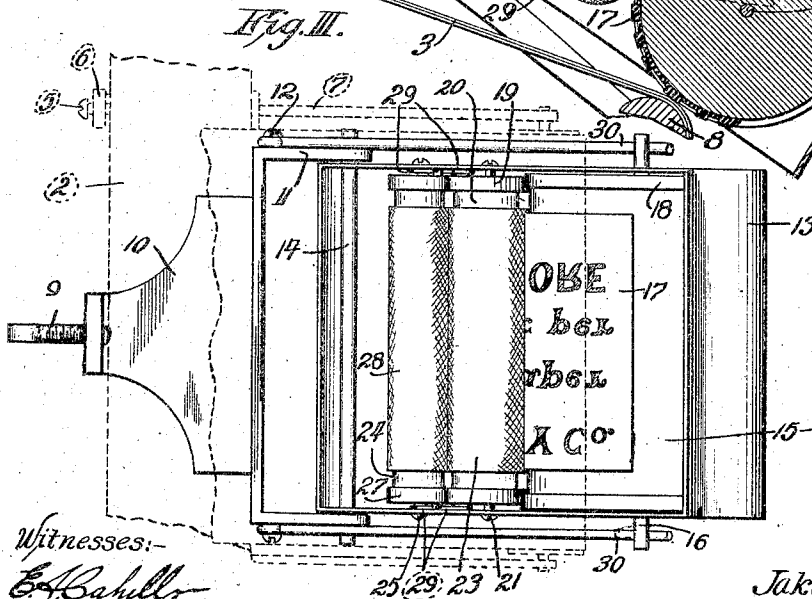
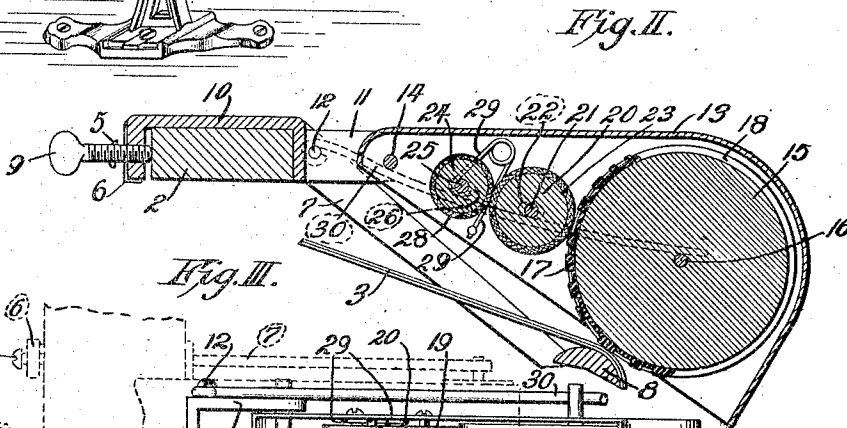
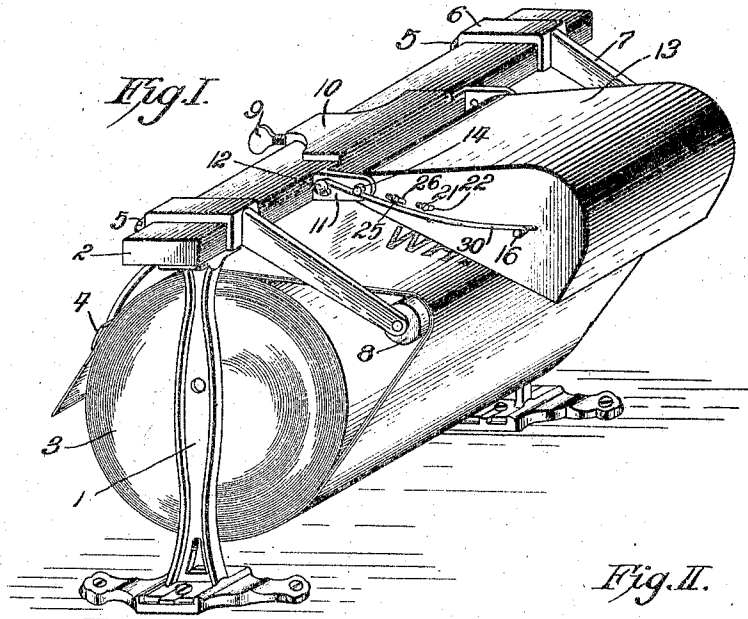


J. BARLOW.
 APPARATUS FOR PRINTING ROLL PAPER.
 APPLICATION FILED APR. 7, 1909.

994,099.

Patented May 30, 1911.



Witnesses:-

E. A. Bahillo

Myrtle M. Jackson

Inventor,
Jake Barlow

By *Arthur C. Stone*
 Attorney.

UNITED STATES PATENT OFFICE.

JAKE BARLOW, OF KANSAS CITY, MISSOURI, ASSIGNOR TO THE AUTOMATIC SPECIALTY COMPANY, OF KANSAS CITY, MISSOURI, A CORPORATION OF MISSOURI.

APPARATUS FOR PRINTING ROLL-PAPER.

994,099.

Specification of Letters Patent.

Patented May 30, 1911.

Application filed April 7, 1909. Serial No. 488,394.

To all whom it may concern:

Be it known that I, JAKE BARLOW, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Apparatus for Printing Roll-Paper; 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 relates to an apparatus for printing roll paper, and has for its object to provide an apparatus of that class which may be attached to a cutter stand and held yieldingly against a roll of wrapping paper, so that an advertising card may be printed on the paper as it is drawn off of the roll. In accomplishing these objects, I have provided the improved details of structure presently described and pointed out in the appended claim, reference being had to the accompanying drawings, in which:—

Figure I is a perspective view of an apparatus constructed according to my invention and mounted upon a roll-paper stand. Fig. II is a central vertical section of same. Fig. III is a bottom plan view of the printing apparatus and a portion of the stand.

Referring more in detail to the parts:—1 designates the supporting legs of a roll-paper stand, upon which a cross piece 2 is mounted.

3 designates a roll of wrapping paper which is carried by the legs 1 and adapted for revolution therebetween, and 4 is a cutter blade which is adapted for frictional engagement with the paper roll and is held in yielding contact therewith by its spring mounting on the cross piece 2, such parts being constructed and assembled in the ordinary manner.

Fixed to the cross piece 2, preferably by screws 5, are the brackets 6, having arms 7 which extend downwardly and rearwardly therefrom and carry a platen roller 8, the tops of the brackets being flat and lying close to the cross piece in order that a second cutter stand may, if desired, be mounted on said cross piece. Also fixed on the cross piece 2, preferably by a thumb screw 9, is a

flat top bracket 10, having rearwardly projecting ears 11, each of which is provided with an aperture near its free end and with a stud 12 at the end adjacent to the bracket body.

13 designates a casing which is preferably closed at all sides, except the bottom, and is provided at one end with an axle 14 which is adapted to project through the apertures in the ears 11 and pivot the casing thereto, the width of the casing being such that it may fit snugly between the ears, but have free rotary movement therebetween.

15 designates a type roller which is located in the outer end of the casing 13 and is revolvably mounted therein by means of the rod 16, which projects from the roller ends through apertures in the casing sides, such roller being provided with a type face 17 which is preferably permanently fixed on the roller periphery. Each end of roller 15 is provided with a friction flange 18 which is adapted for engagement with a similar flange 19 on a distributing roller 20, which latter is of less diameter than roller 15 and provided with a rod 21, the ends of which project through slots 22 in the casing sides, so that the roller may have limited longitudinal and free revolvable movement within the casing.

23 designates a pad which is carried by roller 20 and adapted for engagement with the type face 17, on the roller 15.

24 designates an inking roller, of less diameter than roller 20, having a rod 25, the ends of which project through slots 26 in the casing sides. Roller 24 is provided with the frictional flanges 27 which engage the flange 19, on roller 20, and with an inking pad 28 which engages the pad 23 on the distributing roller.

Pivoted on the studs 12 on the bracket ears 11 are rod springs 30 which extend beneath the projecting ends of the axle 14 and over the projecting ends of the rod 16 and yieldingly hold the casing, and parts carried thereby, toward the web roller 8, the parts being so arranged and combined that the web and type rollers will impinge against each other.

The pairs of rod-springs 30 are held under tension by the shaft 14 and such rod-springs may be readily disengaged from the shaft 16 by a lateral movement, to permit the casing 13 being swung to a substantially

vertical position, when it is desired to clean the type or the like. It is obvious that the pairs of rod-springs 30 may be placed in engagement with shafts 14 and 16 upon upper and lower sides thereof respectively, whereby said rod-springs will hold the casing and printing apparatus out of engagement with the paper. This is a decided advantage, as many occasions may arise when it is unnecessary to print the paper, for example, when the store keeper desires to remove quite a number of yards of the paper for placing it upon the shelves.

39 designates springs, one of which is carried by each side of the casing and connected with the rod of the inking roller 24 in such manner that said roller is yieldingly pressed against the distributing roller 23 and the latter pressed against the type roller 15.

When the apparatus is in use, the roll web is passed twice over the roller 8 and out beneath the cutter blade 4, so that when the web is unwound from the roll, the wraps on the roller 8 will serve to break the revoluble movement of the roll and prevent slack in the web between the roll and roller 8. Ink is then applied to the pad on the inking roller and the printing apparatus is lowered onto the portion of the roll web that is passed over the roller 8, and the rod springs 30 arranged above the projecting ends of rod 16, so that the printing apparatus is held yieldingly in contact with the paper web. When the web is drawn from beneath the cutter blade its frictional contact with the flanges 18, of the printing roller, moves said roller around and causes the printing face to move over the distributing roller 23, a continued withdrawal of the web bringing the type face 17 over the roller 8 and producing an impression of the type face on the paper web.

By providing a distributing roller of less diameter than the type roller, and an inking rollers of less diameter than the distribut-

ing roller, the ink may be spread to better advantage, because of the greater number of revolutions each smaller roller makes in contact with its larger cooperating member. 50

Having thus described my invention, what I claim as new therein and desire to secure by Letters Patent is:—

The combination with the cross-piece of a paper-roll stand, of a bracket detachably 55 connected therewith, a casing disposed near said bracket, a shaft pivotally connecting said casing and bracket and having its ends extending beyond said bracket, printing apparatus arranged within said casing, including a shaft disposed near the outer side of said casing and extending outwardly beyond the ends of the same, pair of rod-springs having corresponding inner ends pivotally connected with said bracket and 65 normally engaging the lower side of said first named shaft, said rod-springs having their free ends normally engaging the upper side of the second named shaft to force said casing downwardly, said pairs of rod-springs 70 being held under tension by the first named shaft and adapted to be readily disengaged from the second named shaft by a lateral movement, to permit of said casing being swung to assume a substantially vertical position, said pairs of rod-springs being adapted to be placed upon reverse sides of said shafts for forcing the casing upwardly whereby the printing apparatus is held out of engagement with the paper, a pair of 80 brackets detachably connected with said cross-piece, and a platen disposed between and pivotally connected with said pairs of brackets for holding the paper in position for engagement with the printing apparatus. 85

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

JAKE BARLOW.

Witnesses:

MYRTLE M. JACKSON,
E. A. CAHILL.