May 23, 1933. J. VERBECKY 1,910,140

TYPEWRITER ATTACHMENT

Filed Nov. 24, 1931

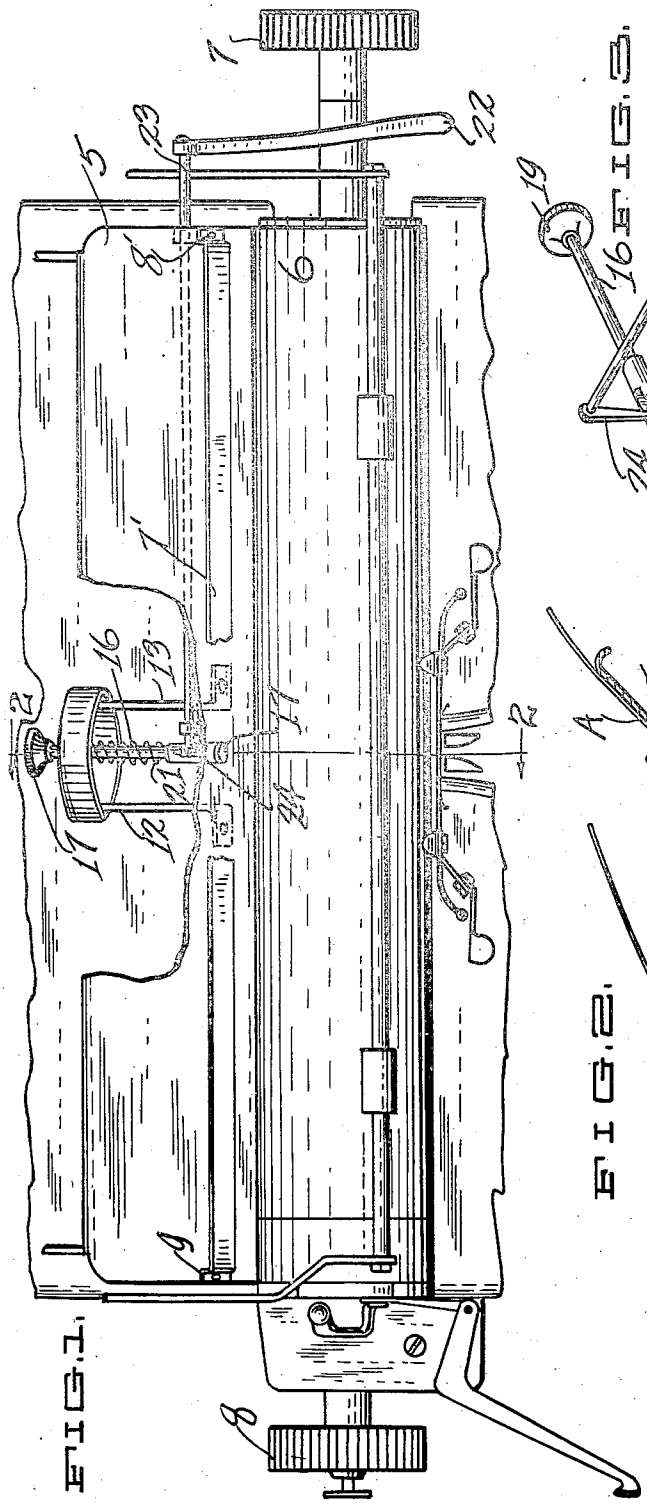


FIG. 1.

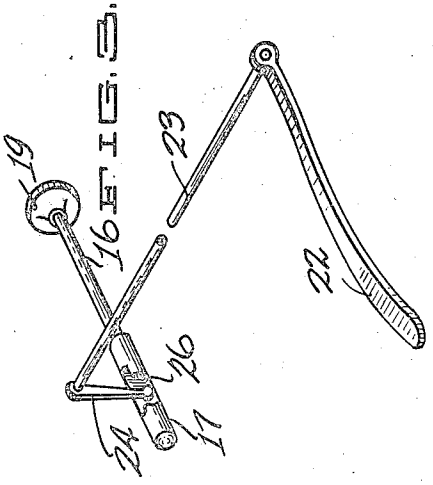


FIG. 3.

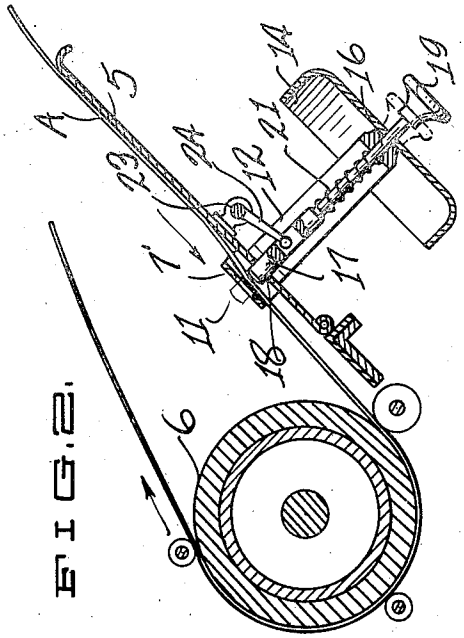


FIG. 2.

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UNITED STATES PATENT OFFICE

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TYPEWRITER ATTACHMENT

Application filed November 24, 1931. Serial No. 577,095.

This invention relates to improvements in typewriter attachments and has particular reference to a device for indicating the end of a sheet of paper.

The principal object of this invention is to produce a device wherein the operator will know when a sheet of paper has nearly completed its travel through a typewriter.

A further object is to produce a device which may be attached to any standard form of typewriter without materially altering its construction.

A further object is to produce a device which is neat in appearance and one which is economical to manufacture.

Other objects and advantages will be apparent during the course of the following description.

In the accompanying drawing forming a part of this specification and in which like numerals are employed to designate like parts throughout the same,

Fig. 1 is a fragmentary top plan view of a typewriter having my device attached thereto and partly broken away in order to show the operation,

Fig. 2 is a cross sectional view taken on the line 2—2 of Fig. 1, and

Fig. 3 is a perspective view of the releasing mechanism.

Due to the fact that as the paper moves around the platen of the typewriter, the descending lower end of the paper is hidden by the ascending top of the sheet. Consequently it is very hard to determine when the operator has reached the point adjacent the bottom of the sheet. Applicant has devised a simple mechanism wherein a bell will ring when the paper has passed a predetermined point.

In the accompanying drawing wherein for the purpose of illustration is shown a preferred embodiment of my invention, the numeral 5 designates a typewriter paper guide and the numeral 6 the platen thereof. The platen is turned by the usual hand-wheels 7 and 8. These parts form no part of my invention.

My invention consists of a paper retainer 7′ which is attached to the paper guide as at 8′ and 9. This retainer has an opening 11 therethrough, the purpose of which will be later seen. Secured to the back of the paper guide 5 is a pair of arms 12 and 13 which support a bell 14. A rod 16 extends through the bell and through the support and has a plunger 17 which passes through an opening 18 formed in the paper guide 5. A thumb piece 19 is attached to the rod 16 and a coil spring 21 extends between the rear end of the plunger 17 and the support 12. At 22, I have shown a lever connected to a rod 23 which rod carries an arm 24, which engages a slot 26 formed in the plunger 17.

The operation of my device is as follows:—

The operator depresses the lever 22 which pushes the plunger 17 away from the retainer 7′, thus permitting the sheet of paper A to be passed beneath the retainer 7 and thus fed around the platen. When the operator has reached the end of the sheet, as the end passes from between the plunger and guide, the plunger is released so that the spring 21 functions to cause the thumb piece 19 to strike upon the bell 14. The opening 11 in the retainer 7′ permits the plunger to pass therethrough and thus allows a greater movement in the striking of the bell.

It will thus be seen that my device will accomplish all the objects above set forth.

It is to be understood that the form of my invention herewith shown and described is to be taken as a preferred example of the same and that various changes relative to the material, size, shape and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claims.

Having thus described my invention, I claim:—

1. In a device of the character described, the combination with a paper guide, of a retainer secured to said paper guide, a support secured to said paper guide, a bell positioned on said support, a rod extending through said support and said bell, a finger piece secured to said rod, a plunger secured to said rod, a spring interposed between said plunger and said support, said plunger ex-

tending through said paper guide whereby paper passing between said paper guide and said retainer will be engaged by said plunger.

2. In a device of the character described, the combination with a paper guide, of a retainer secured to said paper guide, a support secured to said paper guide, a bell positioned on said support, a rod extending through said support and said bell, a finger piece secured to said rod, a plunger secured to said rod, a spring interposed between said plunger and said support, said plunger extending through said paper guide, whereby paper passing between said paper guide and said retainer will be engaged by said plunger, and means for retracting said plunger against the tension of said spring.

In testimony whereof I affix my signature.

JOSEPH VERBECKY.