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B. D. WOOD & R. M. McCABE.

PAPER HOLDER FOR TYPE WRITERS.

APPLICATION FILED JAN. 16, 1905.

Fig. 1.

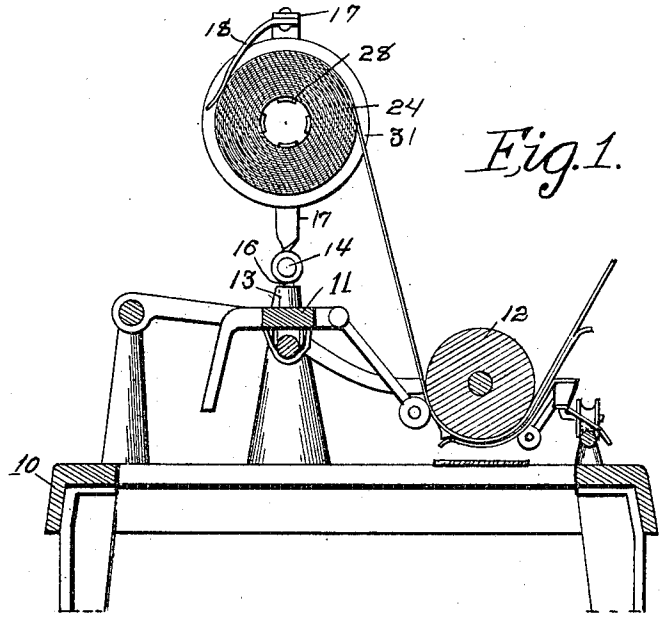


Fig. 5.

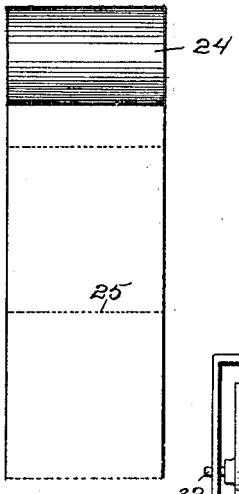


Fig. 4.

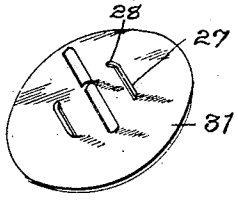


Fig. 3.

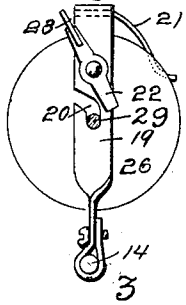
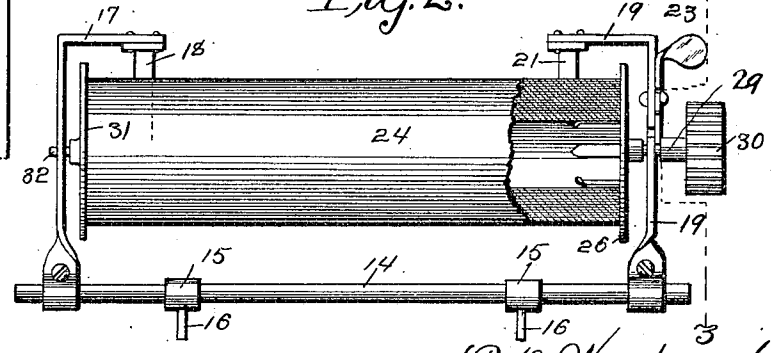


Fig. 2.



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UNITED STATES PATENT OFFICE.

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PAPER-HOLDER FOR TYPE-WRITERS.

No. 807,894. Specification of Letters Patent. Patented Dec. 19, 1905.

Application filed January 16, 1905. Serial No 241,230.

To all whom it may concern:

Be it known that we, BENJAMIN D. WOOD and ROBERT M. McCABE, citizens of the United States, residing at Fort Dodge, in the county of Webster and State of Iowa, have invented a certain new and useful Paper-Holder for Type-Writers, of which the following is a specification.

Our object is to provide a device of simple, durable, and inexpensive construction in the nature of an attachment to be applied to type-writing machines in lieu of the ordinary paper-guide apron, said attachment designed to support a roll of paper in position to feed the paper to the platen of the type-writer in a continuous strip, which may be torn off in sheets after being printed upon.

Our invention consists in the construction of the paper-holding device and its combination with a type-writer, as hereinafter more fully set forth, pointed out in our claims, and illustrated in the accompanying drawings, in which—

Figure 1 shows a vertical central sectional view of a part of the type-writer with our attachment applied thereto as in use. Fig. 2 shows a front view of the paper-holding attachment supporting a roll of paper, part of which is broken away to show certain details of construction. Fig. 3 shows a sectional view on the line 3 3 of Fig. 2. Fig. 4 shows a perspective view of one of the end plates of the paper-roll holder, and Fig. 5 shows a plan view of a roll of paper with the sheets thereof separated by rows of perforations.

Referring to the accompanying drawings, we have used the reference-numeral 10 to indicate the part of the type-writer frame shown.

The numeral 11 indicates a part of the type-writer carriage having the platen 12 mounted thereon. Formed on the top of a part of the carriage is a socket 13, designed to receive a projection on a paper-guide apron, which, however, is not shown in the accompanying drawings. Such sockets are usually found on ordinary type-writers for the purpose above mentioned.

Our attachment comprises a rod 14, having fixed thereto two collars 15, each provided with a projection 16 of a size and shape to enter the socket 13. Fixed to one end of the rod 14 is an upright 17, provided with an extension at its top, to which a flat spring 18 is fixed. The numeral 19 indicates a mating upright fixed to the other end of the rod 14 and formed with a notch 20 and also with a lateral extension at its top to receive and support the spring 21. Mounted upon the upright 19 is a pivoted keeper 22, having a handle 23 and designed to be moved to position over the notch 20, for purposes hereinafter made clear.

The reference-numeral 24 indicates a roll of paper, the sheets of which are separated by rows of perforations 25, as shown in Fig. 5.

We support the roll of paper as follows: The numeral 26 indicates a disk having on one face a series of spring-arms 27, projected at right angles to the face of the disk 26 and arranged in a circle with their inner ends inclined toward each other at 28. These spring-arms are designed to enter the opening at the center of the roll of paper, and the resiliency of the springs is designed to hold the paper securely to the disk. On the outer face of the disk is the shaft 29, designed to enter the notch 20 and be rotatably supported therein, and on the end of this shaft 29 is a hand-wheel 30. The numeral 31 indicates a disk for the other end of the roll of paper, provided with a shaft 32 to enter an opening provided for it in the upright 17.

In practical use the device is assembled by first placing the disks 31 and 26 in engagement with a roll of paper, the spring-arms on the disks holding them securely to the roll of paper. Then the operator places the shaft 32 in the opening provided for it in the upright 17 and then places the shaft 29 in the notch 20 of the upright 19. The operator then moves the keeper 22 to position with its lower end overlapping the notch 20 to thereby retain the shaft 29 firmly in position. The springs 18 and 21 are arranged to apply a yielding pressure to the surface of the paper-roll, and thus prevent it from unrolling too rapidly. Then the projections 16 are placed in the sockets 13 at the top of the type-writer carriage in lieu of the ordinary paper-guide apron, and the paper from the roll is passed under the platen 12 and the type-writer is then ready for use. Obviously as the platen is rotated the web of paper will be unrolled and fed to the platen, and after a sheet of paper has been printed upon it may be torn off at the row of perforations 25, and the operator is saved the time and annoyance of feeding each sheet separately to the platen.

Having thus described our invention, what we claim, and desire to secure by Letters Patent of the United States therefor, is—

1. A paper-roll holder for type-writers,

comprising a frame designed for detachable connection with a type-writer carriage, a disk formed with a shaft on one side and with a series of spring-arms on its other side, a second disk formed with a shaft on one side, a hand-wheel on the shaft, and a series of spring-arms on the other side, said shafts detachably and rotatably connected with said frame, and spring-arms carried by the frame to engage a roll of paper supported by said disks.

2. A paper-roll holder for type-writers, comprising a frame designed for detachable connection with a type-writer carriage, a disk formed with a shaft on one side and with a series of spring-arms on its other side, a second disk formed with a shaft on one side, a hand-wheel on the shaft, and a series of spring-arms on the other side, said shafts detachably and rotatably connected with said frame, spring-arms carried by the frame to engage a roll of paper supported by said disks, and a keeper pivoted to the frame to secure one of the shafts to the frame.

3. An improved paper-roll holder for type-writers, comprising a rod, two projections fixed to the rod, two uprights fixed to the rod, flat springs fixed to said uprights, one of said uprights formed with a slot, a keeper pivoted to the upright adjacent to the slot and two disks each formed with a number of spring-arms on one face arranged in a circle with their ends inclined toward each other, one of the disks provided with a shaft on its face opposite from the spring-arms, and the other disk formed with a shaft on its face opposite from the spring-arms, and a hand-wheel on said shaft, for the purposes stated.

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