BETTIE LOU CARY (NOW BY MARRIAGE BETTIE LOU BLOODWORTH).

TYPE WRITER.

APPLICATION FILED JAN. 2, 1909.

948,952. Patented Feb. 8, 1910.

Fig. 1.

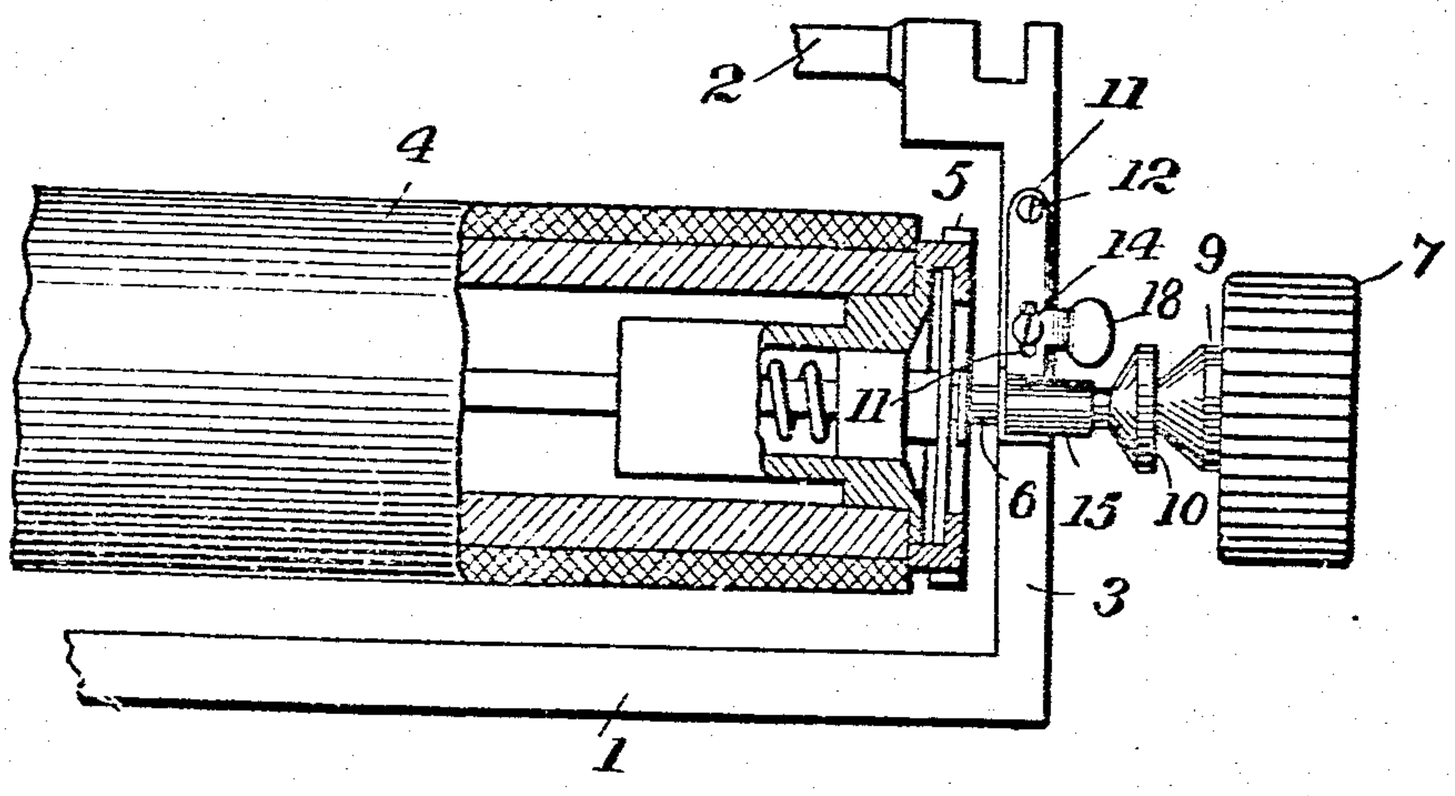


Fig. 2.

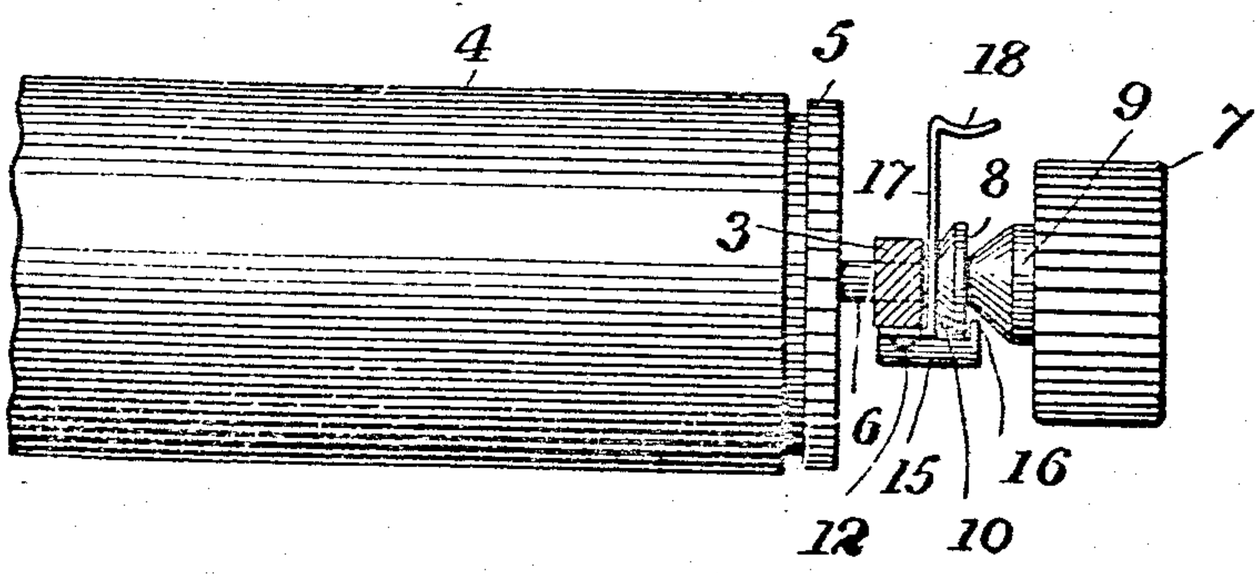
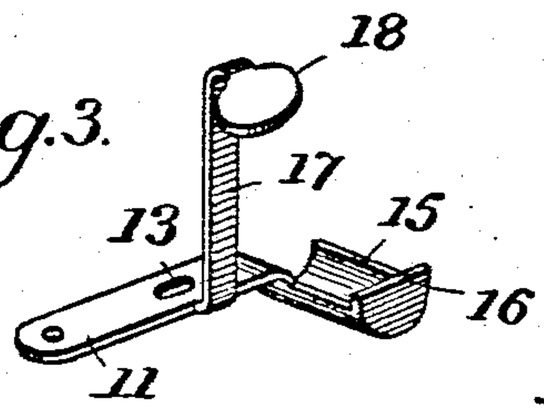


Fig. 3.



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BETTIE LOU CARY (NOW BY MARRIAGE BETTIE LOU BLOODWORTH), OF MACON, GEORGIA.

TYPE-WRITER.

948,952. Specification of Letters Patent. Patented Feb. 8, 1910.

Application filed January 2, 1909. Serial No. 470,491.

To all whom it may concern:

Be it known that I, BETTIE L. CARY, a citizen of the United States, and resident of Macon, in the county of Bibb and State of Georgia, have invented certain new and useful Improvements in Type-Writers, of which the following is a specification.

This invention relates to typewriters, and particularly to the platen release mechanism.

It consists in novel means for holding the mechanism in released position.

The rotary platen of typewriters is ordinarily provided at its end with a space wheel operated by ratchet mechanism from the space bar. There is a releasable connection between the space wheel and the platen which is sometimes operated by a longitudinally movable shaft entering the end of the wheel and the platen. This release is operated by hand and the present invention embodies simple and convenient means for retaining said mechanism in released position when it is desired to move the platen without regard to the space wheel. This free movement is often necessary in filling in blanks and during that work it is desirable that the release be made permanent.

The novel features of the invention will be apparent from the following description taken in connection with the accompanying drawing.

In the drawing:—Figure 1 is a bottom plan view of a portion of the carriage and platen of a typewriter showing my invention applied thereto; Fig. 2 is a side view of the mechanism shown in Fig. 1; and Fig. 3 is a perspective view of my spring catch which retains the mechanism in released position.

In Fig. 1 I have shown a portion of the carriage frame of a typewriter made up of the side bars 1 and 2 and the end bar 3. A rotary platen 4 of usual construction is mounted in this frame and carri[es] at [its] end the space wheel 5 having ratchet teeth on its surface adapted to be engaged by a pawl operated by the space bar, not shown. As will be understood by those skilled in the art, there is within the cylindrical platen 4 mechanism releasably connecting it with the space wheel 5, and this mechanism is operated by the longitudinally movable shaft 6 which carries on its outer end the thumb wheel 7. When the shaft 6 is in the position shown in Fig. 1 the releasable mechanism within the platen 4 secures that platen to the space wheel 5 so that the two will move together. When however the shaft 6 is moved to the position shown in Fig. 2 the connecting mechanism is placed in inoperative position so that the platen 4 may be moved without regard to the movement of the space wheel 5. The above described construction is broadly old and therefore further illustration and description of it is unnecessary. My invention consists in novel means for holding the shaft 6 in the position shown in Fig. 2, where the platen is released from the space wheel. This means embodies a catch adapted to engage a shoulder 8 upon a part 9 secured to the shaft 6, and it will be observed that there is an inclined surface 10 upon the side of this shoulder next to the carriage whereby the spring catch which I use will automatically ride up over the top of the shoulder when the shaft is moved into the position shown in Fig. 2. The shoulder 8 is circular in form extending all the way around the shaft. The catch which I use embodies a flat strip of spring metal 11 which is rigidly secured to the cross piece 3 of the frame at one end by a screw 12. Near the other end of this flat strip there is a slot 13 through which loosely passes a screw 14 which guides the catch, but does not interfere with its vertical movement. At the free end of the strip 11 there is a transverse ear 15 made semi-cylindrical in shape and carrying at its outer end a vertical flange or catch 16. Near the free end of the strip and secured to the edge thereof at right angles is an arm 17 carrying at its top a thumb piece 18.

It will be apparent from the structure above described that when the shaft 6 is moved to the left in Fig. 1 so as to release the platen, the spring catch 16 will ride up over the inclined surface 10 and will engage the lug 8, the plate 11 bending for this purpose. My catch therefore will automatically hold the mechanism in released position permitting free movement of the platen as long as desired. The parts of the mechanism may be returned to their normal position with the platen and space wheel clamped together by merely pressing down on the thumb piece 18, thus releasing the catch 16 from the lug 8. When so released the shaft 6 will move to the position shown in Fig. 1 under the influence of a spring,

not shown, on the interior of the platen. The semi-cylindrical shape of the part 15 is for the purpose of fitting over the semi-cylindrical bearing for the platen shaft as it exists in some machines.

Having thus described the invention, what is claimed is:

1. In a typewriting machine, the combination with a revoluble platen and a line space wheel therefor, of a frame upon which said platen is mounted, mechanism for releasing the platen from the space wheel including a longitudinally movable operating shaft, a ring-like stop on said shaft having its front surface inclined, and a spring catch on the frame adapted to ride over and engage said stop when the shaft is in released position.

2. In a typewriting machine, the combination with a revoluble platen and a line space wheel therefor, of a frame upon which said platen is mounted, mechanism for releasing the platen from the space wheel including a longitudinally movable operating shaft, a ring like stop on said shaft having its front surface inclined, a catch including a spring section lying against the end piece of the frame and secured thereto at one end, and a projecting edge at the other end of said section adapted to ride over and engage said stop.

3. In a typewriting machine, the combination with a revoluble platen and a line space wheel therefor, of a frame upon which said platen is mounted, mechanism for releasing the platen from the line space wheel, a spring plate extending longitudinally of the end section of the frame and rigidly secured thereto at one end, a vertical extension attached to the free end of said plate and lying adjacent the side of the end section, and a catch carried upon the end of said extension adapted to engage and retain said release mechanism.

4. In a typewriting machine, the combination with a frame, of a revoluble platen mounted in the end cross pieces thereof, a line space wheel therefor, platen release mechanism including a longitudinally movable shaft, a spring plate lying against the under surface of an end cross piece of the frame and rigidly secured thereto at one end, a catch carried by the free end of said plate for engaging and holding the shaft of the platen release and normally making such engagement, and an operating finger secured to the free end of the plate and extending to the top of the frame for releasing said catch.

5. A retaining device for platen release mechanism of typewriters embodying a flat strip of spring metal having means for securing it to the machine and provided at one end with a lateral extension, a catch on the end of said extension at right angles thereto and an arm attached at right angles to said plate at one edge adjacent said extension carrying a thumb piece on its end.

In testimony whereof I affix my signature in presence of two witnesses.

BETTIE LOU CARY.

Witnesses:
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W. R. ROGERS, Jr.