(No Model.)

H. T. WILSON.

PAPER REEL.

No. 388,236. Patented Aug. 21, 1888.

Fig. 1.

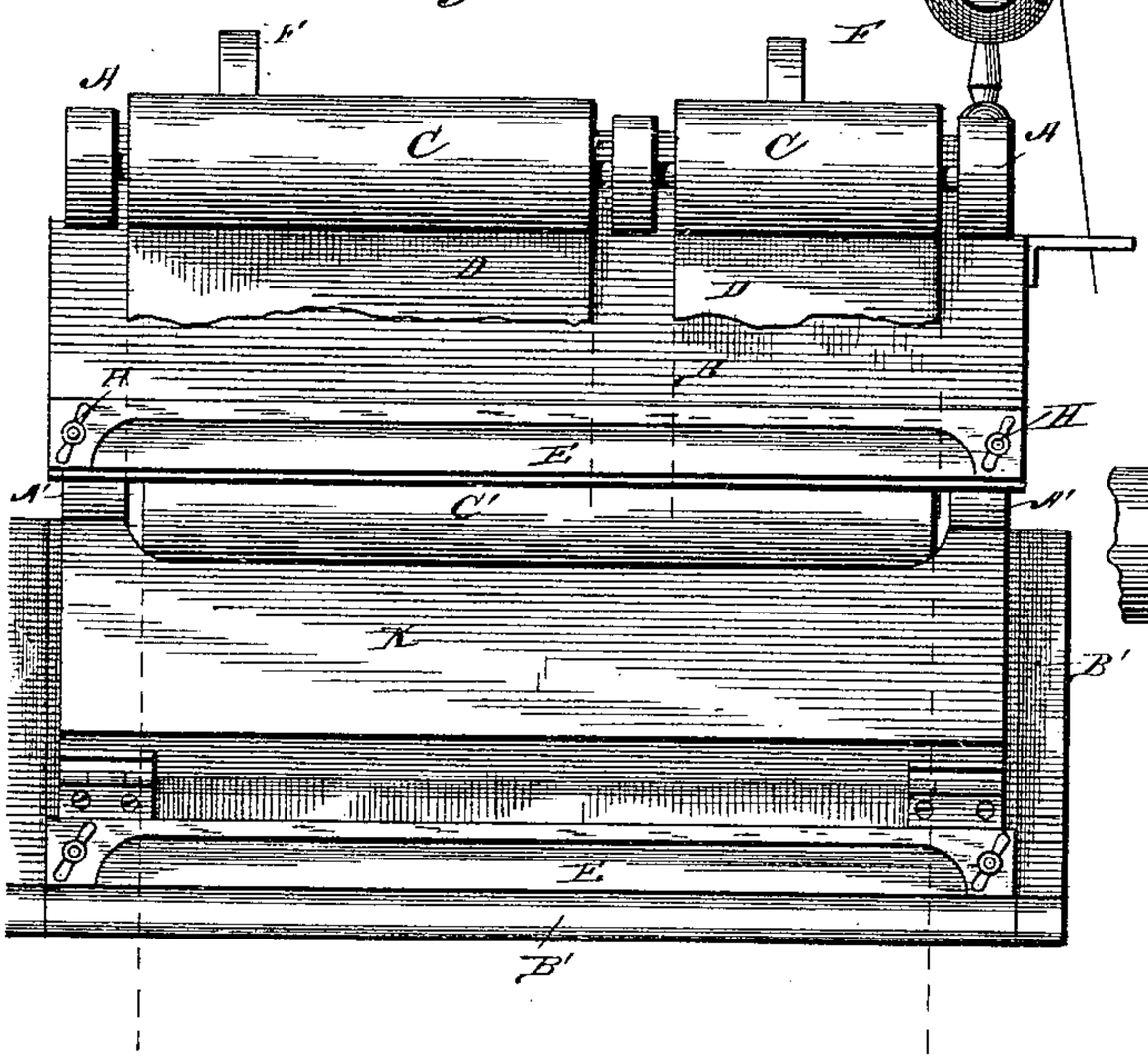

Fig. 4.

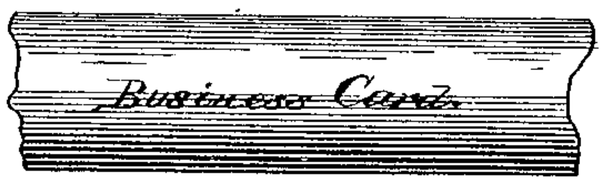

Fig 3.

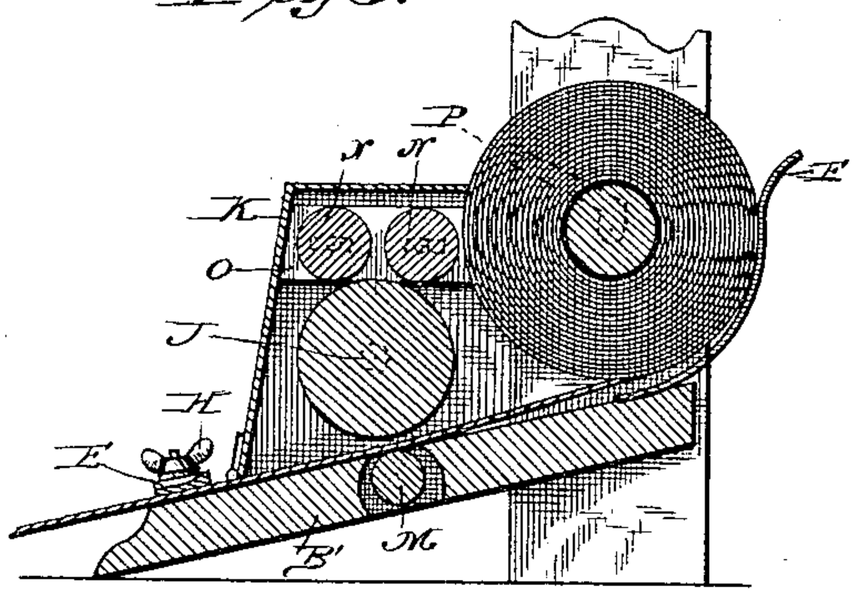

Fig. 2

Witnesses.
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UNITED STATES PATENT OFFICE.

HOMER T. WILSON, OF HARRODSBURG, ASSIGNOR TO THE MERCHANTS ROLL PAPER PRINTER AND CUTTER COMPANY, OF LEXINGTON, KENTUCKY.

PAPER-REEL.

SPECIFICATION forming part of Letters Patent No. 388,236, dated August 21, 1888.

Application filed March 12, 1888. Serial No. 267,071. (No model.)

To all whom it may concern:

Be it known that I, HOMER T. WILSON, a resident of Harrodsburg, in the county of Mercer and State of Kentucky, have invented certain new and useful Improvements in Paper-Reels; 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 pertains to make and use the same.

My invention relates to improvements in holders or reels for wrapping and other paper, and involves reels for various widths of paper, devices whereby any desired length of paper may be readily and neatly torn off, a twine-holder and twine-cutter, and devices for printing a business-card or the like upon each portion of paper removed from one of the rolls.

It is fully illustrated in the accompanying drawings, wherein—

Figure 1 is a plan of the entire apparatus; Fig. 2, a side elevation of the same; Fig. 3, a section on the line *x y*, Fig. 1; Fig. 4, a plan of a portion of the printing-roller.

In the figures, A A′ are vertical standards, and B is an inclined shelf secured to each, and thus connecting all rigidly.

B′ is a second shelf parallel to the first, secured to the standards A′, and having its lower or front edge in the plane of the lower ends of all the standards, so that with them it forms a broad base, upon which the working parts, to be described, are supported. Rolls, C C C′, of paper are revolubly supported between the standards A A and A′ A′ and at a short distance above the shelves B B′, respectively. When ready for use, the free end of the paper, D, from each roll passes beneath vertically-adjustable bars E E, and the revolution of the roll by inertia is prevented by light springs F, which, whether the roll be large or small, press gently upon its surface. The bars E may have their front edges toothed or straight; but the straight form only has been shown. The bars are held in place by bolts (fixed in the shelves B B′ and passing through the ends of the bars) and wing-nuts H. Beneath the bars, near the bolts, are springs G, of suitable form, for pressing the bars upward against the wing-nuts. By this arrangement the space beneath the bar may be varied at will. In operation the end of the paper having the desired width is seized and drawn forward until that part projecting beyond the corresponding bar, E, is of the length desired, when by a sudden upward movement it is torn off along the front edge of the bar. The paper is again caused to project either by a slight rotation of the rollers upon the upper portion of the machine by direct application of the hand, by pressing down and drawing forward that portion of the paper lying upon the shelf B just back of the bar E, or, in the case of the lower roller, by rotating the milled head I, fixed upon the end of the roller-shaft J, to be described.

A box, K, open upon its lower and rear sides, is hinged at its front edge to the shelf B′. In this box is revolubly mounted a printing-roller, L, tangent to the paper passing from the lower roll. Beneath the paper, at the line of tangency, is an auxiliary plain roller, M, rotated like the printing-roll, only by the friction of the paper. Upon the roll L is placed a business-card or such other matter as it may be deemed advisable to print upon the paper, and above this roll, and in contact therewith, are two ink-pad rolls, N N, mounted in removable blocks O, secured in the ends of the box K by any suitable means. When the lower roll of paper, C, is to be removed or replaced, the box K, with the rollers therein, is swung back, as indicated in dotted lines in Fig. 2, when the roll may be readily removed, its end gudgeons passing along suitable slots, P, Fig. 3, in the inner faces of the standards A′. When thus thrown back, the ink-rollers N N may also be readily withdrawn with the blocks O from the box. The upper paper-rolls are removed from the standards A in the same manner as the lower roll.

To render the machine complete for use upon the counter or elsewhere, a support, Q, for a ball of twine, R, is secured upon one of the standards A. A guide, S, keeps the loose end of the twine in convenient position, and a cutting-blade, T, forms an acute angle with the edge of the standard A′ and serves to sever the twine when necessary.

Having now fully shown and described my invention and explained the operation thereof, what I claim as new, and desire to secure by Letters Patent, is—

1. In a paper-reel, the combination, with

standards A A A, adapted to receive paper rolls of different widths, of shelves B B′, uniting said standards and approximately parallel to a plane tangent to the lower side of said rolls, and vertically-adjustable tearing-bars fixed upon the upper surface of said shelves, respectively, whereby paper from said rolls passing along said shelves beneath said bar may be drawn out to any desired extent and then torn off along the edge of the bar.

2. In a paper-reel, the combination, with a paper roll revolubly and removably mounted in suitable supports, of a support for the paper when unrolled, a printing-roller suitably mounted and approximately tangent to the last-named support, said roller being adapted to be revolved by the passage of the paper between its surface and the surface of said tangent support and to imprint designs upon said paper, and ink-pad rollers revolubly mounted in contact with the surface of said printing-roller.

3. The combination, with a paper roll, C′, revolubly mounted in supports provided with grooves P, of the plane shelf B′, for supporting the unrolled paper, the open box K, hinged to said shelf and containing the revolubly-mounted printing-roller L and inking-rollers N, the auxiliary roller M, and the tearing-bar E, mounted upon said shelf between springs G and wing-nuts H, substantially as set forth.

4. In a paper-reel, the combination, with a paper roll mounted upon a rotary axis and a support for the paper coming from said roll, of a swinging printing-roller to rest upon the paper while passing over said support, to be rotated by the movement of the paper, and to be swung out of contact with the paper when desired.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

HOMER T. WILSON.

Witnesses:

BYRON L. ALLIN,

BUSH W. ALLIN, Jr.