

(No Model.)

L. EHRLICH.
COMBINED PAPER PRINTER AND CUTTER.

No. 408,597.

Patented Aug. 6, 1889.

Fig. I.

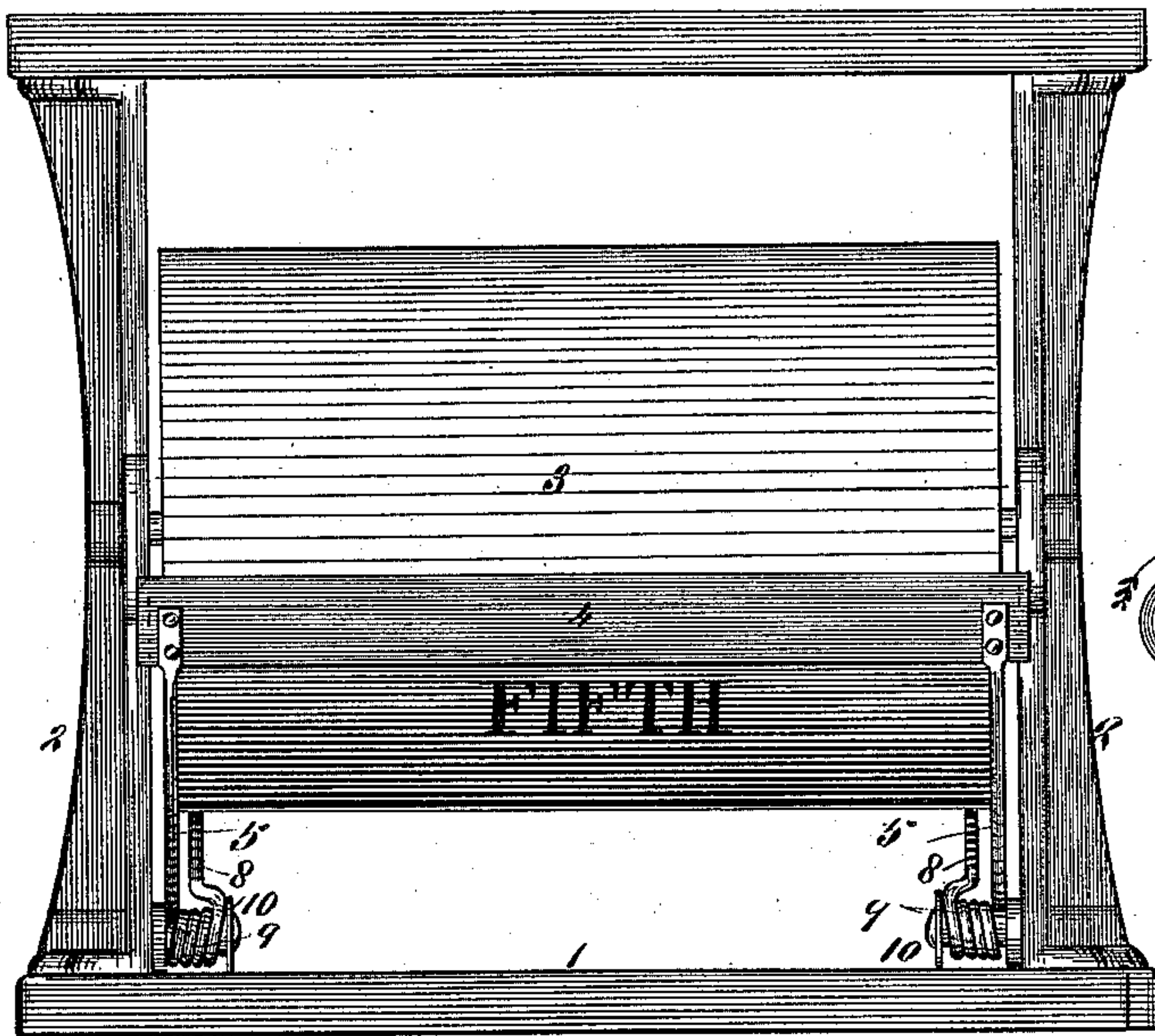


Fig. II.

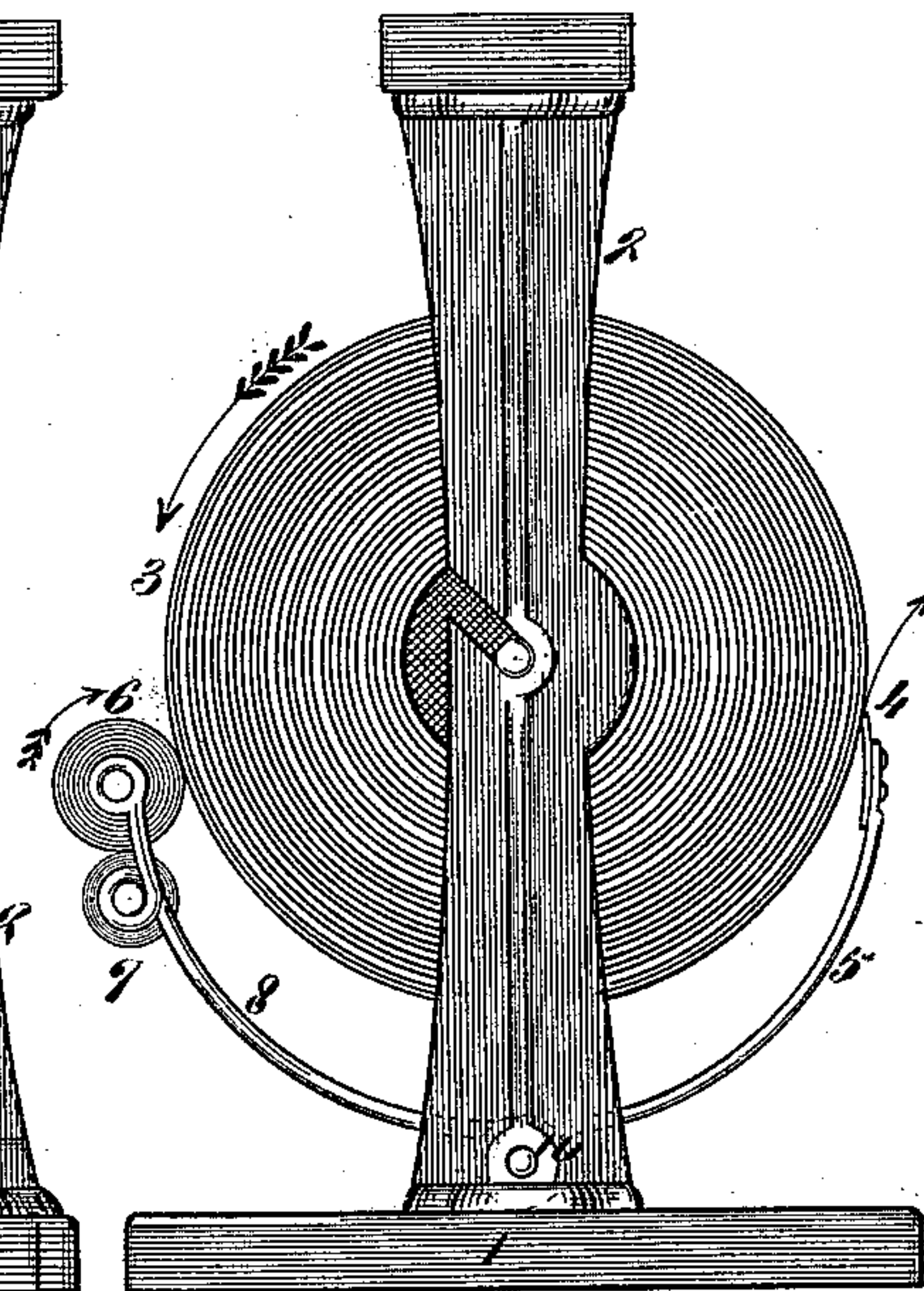
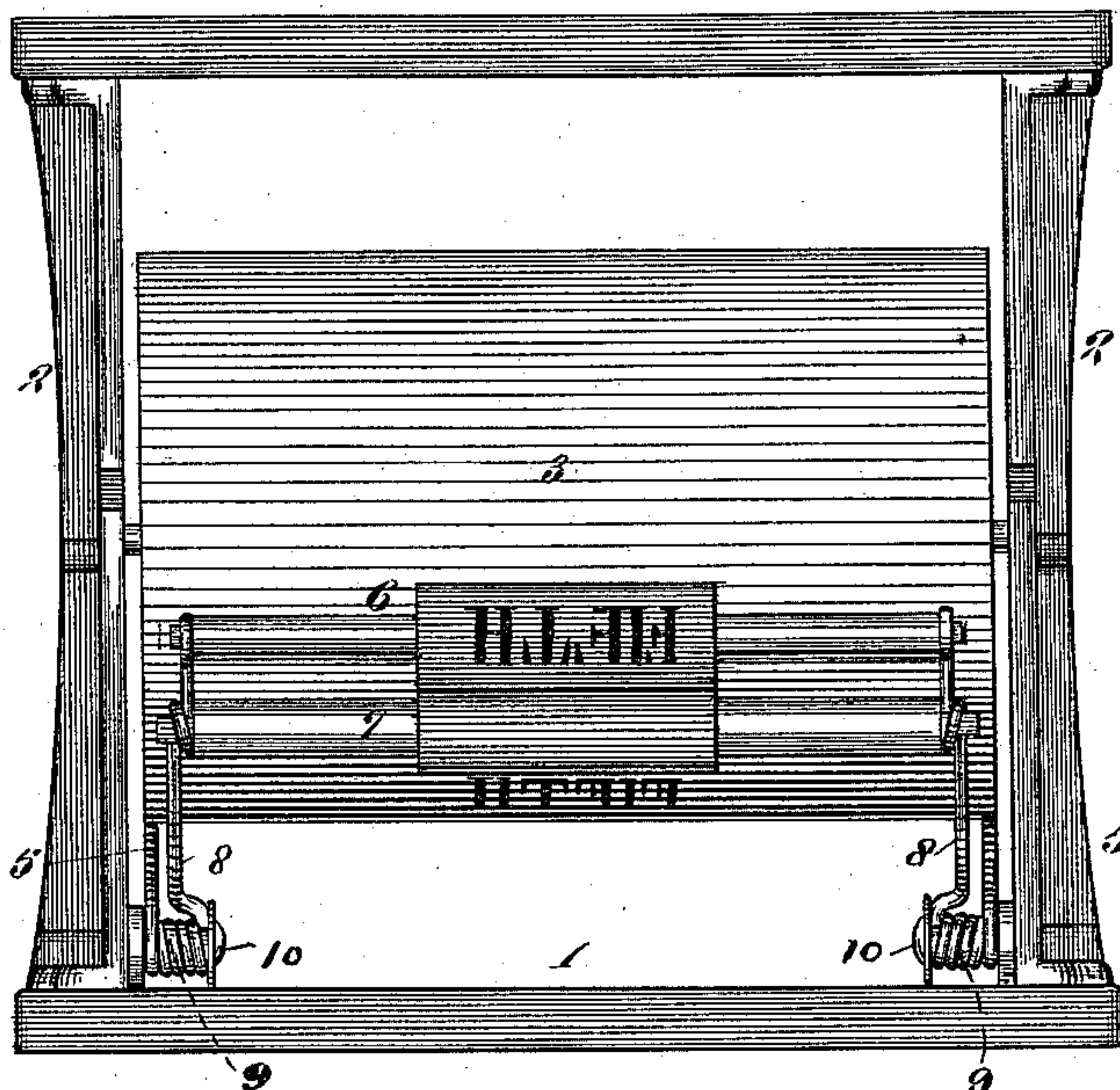


Fig. III.



Attest;

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UNITED STATES PATENT OFFICE.

LEO EHRLICH, OF ST. LOUIS, MISSOURI, ASSIGNOR TO THE AMERICAN ROLL
PAPER COMPANY, OF SAME PLACE.

COMBINED PAPER PRINTER AND CUTTER.

SPECIFICATION forming part of Letters Patent No. 408,597, dated August 6, 1889.

Application filed October 6, 1888. Serial No. 287,435. (No model.)

To all whom it may concern:

Be it known that I, LEO EHRLICH, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Combined Paper Printers and Cutters, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, and in which—

Figure I is a front elevation of my improved machine. Fig. II is a side elevation. Fig. III is a rear elevation.

My invention relates to an improved device for holding, printing, and cutting wrapping-paper; and my invention consists in features of novelty, hereinafter fully described, and pointed out in the claims.

Referring to the drawings, 1 represents the base, 2 the end pieces or standards, and 3 the paper roll mounted on the standards, as usual.

4 represents a knife secured to spring-arms 5 on a pair of spring-pieces—one at each end of the paper roll. The knife is located in front of the roll of paper, and behind the roll of paper is a printing-roller 6 and an inking-roller 7. These rollers are preferably mounted on spring-arms 8, also on the pair of spring-pieces. The arms 5 and 8, at the respective ends of the machine, are formed of one piece of wire, coiled, as shown at 9, around a pin 10 and extending upward on opposite sides of the paper roll, as shown clearly in Fig. II. The tendency of the arms 5 is to spring inward to automatically keep the knife against the roll of paper, and the tendency of the arms 8 is to automatically keep the printing-roller against the paper. It will thus be seen that when the paper roll is turned in the direction indicated by the arrow in Fig. II the paper will first be printed by the roller 6, and then may be severed against the knife 4. In this way a very cheap and effective combined paper cutter and printer is made. The printer-roller also has the function of a tension-roller.

The inking and printing rollers are preferably each formed of two separate pieces or members, one consisting of a spindle and the other a sleeve to fit over the spindle, as shown in Fig. III. The sleeves carry the printing and inking forms, and may be taken off and applied at will.

I claim as my invention—

1. The combination of the standards for supporting the paper roll, the pair of spring-pieces—one at each end of the machine—having arms 5 and 8, a knife mounted on the ends of the arms 5, and a roller mounted on the ends of the arms 8, substantially as described.

2. The combination of the standards for supporting the paper-roll, the pins—one at each end of the machine—the pair of spring-pieces coiled around the pins having arms 5 and 8, a knife mounted on the ends of the arms 5, and a roller mounted on the ends of the arms 8, substantially as described.

3. The combination of the standards for supporting the paper roll, the pair of spring-pieces—one at each end of the machine—having arms 5 and 8, a knife mounted on the ends of the arms 5, and a printing-roller and an inking-roller mounted on the ends of the arms 8, substantially as described.

4. The combination, with the base and the standards, of the pins 10, located at the lower ends of the standards, the pair of spring-pieces having coils 9 around the pins and provided with arms 5 and 8, the knife 4, secured to the ends of the arms 5, the printing-roller 6, journaled to the ends of the arms 8, and the inking-roller 7, journaled to the arms 8 beneath the printing-roller, substantially as described.

LEO EHRLICH.

In presence of—

OCTAVIUS KNIGHT,
HERVEY S. KNIGHT.