleeve by its rotation to press a part of the gage member against said shelf or support, and a detent for holding said sleeve in gage-binding position.

9. In a typewriting machine, the combination with a paper shelf and a cylindrical bearing or support extending therealong, of a gage member for the side edge of the paper, said gage member fitted on said support to slide therealong, a sleeve fitted rotatably upon said gage member, means to enable the sleeve to press a part of the gage member against said shelf or support, and a detent or snap-tooth to hold the sleeve from turning on the gage member.

10. In a typewriting machine, the combination with a paper shelf and a cylindrical bearing or support extending therealong, of a gage member for the side edge of the paper, said gage member fitted on said support to slide therealong and provided with a tongue, and a sleeve fitted rotatably upon said gage member and provided with a finger-hold whereby it may be rotated, and also having a springy projection to press said tongue against the shelf, said projection having a tooth or detent to engage a catch on the gage member to prevent the projection from releasing said tongue.

11. In a typewriting machine, the combination with a paper shelf having a cylindrical support, of a member having a gage for the side edge of the paper, said gage member having a tubular part fitted on said support to be adjustable therealong, a tongue

upon said gage member, a cylindrical sleeve fitted rotatably upon said gage member, said sleeve provided with a finger-hold whereby it may be turned upon said tubular part, and also having a spring finger or projection to press said tongue against said paper shelf or said roll thereon and bind the gage member to the shelf, said finger having a snap-tooth to catch over an edge on the gage member.

12. In a typewriting machine, the combination with a paper shelf having a rolled tubular rim, of a member having a gage for the side edge of the paper, said gage member comprising both a plate to lie upon the paper shelf and a tubular part fitted on said rim for adjustment therealong, a tongue being formed upon said plate, a cylindrical sleeve fitted rotatably upon said tubular part and having a finger-hold, and also having means to press said tongue against said paper shelf, and a detent for said sleeve.

13. In a typewriting machine, the combination with a paper shelf having a rolled tubular rim, of a member having a gage for the side edge of the paper, said gage member comprising both a plate to lie upon the paper shelf and a tubular part fitted on said rim for adjustment therealong, a tongue being formed upon said plate, and a cylindrical sleeve fitted rotatably upon said tubular part and having a finger-hold, and also having a spring finger to press said tongue against said paper shelf; said finger being provided with a detent or snap tooth to catch upon a part of said gage member.

14. In a typewriting machine, the combination with a paper shelf having a cylindrical support, of a member having a gage for the side edge of the paper, said gage member comprising both a plate to lie upon the paper shelf and a tubular part fitted on said support for adjustment therealong, a tongue being formed upon said plate, a cylindrical sleeve fitted rotatably upon said tubular part and having a finger-hold, headed studs upon said tubular part of the gage, engaged by slots in said sleeve, a yielding finger on the sleeve to press said tongue against the paper shelf, and a depression in said finger forming a bevel tooth or detent to catch over an edge formed upon said gage member.

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