

UNITED STATES PATENT OFFICE.

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PAPER-REEL.

SPECIFICATION forming part of Letters Patent No. 673,003, dated April 30, 1901.

Application filed October 24, 1899. Serial No. 734,613. (No model.)

To all whom it may concern:

Be it known that I, JOHN HEALD, a citizen of the United States, residing at Jamestown, in the county of Chautauqua, State of New York, 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 appertains to make and use the same.

The object of my invention is to provide a reel for wrapping-paper which shall be so constructed as to stamp an advertisement or other wording upon the paper as it is removed therefrom and which shall be so constructed as to cause the inking means to lie normally out of engagement with the printing means. With this object in view a device of this nature is constructed such as is described in the specification and shown in the accompanying drawings, in which like letters of reference indicate similar parts in both views, and in which—

Figure 1 is a perspective view of my invention while in operation, and Fig. 2 is a section on line *xx* of Fig. 1.

In the manufacture of a device in accordance with this invention a base-piece *a* is provided, upon which are mounted supports *b* and *c*, each of which has an upwardly-extending arm *d*, to which is journaled a reel *e* for holding paper, having axles *e'*. To the rear of the supports *a* and *b* is journaled a guide-roller *f*, having axles *f'*, and at the base of the arms *d* are rollers *g* and *h*, having axles *g'* and *h'*, the latter roller being arranged directly below the former, the axles of both resting in slots extending into the frame, thus allowing a removal of the rollers when desired. The roller *g* is what may be called an "impression-roller" and is covered with cloth or other suitable material to form a backing to receive pressure from a suitable stamp which is mounted on the roller *h*. Journaled to the forward part of the supports is a roller *i* on a line with the roller *f*.

A supplemental frame *k* is pivoted to the forward part of supports *a* and *b*, which said frame comprises side pieces *l* and *m*, connecting-bars *n* and *o*, and a shaft *p*, the ends of which pass through and extend beyond the

side pieces *m* and *n* and into standards on the supports *b* and *c* to form a pivot. The side pieces *l* and *m* of the frame *k* are right-angular in shape and are so mounted as to cause one side of the angle to be in a somewhat vertical position and the other side to pass horizontally toward the rear of and between the supports *b* and *c*.

At the upper part of the vertical side are rollers *r* and *s*, arranged one above the other and journaled on axles *r'* and *s'*, resting in slots in the side pieces. The roller *r* is covered with cloth or other material, as is the roller *g*, and the roller *s* is covered with blotting-paper. A knife *t* is pivotally connected with the axle *r'* of the roller *r* by means of arms *u* of spring or other material, said knife *t* being adapted to lie in engagement with the roller *s* and longitudinally thereof.

Mounted between the horizontally-disposed members of the side pieces *l* and *m* is an inking-roller *v*, having a covering of absorbent material to receive a quantity of suitable ink to be used in connection with the stamp on the face of the roller *h*.

The course of the paper as it passes through this device is as follows: A roll of paper being placed upon the reel *e*, its free end is passed downwardly beneath the roller *f*, thence upwardly between the rollers *g* and *h*, and thence downwardly beneath the roller *i*, after which it is carried upwardly over the roller *s* and between it and the roller *r*, when it is again turned downwardly to pass between the knife *t* and the covering of the roller *s*.

The operation of this invention will now be described.

Supposing that it is desired to remove a quantity of paper from the reel, the free end of the paper is grasped and drawn downwardly from between the roller *s* and the knife *t*. This will cause the frame *k* to rock on its pivot *p*, which will bring the face of the inking-roller *v* in contact with the stamp on the face of the roller *h*. It will be seen that as the paper is drawn from the reel all of the rollers will be revolved. The inking-roller *v* will distribute its ink on the roller *h*, having the stamp, which will make an impression on the paper as it passes between this roller and the roller *g*, and the roller *i* will

receive the paper before it passes between the roller *r* and the roller *s*, on which latter roller the paper will be dried by the blotting-paper on its surface. When a suitable amount of paper has been removed, it is drawn upwardly against the edge of the knife *t*, which will cut off that portion which has been removed. When the next piece of paper is to be drawn from the reel, it is started from beneath the knife *t* by revolving the roller *s*, which may be done through the medium of a thumb-piece *w*, attached to its axle. Springs *y* and *z* may be attached to the rollers *r* and *g* and to the framework for drawing them downwardly on the paper. A suitable spring *z* may be arranged to bear upon the axle of the reel *e* as a tension therefor.

It will be readily understood that slight changes may be made in the construction of this device without materially departing from the invention.

Now, having fully described my invention, what is claimed, and desired to be secured by Letters Patent, is—

1. A device of the class described comprising a supporting-frame, a reel mounted on the supporting-frame, a guide-roller mounted at the rear of the supporting-frame, a printing-roller and an impression-roller journaled adjacent the guide-roller, a second guide-roller mounted to the forward portion of the frame a supplementary frame pivoted to the supporting-frame, said supplementary frame comprising a horizontally and a vertically

disposed member, one of said rollers carrying absorbent material and the other carrying a soft fabric, a knife mounted upon the supplementary frame adjacent the rollers and an inking-roller journaled to the horizontally-disposed members and adapted to engage the printing-roller when the supplementary frame is rocked.

2. A device of the class described comprising a supporting-frame, means upon the supporting-frame for holding a roll of paper, a printing-roller journaled upon the supporting-frame, means for guiding the paper to and from the printing-roller, means for holding the paper in contact with the printing-roller, a supplementary frame pivoted to the supporting-frame, an absorbent-covered roller journaled upon the supplementary frame, means for holding the paper in engagement with the absorbent-covered roller, a knife mounted upon the supplementary frame and adapted to engage the paper as it passes from the absorbent-covered roller, an inking-roller journaled upon the supplementary frame, and the supplementary frame being adapted to be rocked to cause the inking-roller to engage the printing-roller when the paper is drawn from engagement with the rollers on the supplementary frame.

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

JOHN HEALD.

Witnesses:

JOE JESSOP,
FRED. LEACH.