

(No Model.)

B. J. CHURCHILL.
PRINTING DEVICE.

No. 550,159.

Patented Nov. 19, 1895.

Fig. 1.

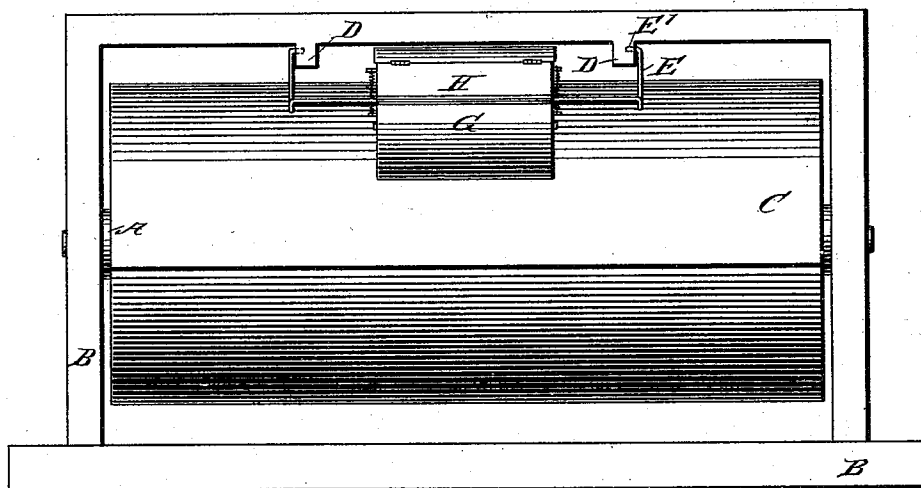


Fig. 2.

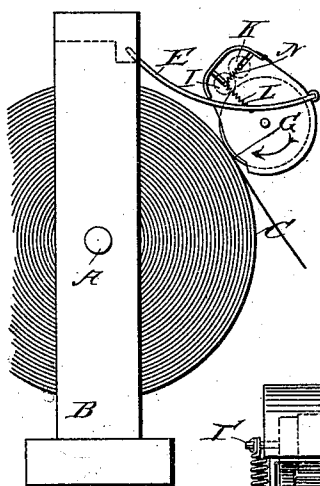


Fig. 5.

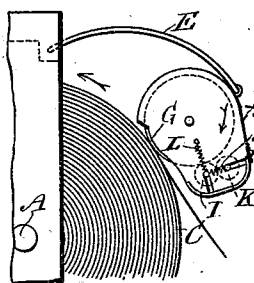


Fig. 4.

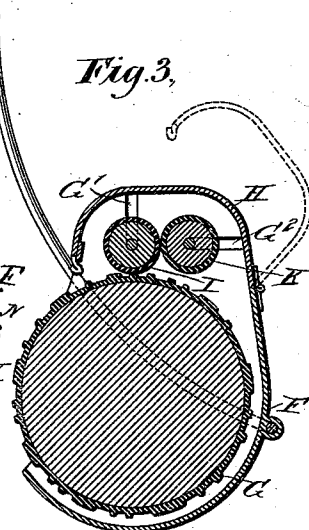
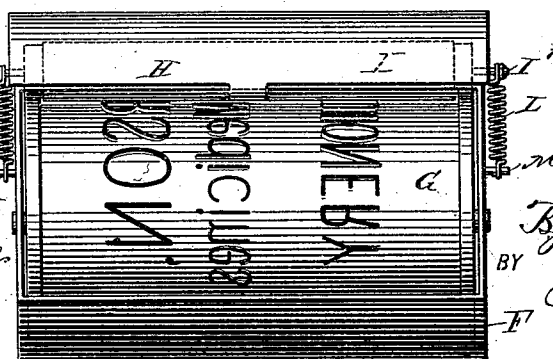


Fig. 3.



WITNESSES:

Edward Thorpe.
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INVENTOR

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UNITED STATES PATENT OFFICE.

BYRON J. CHURCHILL, OF MORRIS, NEW YORK.

PRINTING DEVICE.

SPECIFICATION forming part of Letters Patent No. 550,159, dated November 19, 1895.

Application filed February 25, 1895. Serial No. 539,631. (No model.)

To all whom it may concern:

Be it known that I, BYRON J. CHURCHILL, of Morris, in the county of Otsego and State of New York, have invented a new and Improved Printing Device, of which the following is a full, clear, and exact description.

My invention relates to a machine or device for printing rolls or spools of paper, and is particularly intended to provide means for printing advertisements on wrapping-paper each time the paper is drawn from the roll.

The invention consists of certain features of construction and combinations of parts, which will be hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a front elevation of a paper-roller provided with the improved printing device. Fig. 2 is a side elevation thereof. Fig. 3 is an enlarged transverse sectional view of the printing device. Fig. 4 is a front elevation thereof, and Fig. 5 is a broken side elevation showing a different manner of attaching the printing device to the frame of the paper-roller.

In carrying out the invention I employ a roller A, journaled in a frame B and adapted to receive a roll of paper C. The frame B is provided with depending lugs D, with which are pivotally connected the hooks E' at the ends of a yoke E, which yoke at its lower end carries a frame or casing F, containing the printing-roller G, journaled therein. The casing F is provided with a hinged lid H and with slots G' and G², of which the former extends toward the axis of the printing-roller G, while the latter is arranged approximately at right angles to the slot G'. The latter is adapted to receive the trunnions of the inking-roller I, adapted to ink the types on the printing-roller G, and in the slot G² are located the trunnions of the distributing-roller K, which is in contact with the surface of the inking-roller I.

In order to keep the inking-roller in contact with the printing-roller I provide springs L, which are secured to the trunnions I' of the

inking-roller I and to stationary stops M of the casing F. I also arrange similar coil springs N between the trunnions of the inking-roller I and distributing-roller K.

It will be observed that the printing-roller G will always remain in contact with the paper C, as the casing F is pivotally connected to the frame D by means of the yoke E, and will press against the paper by gravity. It will thus be observed that when the paper C is drawn from the roller A, causing the roller to rotate, the printing-roller G likewise will be caused to rotate by frictional contact with the paper, and the device on the said roller will produce an impression on the paper. In this manner the roll of paper will be continuously provided with advertisements or other printed matter. The lid H being hinged permits ready access to the rollers I K, and also to the lower part of the printing-roller G. The springs L and N preserve proper contact between the printing-roller G, the inking-roller I, and the distributing-roller K. As illustrated in Fig. 5, the yoke E can be reversed on the frame B and the casing F on the yoke, so as to bring the inking-roller I nearer to the point of impression.

I desire it to be understood that I do not limit myself to the exact construction of parts shown, but that various modifications may be made without departing from the nature of my invention.

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

In a paper printing apparatus, the combination with a paper supporting frame, of a substantially U-shaped yoke having its ends pivotally connected to the frame, a casing located inward of the yoke and embraced thereby, the casing being pivotally connected to the yoke, an inking roller within the casing, and a printing roller within the casing, substantially as described.

BYRON J. CHURCHILL.

Witnesses:

NATHAN BRIDGES,
FRANK RUSHMORE.