(No Model.)

H. T. WILSON.

PAPER REEL.

No. 402,050. Patented Apr. 23, 1889.

Fig. 1.

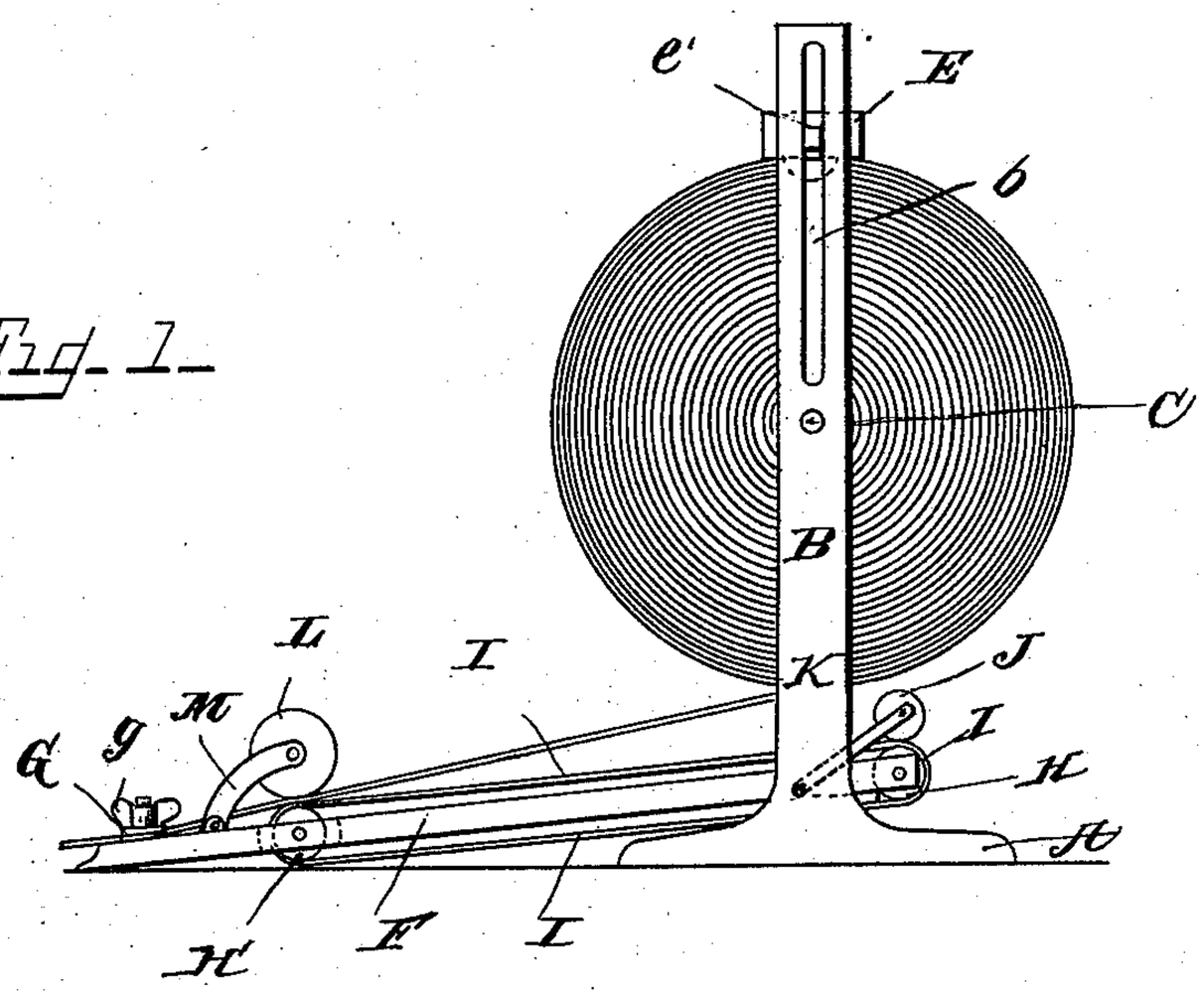
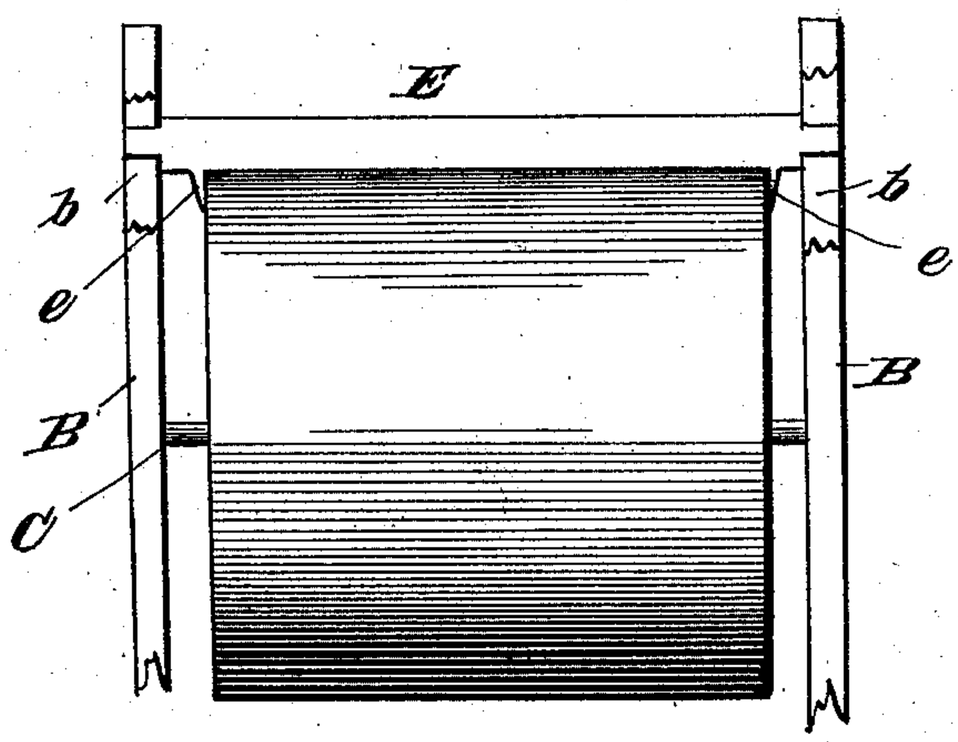


Fig. 2.



Witnesses,

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UNITED STATES PATENT OFFICE.

HOMER T. WILSON, OF HARRODSBURG, KENTUCKY.

PAPER-REEL.

SPECIFICATION forming part of Letters Patent No. 402,050, dated April 23, 1889.

Application filed March 21, 1889. Serial No. 304,163. (No model.)

To all whom it may concern:

Be it known that I, HOMER T. WILSON, a citizen of the United States, residing at Harrodsburg, in the county of Mercer and State of Kentucky, have invented certain new and useful Improvements in Paper-Reels; and I do 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 letters and figures of reference marked thereon, which form a part of this specification.

My invention has relation to paper-reels for wrapping-paper; and the object of the invention is to provide a reel for wrapping-paper for store use, whereby the paper may be rapidly delivered for use, and printed as it is delivered, and readily detached in suitable size, as required; and to these ends the novelty consists in providing a paper-reel having a printing device with a weighted or gravity pressure-bar resting upon the roll of paper, said bar having ear-guides, which prevent a side or end motion of the roll, thus insuring the even and central delivery of the web of paper to the printing mechanism, as will be hereinafter more fully described, and particularly pointed out in the claims.

In the accompanying drawings the same letters of reference indicate the same parts of the invention, in which Figure 1 is a side elevation of my improved paper-reel, and Fig. 2 is a front elevation of the roll and gravity guide-weight.

A is the base, and B B are the standards.

C is a removable shaft upon which the roll of paper D is mounted.

The standards B B are each provided with a slot, *b*, in which works a weight-bar, E, which rests upon the top of the paper and gravitates downward as the roll decreases in size. This bar E is provided with two ears or guides, *e e*, which engage each end of the roll, and thereby center the roll and prevent it from moving endwise. The journals *e'* of the bar E are square, which prevents the bar from turning as the roll is rotated. A shelf, F, is secured between the standards, and to the front end of said shelf is secured a knife, G, by suitable set-screws, *g*.

To the rear end of this shelf is journaled a roller, H, and a similar roller, H', is journaled in a slot in said shelf, near its forward end. Over these two rollers pass an endless flexible band, I, the exterior surface of which is provided with suitable advertising types or cuts, and said surface is inked by an ink-roller, J, automatically adjustable with reference to said printing-surface by the arms K, secured to the shelf F.

L is a gravity pressure-roller mounted upon hinged arms M, secured to the shelf F, so that the paper passing from the roll will be fed under said pressure-roller over the type-printing surface of the band I, thereby pressing the paper against the inked surface of the band, and by the frictional contact therewith rotating said band and printing the paper as it is drawn outward. The paper passing out under the knife G, being already printed, may be torn or cut off at any suitable length by an upward pulling motion.

It will thus be seen that the weighted pressure-bar E acts as a frictional brake, which automatically adjusts itself to the gradually-diminishing size of the roll and prevents the roll from overrunning or unwinding too rapidly, and at the same time the ear-guides *e e* always keep the roll centered longitudinally in the reel and insure the web being presented evenly and centrally to the printing mechanism, so that the printing will always be in the center of the web of paper, and thus present a neat and attractive appearance.

Having thus fully described my invention, what I claim is—

1. The combination, with a paper-reel, of a gravity pressure-bar resting upon the roll of paper and provided with ear-guides, whereby the roll will be prevented from moving endwise, as set forth.

2. The combination, with a paper-reel, of means, substantially as shown and described, whereby the paper will be printed as it is unwound from the roll, and a pressure-bar resting upon said roll and provided with ear-guides which prevent a side or end motion of the roll, and thereby insuring the true and uniform delivery of the web of paper to the printing mechanism, as set forth.

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

HOMER T. WILSON.

Witnesses:

H. J. ENNIS,

J. MCNAMEE.