(Model.)

S. WHEELER.

ROLL PAPER HOLDER.

No. 515,849. Patented Mar. 6, 1894.

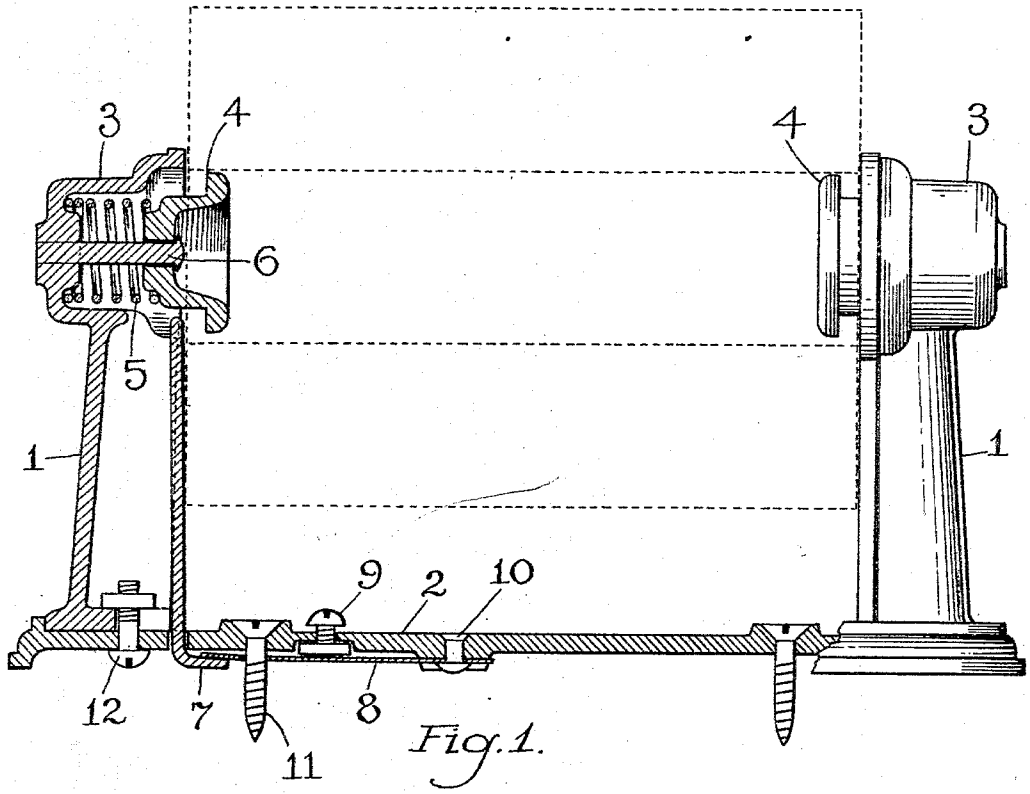

Fig. 1.

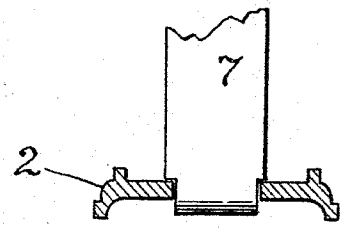

Fig. 2.

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ROLL-PAPER HOLDER.

SPECIFICATION forming part of Letters Patent No. 515,849, dated March 6, 1894.

Application filed October 7, 1893. Serial No. 487,445. (Model.)

To all whom it may concern:

Be it known that I, SETH WHEELER, a citizen of the United States of America, residing at Albany, Albany county, New York, have invented certain new and useful Improvements in Roll-Paper Holders; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

The object of my invention is to provide a new and improved roll paper holder.

In the drawings Figure 1 shows a vertical sectional view of one end and a portion of the base plate of my holder, showing a side elevation of the other end; Fig. 2 a vertical sectional view of the base plate and rear elevation of the pressure bar.

The numeral 1 indicates the arms of my device, both of which are made detachable from the base preferably, and are rigidly held to the base by the nut and bolt 12 which lies within the hollow arm 1. On the free ends of each arm is a chambered head piece 3 in which is a helical spring 5 preferably, and passing centrally through the chambered head piece 3 is a stud or rod 6, which rod is immovably fixed in the rear wall of the head piece 3, passes through the helical spring longitudinally, and through the rear wall of the chambered roll bearings 4, the opening through which the stud or rod 6 passes being of sufficient diameter to allow of the roll bearings 4 sliding longitudinally on the rod 6. In respect to the spring 5, the rod 6 and the roll bearings 4, both head pieces are equipped alike preferably. Near one of the arms 1, preferably rises a pressure bar 7. This bar 7 is diminished in width at the point where it passes through the base plate 2, as shown in Fig. 2, and rests upon and is prevented from further passing through the base plate by the shoulders formed by diminishing its width at this point. After its reduced end has passed through the base it turns at practically right angles to the main arm of the bar, receiving at its terminal its operating spring 8. Its upper or free end rises so as to rest against the end of the roll of paper and act as a brake thereon. This pressure bar 7 is spring controlled by means of the spring 8, which is permanently attached to the base 2 by the rivet 10, its free end resting upon the inner surface of the short arm of the pressure bar thus causing the upper end of the long arm thereof to constantly press against the end of the paper roll, forming a brake or frictional resistance to the revolution of the roll. Through the base plate 2 passes the screw 9, by the turning of which the tension of the spring 8 is reduced or increased at will, as will be readily seen, the turning of the screw 9 downward pressing the spring down and causing its free end to act with greater force on the short arm of the pressure bar 7, while by turning it upward, the opposite result ensues.

I fasten my holder to the wall or other desired object, preferably by screws, and in the drawings, Fig. 1, the screw 11 is seen to pass through a hole in the spring 8, said hole being of sufficient diameter to allow the spring 8 to act freely about the screw 11.

While I have shown and described the preferred mechanism by which I operate my device, I do not confine myself to the form shown, nor to the method shown of operating the roll bearings 4, 4, nor the pressure bar 7, but I prefer the method shown however. Nor do I confine myself to any precise method of obtaining pressure or frictional resistance of the pressure bar 7, as it may be accomplished by any well known means.

My device operates as follows:—When a roll of paper is to be placed in position on the holder (paper roll shown by dotted lines in Fig. 1), the roll is held in the hands longitudinally, and with one or more fingers of each hand the roll bearings 4, 4, are pressed backward and into the head pieces 3, 3, and the paper roll placed between the bearings so as to bring the central opening in the roll, or tube it is wound upon, in line with the bearings, when the springs 5 will force them into said opening. When once in position it is impossible to remove the roll from the holder and it cannot be stolen without breaking the holder or destroying the roll. To make a single delivery of the paper, *i. e.*, to cause the paper to be delivered in successive squares or strips, the screw 9 is turned down until the

pressure bar 7 is made to press against the end of the roll with sufficient force to cause the roll to turn only by the exertion of considerable force, when the successive squares or strips into which the paper is divided by cuttings or perforations in the paper, will be torn off successively, thus preventing racing of the roll and taking the paper off in long unparted sheets. When it is desired to have free delivery of the paper in long unparted sheets, the screw 9 is turned backward so it will not cause so much tension on the spring 8, when the roll will revolve easily, and the paper will be delivered in unparted sheets. Where it is not an object to control the revolution of the roll, as where the apparatus is desired for use in private houses, the pressure bar may be entirely omitted if desired. It will be noticed that the bolt and nut 12 lie within the hollow arm 1 and the pressure bar 7 lies in front of it and that it cannot be reached so as to loosen it and remove the arm and thus take the roll of paper from the holder, and this would be and is the result of simply putting bolt and nut 12 in the hollow arm, even though no pressure bar stands in front of it, for when the roll of paper is in position neither of the bolts or nuts holding either arm 1, 1, can be reached and removed.

Having described my invention, what I claim is—

1. A tension device for paper holders consisting of an arm arranged to bear against the paper roll, said arm passing through the base of the holder and bent at right angles under said base and a spring pressure against the bent over end thereof, said arm being movable in the opening through which it passes in said base and having a shoulder on said arm resting against said base, and having a tension regulating device in connection therewith, substantially as and for the purposes described.

2. A roll paper holder having fixed arms, said arms being chambered and carrying movable roll bearings in said chambers, said roll bearings being automatically adjustable to a roll of paper and arranged to hold it in position on said holder, said roll of paper being revoluble when in position on said holder, as and for the purposes described.

3. A roll paper holder having fixed arms, one at least of which is removable, said arms being chambered, and carrying roll bearings in said chambers, said roll bearings projecting from said chambers partly across the holder and being automatically adjustable to a roll of paper when in position on said bracket, said roll of paper being revoluble when in position thereon, as and for the purposes described.

4. A roll paper holder having fixed arms, said arms being chambered and carrying in said chambers roll bearings automatically adjustable to a roll of paper when in position on said holder, and arranged so that the chambers and the paper roll when in position will prevent the roll being disengaged from the holder, as and for the purposes described.

5. A roll paper holder having fixed arms, one at least of which is removable and one at least of which is chambered and having a spring controlled roll bearing in said chamber arranged to move in and out of said chamber when a roll of paper is not in position thereon and automatically adjustable to a roll of paper when in position on said holder, said paper roll being revoluble, as and for the purposes described.

6. A roll paper holder having chambered arms and carrying spring actuated roll bearings in said chambers, said roll bearings being held in said chambers by a stud passing through the roll bearings and on which the bearings are arranged to move longitudinally when a paper roll is not in engagement with the holder, said bearings being automatically adjustable to a roll of paper when in position on the holder, as and for the purposes described.

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

SETH WHEELER.

Witnesses:
W. M. BROWN,
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