

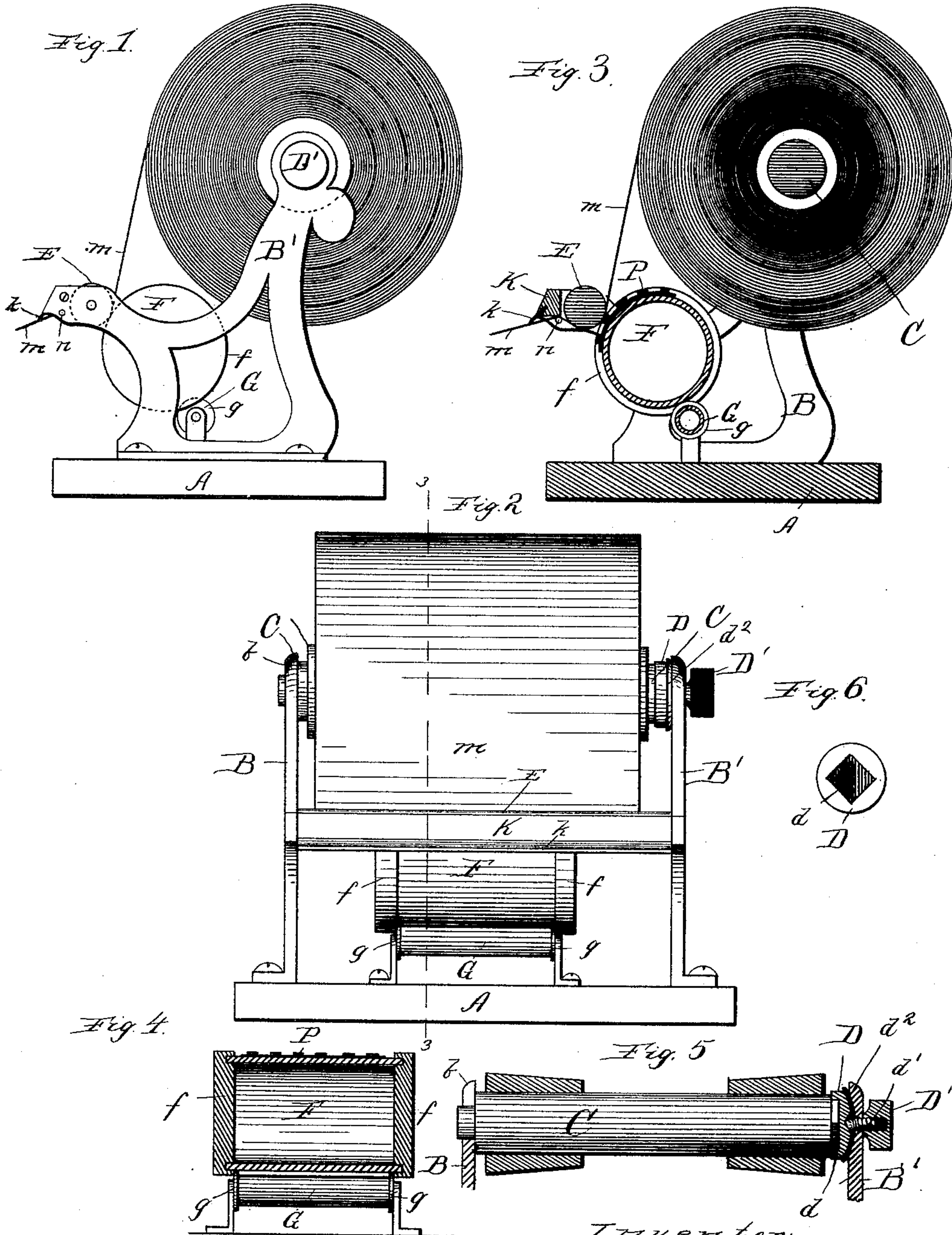
(No Model.)

G. L. KENNEDY.

ROLL WRAPPING PAPER HOLDER, PRINTER, AND CUTTER.

No. 410,594.

Patented Sept. 10, 1889.



Witnesses:
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UNITED STATES PATENT OFFICE.

GUY L. KENNEDY, OF CHICAGO, ILLINOIS, ASSIGNOR, BY MESNE ASSIGNMENTS,
TO THE MERCHANTS ROLL PAPER SUPPLY COMPANY, OF SAME PLACE.

ROLL WRAPPING-PAPER HOLDER, PRINTER, AND CUTTER.

SPECIFICATION forming part of Letters Patent No. 410,594, dated September 10, 1889.

Application filed January 25, 1889. Serial No. 297,549. (No model.)

To all whom it may concern:

Be it known that I, GUY L. KENNEDY, a citizen of the United States, residing in Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Roll Wrapping-Paper Holders, Printers, and Cutters, of which the following is a specification.

My invention relates to apparatus for holding roll wrapping-paper, cutting it in short pieces, as desired, and automatically printing the same as it is pulled from the roll.

My object is to simplify and improve the construction of such machines; and the invention consists in the novel devices and novel combinations of parts and devices herein shown and described, and more particularly pointed out in the claims.

In the accompanying drawings, which form a part of this specification, and in which similar letters of reference indicate like parts, Figure 1 is a side elevation of a device embodying my invention. Fig. 2 is a front elevation. Fig. 3 is a vertical section on the line 3 3 of Fig. 2. Fig. 4 is a detail of the type roller and inker, the former being in section. Fig. 5 is a longitudinal section of the paper-supporting cylinder, and Fig. 6 is a detail of a portion of the friction device employed with the paper-cylinder.

In said drawings, A represents a table or supporting-block, upon which my improved machine is mounted. B B' are vertical standards secured to said block and supporting the paper-roll, the impression or smoothing roller, and the knife.

C is the shaft or cylinder, which is passed through and supports the wound paper. It is inserted at one end in the open bearing *b* in one of said standards, and at the other end is squared and inserted in the socket *d* of the button D, forming part of the friction device located at the other standard, and acting to keep the roll of paper from revolving too freely. This friction device is of very simple construction, and consists of the socketed button D, having an axial screw *d'* projecting through the standard B', and a thumb-nut D' on said axial screw, adapted to be moved into

contact with the outside of said standard and to draw the spherical side of the button closely against the inside of the standard, and thereby to cause the necessary friction.

A washer *d²*, preferably of leather, may be inserted between the button and the standard.

The impression or smoothing roller (shown at E) is fixedly journaled in the standards, and is located in a plane below the axis of the paper-roll. It serves the double purpose of smoothing out the wrinkles and uneven spots in the paper as it comes from the roll and of impressing the paper upon the type-cylinder F. Said printing or type cylinder is provided with peripheral flanges *f*, between which and the roller E there is always contact, insuring rotation by the type-cylinder under the traction force exerted by the paper as it is drawn between said roller and cylinder.

The type-cylinder has no journal or shaft, but is supported between the impression-roller on one side and the stationarily-journaled inking-roller G on the other side, and retained in position by its own gravity. End play by the cylinder is prevented by the engagement of its flanges *f* with the flanges *g* of the inker. By thus supporting the cylinder the machine is simplified, the cylinder is easily removed and inserted, and its constant contact with the impression-roller rendered certain.

The knife is supported by the same arms of the standard as is the impression-roller and in close proximity to the latter, and consists of a wood strip K, extending from standard to standard, and a blade *k* of metal—such as ordinary sheet or tinned iron, for example—inserted in a longitudinal groove formed in the wood strip.

The web of paper (indicated by *m*) is drawn from the top of the roll preferably, thence between the type-cylinder and smoothing-roller, thence over the supporting-wire *n*, and thence to the knife. The wire *n* is so located relative to the printing-cylinder and the knife that it will keep the free edge of the web from hanging down in contact with the cylinder, which would cause blotting, &c., and at the same time allow such edge to hang down away from the knife, so that it may be readily

grasped by the fingers and a fresh section of paper drawn out.

It will be noticed that my machine is very compact, as well as simple, the printing devices being in a lower plane than the roll, so that they may lie partially under the latter; also, that the paper in passing through the machine is drawn downward and under the smoothing-roller with a change of direction, so that considerable pulling force must be put upon it, thereby insuring the drawing out of all wrinkles, &c. A new roll of paper is very readily inserted, and the type-roller may be readily removed and inserted. The rotation of the latter is also rendered easy and certain by the simple act of drawing off the paper.

The type-plate P, carried by the type-cylinder, is preferably of rubber, so that it may yield. It thus secures even impressions, even though the supporting-rollers be not exactly in line with each other, and renders unnecessary the providing said rollers with yielding bearings.

I claim—

1. In a roll-paper holder and printer, the combination of the type-cylinder with the impression-roller and inking-roller, the cylinder being supported by the rollers, substantially as set forth.

2. In a roll-paper holder and printer, the combination of the type-cylinder with stationarily-journale impression and inking rollers, by which the cylinder is supported, substantially as specified.

3. The combination, with the knife and the type-cylinder, of the supporting-wire *n*, substantially as set forth.

4. The roll-paper holder, printer, and cutter, consisting of a paper-cylinder, a stationarily-journale impression-roller, a stationarily-journale inking-roller, a type-cylinder supported between said impression and inking rollers, and a knife, substantially as set forth.

5. The roll-paper holder, printer, and cutter, consisting of a stationarily-journale paper-cylinder, a stationarily-journale smoothing-roller, acting also as an impression-roller, a type-cylinder and inking-roller, and a knife, the smoothing-roller being below the plane of the paper-cylinder, and the paper being passed around it with an abrupt change of direction, substantially as set forth.

6. The roll-paper holder, printer, and cutter, consisting of the paper-cylinder, a smoothing and impression roller, a printing-cylinder, an inking-roller, a paper-supporting wire *n*, and a knife, all the parts being constructed and relatively arranged as set forth, substantially as specified.

7. In a printing-paper holder, a type-cylinder supported between the impression and the inking rollers, and held against end play by flanges *f* and *g*, in combination with said rollers, substantially as set forth.

8. In a printing roll-paper holder, a type-cylinder supported by stationarily-journale rollers at either side, in combination with such rollers, substantially as set forth.

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