

(No Model.)

F. KIRSCH.
PRINTING MACHINE.

No. 405,099.

Patented June 11, 1889.

Fig I.

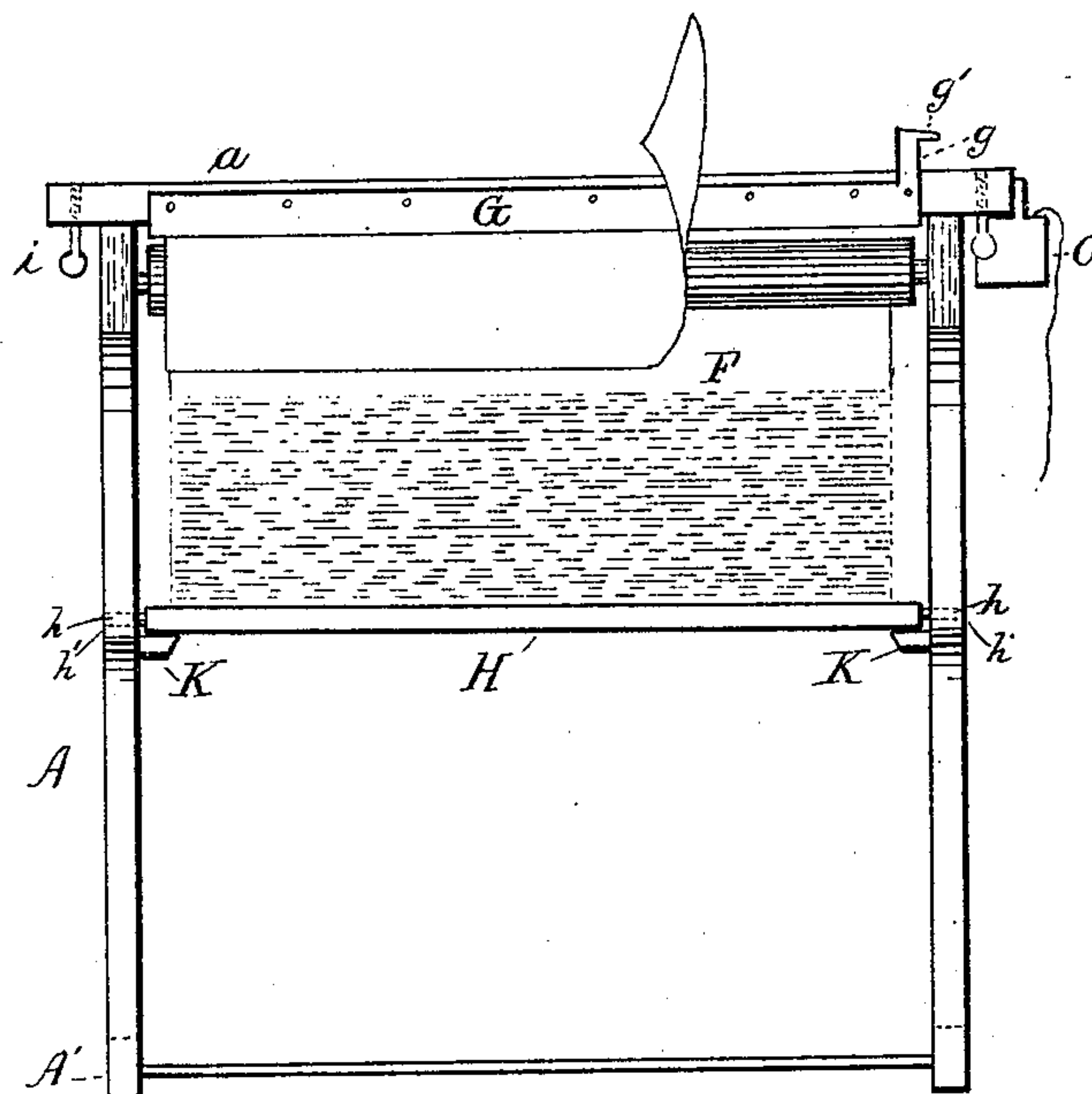


Fig II.

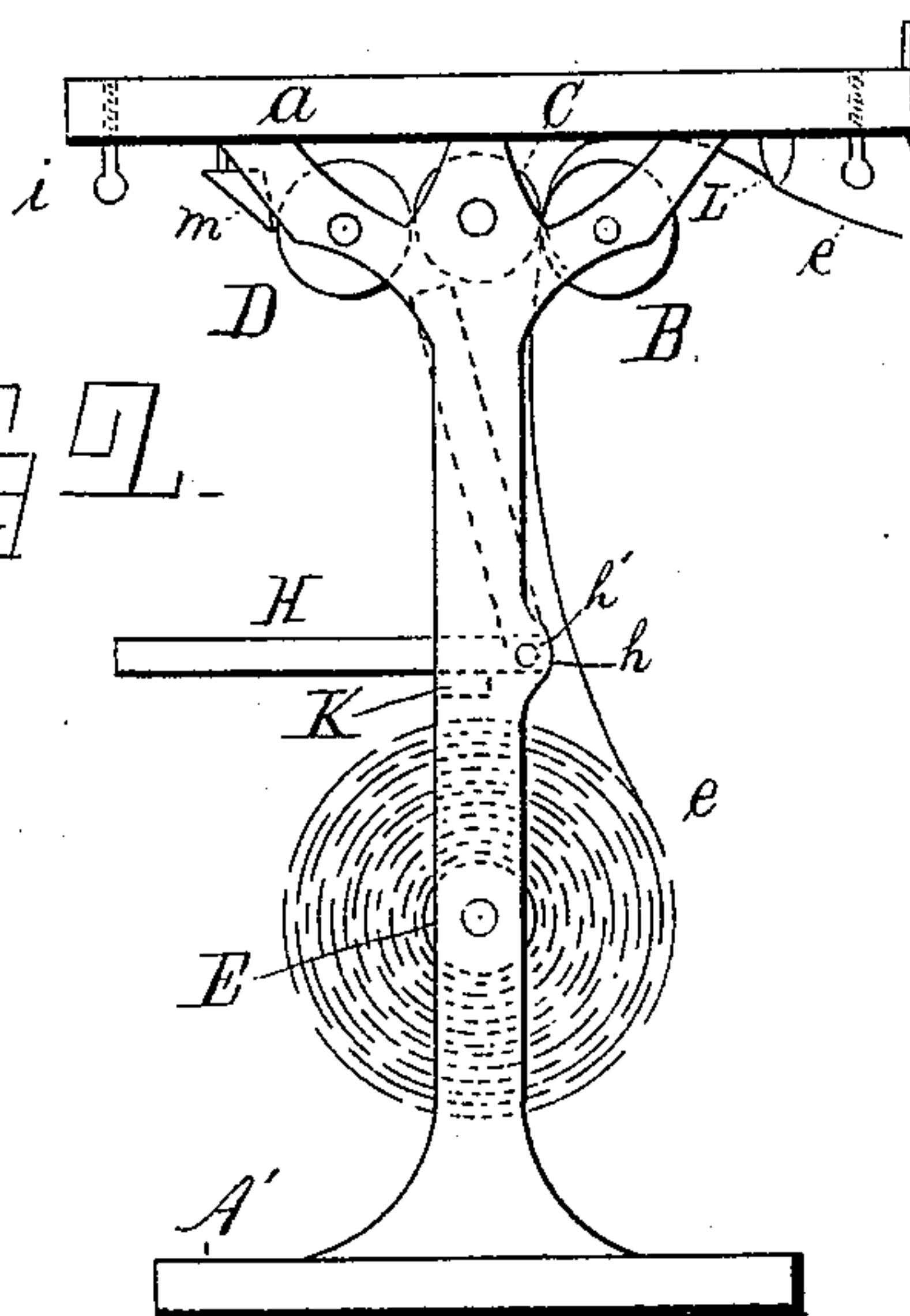
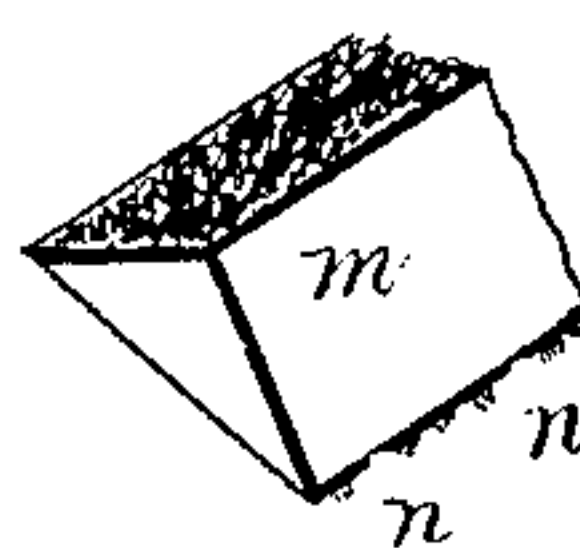


Fig III.



Witnesses
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UNITED STATES PATENT OFFICE.

FRANCIS KIRSCH, OF ST. LOUIS, MISSOURI.

PRINTING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 405,099, dated June 11, 1889.

Application filed June 13, 1888. Serial No. 276,914. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS KIRSCH, a citizen of the United States, residing at St. Louis, in the State of Missouri, have invented certain
5 new and useful Improvements in Printing-Machines; 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
10 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 is intended for the use of
15 merchants and others who use printed wrapping-paper. It is made as a complete article of store-furniture or is adapted to be hung beneath a counter or table, and will automatically print continuous paper from the roll or
20 folded package.

The accompanying drawings set forth the invention, reference being made thereto by letters, similar letters denoting corresponding parts in the different views.

25 Figure 1 is a front elevation of the invention when adjusted to use folded paper. Fig. 2 is an end elevation showing the machine adjusted to use paper from a roll. Fig. 3 is an enlarged view of part of ink-reservoir.

30 The letter A indicates the frame of the machine. If intended to stand, the base A' is provided. Secured upon the frame is the cover or top piece *a*, which is furnished at each corner with screws *ii*, adapted to pass up
35 through the said top piece and into the counter, to which it is hung.

Along the front edge of the top *a* is a knife G, having one edge projecting slightly below the top *a*, and another edge *g* formed at one
40 end of the knife on a part of the same bent upward at a right angle. The extreme point *g'* of this part is blunt, and is bent over for the protection of the blade and of the operator.

To the under side of the top *a*, just back of
45 the blade G and parallel to it, I attach the curved projection L. Back of this projection and close under the top *a* are journaled in the frame A three rollers. The first roller B is cushioned and is a "carrier-roller." The second roller C bears the form or die for printing, and the third D is the inking-roller.
50 Under the back edge of the top *a* is the

ink-reservoir M, of triangular form and filled with cotton saturated with ink. Its lower edge has the perforations *n n*, through which the
55 cotton comes into contact with the roller D.

Two shoulders K K are formed on the inside of the vertical parts of the frame A at a suitable distance below the rollers just described, and the eyes *h' h'* are provided on
60 the front edges of the same. H is a shelf, having the pins *h h*, adapted to work loosely in the eyes *h' h'*, the shelf, when in a horizontal position, being supported by the shoulders K K. On this shelf H the folded paper F is
65 placed. When not used, the shelf H may be turned up to the position indicated by the dotted line. Below this shelf the roller E, bearing the paper *e*, is journaled in the frame A. The roller E should be placed far enough
70 below the shelf H so that the latter will not be in contact with the paper *e*, and should be adjusted so that the paper will feed upward from the front side of the roller.

O is a twine-box attached to the end of the
75 top *a*, adjacent to the blade *g*, which serves as a twine-cutter.

The machine is operated by passing the paper from the package F or the roller E up between the rollers C and D and forward over
80 the carrier-roller D. The projection or guide L will give the paper a downward deflection, so that it is easily grasped by the hand. As the paper *e* is drawn through, the rollers are made to revolve. The die on the roller C, being
85 inked by the roller B, prints the desired impression on the paper. By drawing the paper upward against the knife G it is torn or cut off in desired lengths.

The paper is used for wrapping packages
90 on the top *a*. The package is tied with twine from the box O, which is cut on the knife *g*, as described above.

Having described my invention, what I claim, and desire to secure by Letters Patent
95 of the United States, is—

1. An automatic printer consisting of a frame having inwardly-projecting shoulders to support in operative position a shelf hinged to said frame, a paper-roller journaled in the
100 frame beneath the said shelf, a cushioned roller, a die-roller, and an inking-roller journaled in the frame above the shelf, a top piece having vertical corner screws, secured to the

frame above the rollers, and having on its front edge a horizontal blade, and on its under side a guide near its front edge and an ink-reservoir near its back edge, arranged substantially as herein set forth.

2. In an automatic printer having a frame and a top provided with vertical corner screws, the combination of the ink-reservoir, the rollers B, C, and D, and the guide L, with reference to the shelf H and paper-roller E, attached to said frame, substantially as herein described.

3. A combined automatic printer and table formed of a vertical frame having a supporting-base, two inwardly-projecting shoulders, a top piece covering said frame, provided with vertical corner screws, a knife along the

front edge of said top, having a lower cutting-edge and a short upright blade covered by a blunted protector, a horizontal guide beneath the top, back of and parallel to the said knife, an ink-reservoir, a cushioned roller, a die-roller, and an inking-roller journaled in the frame beneath the said top piece, a hinged shelf beneath the said rollers, and a paper-roller journaled in the frame beneath the shelf, substantially as herein described.

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

FRANCIS KIRSCH.

Witnesses:

JNO. H. DEWEY,
FRED. E. WHORF.