F. F. BRADSHAW.

ROLL PAPER HOLDER AND PRINTER.

APPLICATION FILED JAN. 5, 1917.

1,276,868. Patented Aug. 27, 1918.

Fig 1

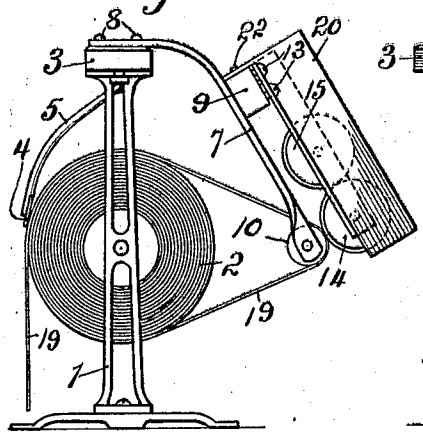


Fig 2

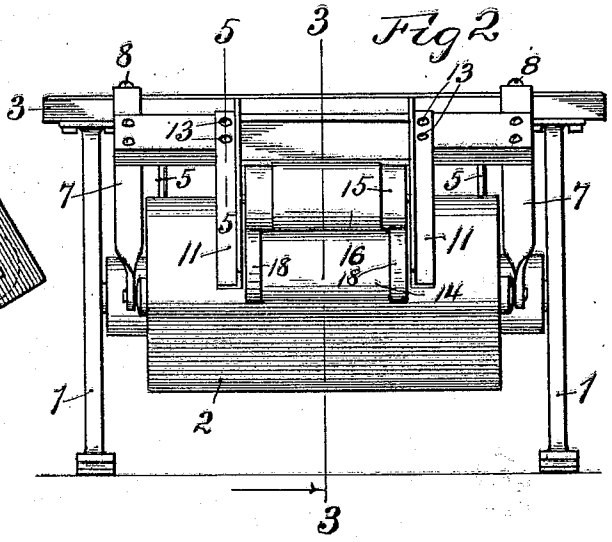


Fig 3

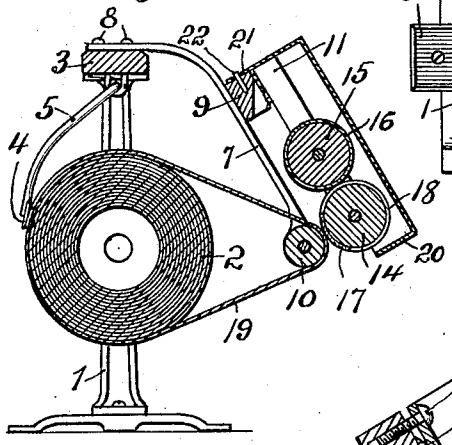


Fig 4

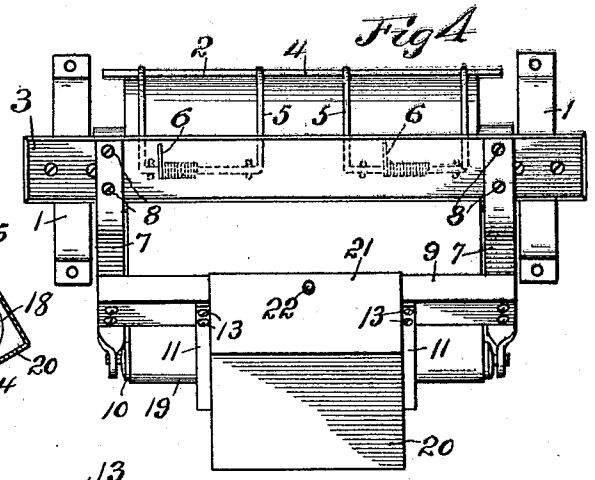
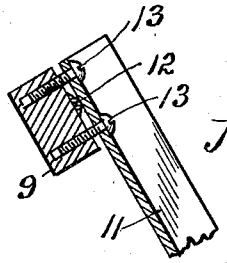


Fig 5



WITNESS:

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FRANK F. BRADSHAW, OF BOULDER, COLORADO.

ROLL-PAPER HOLDER AND PRINTER.

1,276,868. Specification of Letters Patent. Patented Aug. 27, 1918.

Application filed January 5, 1917. Serial No. 140,741.

To all whom it may concern:

Be it known that I, FRANK F. BRADSHAW, a citizen of the United States, residing at Boulder, in the county of Boulder and State of Colorado, have invented a certain new and useful Improvement in Roll-Paper Holders and Printers, of which the following is a specification.

My invention relates to improvements in roll paper holders and printers.

One of the objects of my invention is to provide a novel combined roll paper holder and printer, which is cheap to manufacture, attractive in appearance, compact and efficient in operation.

A further object of my invention is to provide a novel printing attachment which may readily be attached to roll paper holders now in use.

My invention provides further novel means by which the printing roller may be supported and adjusted relatively to the platen with which it coöperates.

The novel features of my invention are hereinafter fully described and claimed.

In the accompanying drawing which illustrates the preferred embodiment of my invention,

Figure 1 is an end elevation of my improved roll paper holder and printer.

Fig. 2 is a side elevation of the same, the cover for the inking and printing rollers being removed.

Fig. 3 is a vertical sectional view on the line 3—3 of Fig. 2, the cover being present.

Fig. 4 is a top view of what is shown in Fig. 1.

Fig. 5 is an enlarged vertical sectional view on the line 5—5 of Fig. 2.

Similar reference characters designate similar parts in the different views.

1 designates the two standards of a roll paper holder of an ordinary type provided with the usual means for supporting a paper roll 2.

3 designates a horizontal bar secured to the upper ends of the standards 1 and forming therewith the main frame of the roll paper holder.

4 designates a paper cutter comprising the usual horizontal blade which is adapted to bear against one side of the paper roll 2 and which is pivotally supported at one side of the main frame by the arms of two U-shaped members 5, the transverse portions of which are pivoted to the under side of the bar 1.

Two coil springs 6 which respectively encircle the transverse portions of the members 5 have one set of ends respectively secured to said U-shaped members, the other set of ends bearing against the bar 3. The tension of the springs 6 is such that the paper cutter 4 is normally forced with a yielding pressure against the paper roll 2.

The parts just above described comprise an ordinary roll paper holder. The attachment which I have provided and which is adapted to be secured to and supported by the roll paper holder comprises a frame consisting of two parallel bars 7, the upper ends of which are adapted to be secured by screws 8 to the upper side of the bar 3, and a transverse bar 9 secured to the outer sides of the bars 7.

The bars 7 extend downwardly from the bar 6 and have rotatably mounted between and supported by them a platen comprising preferably a platen roller 10, the ends of which are respectively rotatably mounted in the bars 7 adjacent to the lower ends thereof. The platen roller 10 and the paper cutter 4 are disposed respectively at opposite sides of the standards 1 of the main frame.

The bars 7 and 9 form a supplemental frame which are adapted to carry a support comprising preferably two inclined parallel angle bars 11, the inner sides of which, adjacent to the upper ends, of the bars 11, bear pivotally upon a fulcrum 12 secured to the outer side of and parallel with the bar 9, see Fig. 5.

Two pairs of screws 13 are respectively mounted in screw-threaded holes provided in the outer side of the bar 9. One pair of screws extends through holes provided therefor in one of the bars 11 at opposite sides respectively of the fulcrum 12. The other pair of screws 13 are located similarly with respect to the other bar 11.

A horizontal transverse printing roller 14 has its ends respectively rotatably mounted in the angle bars 11. The printing roller 14 is parallel with and adapted to coöperate with the platen roller 10.

By adjusting the screws 13, the bars 11 may be swung so as to adjust the printing roller 14 toward and from the platen roller 10.

An inking roller 15 has its ends respectively rotatably mounted in the bars 11. The inking roller 15 is provided with an inking pad 16, which encircles said roller and which is adapted to receive the ink and to transfer the same to a printing pad 17, Fig. 3, mounted upon the periphery of the printing roller 14.

The printing roller 14 is provided respectively adjacent to its opposite ends with two rubber rings 18 which are adapted to bear against the strip of paper 19, which is drawn from the paper roll 2 and passes under the platen roller 10, thence between the platen roller and the printing roller 14 and thence over the top of the paper roll 2 between said roll and the paper cutter 4, as is shown in Figs. 1 and 3.

If the strip of paper 19 is pulled from the roll 2, in the usual manner, it will rotate the printing roller 14, thereby causing the printing pad 17 to make an impression upon the strip of paper 19. The paper may be detached in the usual manner, by being drawn against the paper cutter 4. The paper cutter 4 effects a double function, that of a paper cutter, and also as a brake to hold the paper roll 2 from loosely revolving.

The inking rolled 15 is rotated by the printing roller 14, thereby presenting an inking surface each time for the printing pad 17.

By adjusting the screws 13, the printing roller 14 may be made to have the desired pressure against the strip of paper 19.

For keeping dust from the inking roller 15 and printing roller 14, I provide a rectangular cover 20, which at its upper end is provided with a lip 21 having a hole for receiving therethrough a pin 22 which is provided in the upper edge of the bar 9. The cover 20 is adapted to have its under side edges supported respectively by the angle bars 11. The cover may be readily removed by slightly moving it upwardly endwise so that it may be disengaged from the pin 22.

I do not limit my invention to the structure shown and described, as modifications, within the scope of the appended claims, may be made without departing from the spirit of my invention.

What I claim is:

1. A printing attachment for roll paper holders comprising a frame having means for attachment to a roll paper holder, a platen carried thereby, a printing roller adapted to coöperate with said platen, a support for said printing roller, a fulcrum on said frame upon which said support is adapted to swing, and two adjusting screws having screw-threaded engagement with said frame and engaging said support at opposite sides respectively of said fulcrum.

2. A printing attachment for roll paper holders comprising a frame having means for attachment to a roll paper holder, a platen roller carried thereby, a printing roller adapted to coöperate with said platen roller, a support for said printing roller, a fulcrum on said frame supporting said support, and two screws having threaded engagement with said frame and engaging said support at opposite sides respectively of said fulcrum for holding the support in the position to which it may be adjusted.

3. A printing attachment for roll paper holders comprising a frame having means for attachment to a roll paper holder, a platen carried thereby, a printing roller adapted to coöperate with said platen, an inking roller adapted to coöperate with said printing roller, a support for said rollers, a fulcrum supported by said frame and supporting said support, and two adjustable clamping devices connecting the support and frame at opposite sides respectively of said fulcrum.

4. A printing attachment for roll paper holders comprising a frame having means for attachment to a roll paper holder, a platen carried thereby, a printing roller adapted to coöperate with said platen, an inking roller adapted to coöperate with said printing roller, a fulcrum on said frame supporting said support, and two screws connecting said support and said frame at opposite sides respectively of said fulcrum.

In testimony whereof I have signed my name to this specification.

FRANK F. BRADSHAW.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."