Feb. 2, 1926. 1,571,786

R. A. BIRMINGHAM

ROLL HOLDING ATTACHMENT

Filed Jan. 15, 1924 2 Sheets-Sheet 1

Fig. 1.

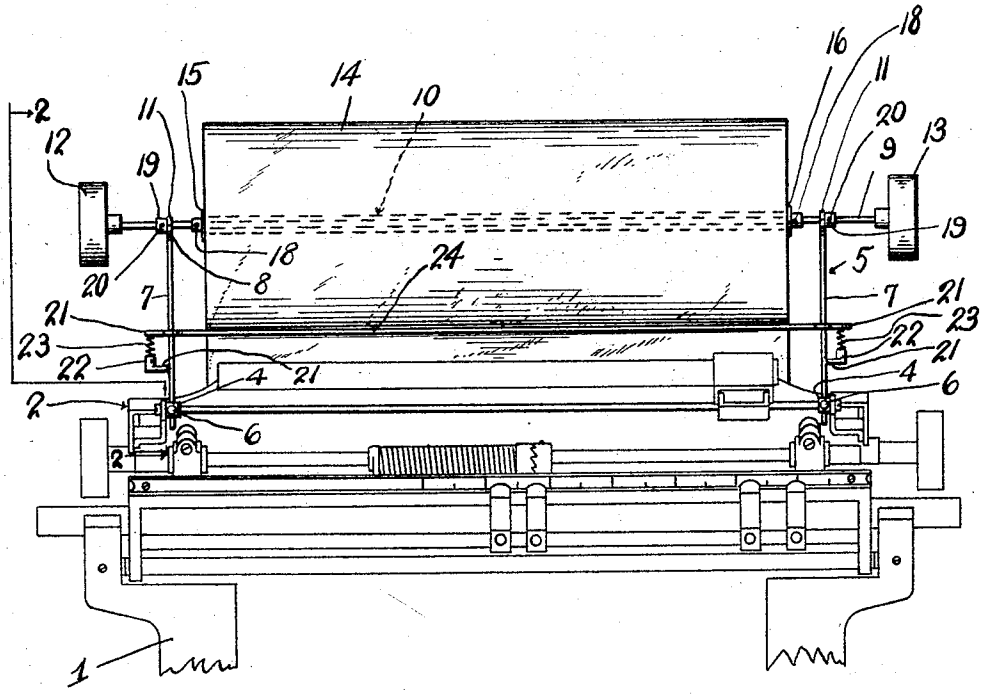
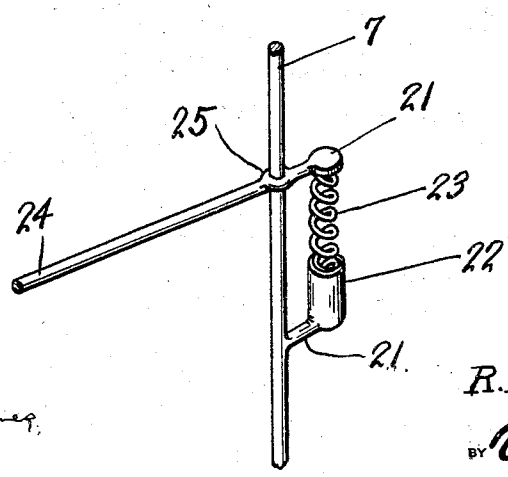


Fig. 5.



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Fig. 2.

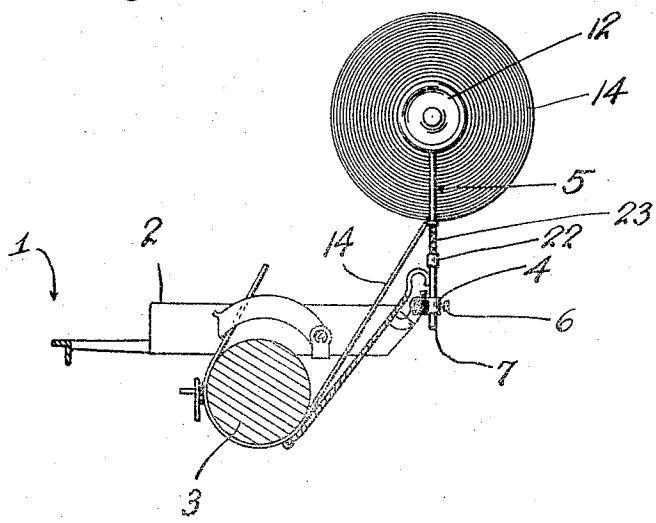


Fig. 3.

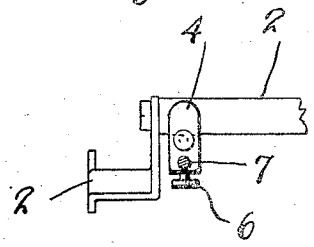


Fig. 4.

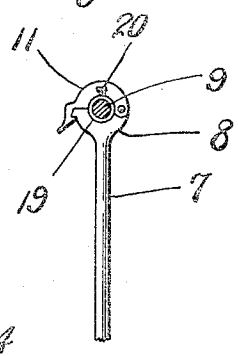
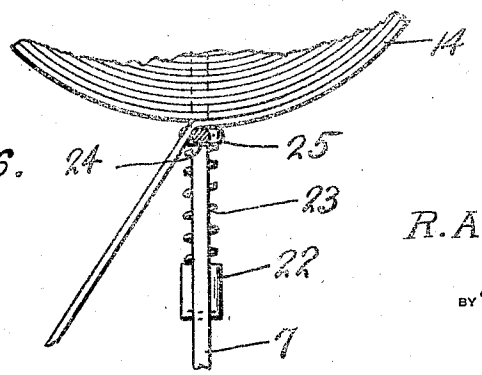


Fig. 6.



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Patented Feb. 2, 1926. 1,571,786

UNITED STATES PATENT OFFICE.

RAYMOND A. BIRMINGHAM, OF BUENA VISTA, VIRGINIA, ASSIGNOR OF ONE-HALF TO GEORGE FRED BAKER, OF LEXINGTON, VIRGINIA.

ROLL-HOLDING ATTACHMENT.

Application filed January 15, 1924. Serial No. 686,360.

To all whom it may concern:

Be it known that I, RAYMOND A. BIRMINGHAM, a citizen of the United States, residing at Buena Vista, in the county of Rockbridge and State of Virginia, have invented new and useful Improvements in Roll-Holding Attachments, of which the following is a specification.

The object of this invention is the provision of a typewriting machine or an adding machine with a holding device for a roll of paper made up of detachably connected sheets and arranged so that the same may be fed around the platen roller for typing, and thus obviate the necessity of separate sheets of papers in the use of the machine.

A further object is the production in a device for this purpose of a frame which is adjustably secured on the carriage of a typewriter or on an adding machine and which has journaled thereon a roll on which the paper to be typed is arranged and which also carries spring influenced compensating means for engaging the roll of paper for sustaining the same properly upon the paper carrying roll, and in which means is also provided for holding the paper roll from side movement on the receiving roll therefor, as well as means for turning the said paper receiving roll when the paper is to be fed therefrom.

To the attainment of the foregoing and other objects which will present themselves as the nature of the invention is better understood, reference is to be had to the drawings which accompany and which form part of this application.

In the drawings:—

Figure 1 is a rear elevation of a typewriting machine illustrating the application of the improvement thereon.

Figure 2 is a sectional view approximately on the line 2—2 of Figure 1, showing the manner in which the paper is fed around the platen roll of the machine.

Figure 3 is a sectional view on the line 3—3 of Figure 2.

The remaining Figures 4, 5 and 6 illustrate details.

In the drawings, I have illustrated my improvement in connection with an ordinary typewriting machine, but it is to be understood that the same is applicable to adding machines or to any other class of machines or devices on which paper to be typed is fed.

Referring now to the drawings in detail, the numeral 1 designates an ordinary typewriting machine, 2 the movable carriage thereof, and 3 the platen roll. Secured on the rear of the carriage by clamping means 4, is the frame 5 of the improvement. The clamping elements 4 are adjustably secured by means 6 to the uprights 7 of the frame. The body of the frame, preferably comprises only the uprights 7, but if desired, suitable and preferably adjustable means may connect the said uprights. The uprights 7, at their upper ends are provided with bearings 8 for the shaft 9 of a paper carrying roll 10. A roll of paper may be directly wound around the shaft, if desired. The bearings 8 preferably have their upper faces open, but the said upper faces are closed by clamps 11 for effectively sustaining the shaft 9 therein. The shaft 9 has on both of its ends knurled disks 12 and 13 respectively, whereby the said shaft and its roll may be turned by hand. The paper which is wound around the central portion of the shaft or the roll 10 thereon, is indicated by the numeral 14, and this roll of paper is preferably of sheets of equal lengths, divided from each other by perforated or other weakened lines. On the central part of the shaft or on the roll 10 there are disks 15 and 16 respectively. These disks carry outwardly directed hubs and through these hubs there are passed binding elements 18. The disks 15 and 16 contact the ends of the roll of paper and hold the same from longitudinal movement on the shaft 9 or on the roll 10, when the latter is employed. Suitable means, such as sleeves 19, are arranged upon the shaft and contact with the bearings 8, binding elements 20, passing through the said sleeves.

Each of the standards 7, at a suitable distance above its lower end, has an outwardly directed flange or angle portion 21, and the said angle portions are preferably provided with upwardly directed tubular sockets 22. In each of these sockets there is received a coiled pressure spring 23 that is secured to and exerts a pressure against the ends of what I will term a compensating rod or bar 24. The rod 24 is provided with eyes 25 through which the standards 7 are passed, and the rod contacts with the roll of paper 14 to prevent the sagging thereof

when the same decreases in diameter, as the outer portion thereof is fed around the platen roller 3 of the machine 1.

My improvement is of an adjustable nature, so that various widths of paper rolls may be arranged thereon. The rolls may constitute a great number of sheets of ordinary typewriting paper, so that a large volume of work may be typed thereon without necessitating the feeding of separate sheets to the platen roll of the machine, it being merely necessary to detach each sheet after the same has been typed upon.

Having described the invention, I claim:—

The combination with a typewriter or similar machine, of spaced uprights adjustably secured to the rear of the carriage thereof, a shaft journaled in bearings at the upper ends of the uprights, means securing the shaft in the bearings, means on the shaft preventing the longitudinal movement thereof through the bearings, knurled operating disks on the ends of the shaft, said shaft designed to have wound therearound a roll of paper which is to be fed to the platen roll of the machine and to be typed upon, adjustable means on the shaft for engaging the ends of the paper roll, a bar slidable on the uprights, a socket on each upright, a coiled spring in each socket contacting the ends of the bar for forcing the same against the paper roll, for the purpose set forth.

In testimony whereof I affix my signature.

RAYMOND A. BIRMINGHAM.