

(No Model.)

2 Sheets—Sheet 1.

L. EHRLICH.
PAPER CUTTER.

No. 405,402.

Patented June 18, 1889.

Fig. I

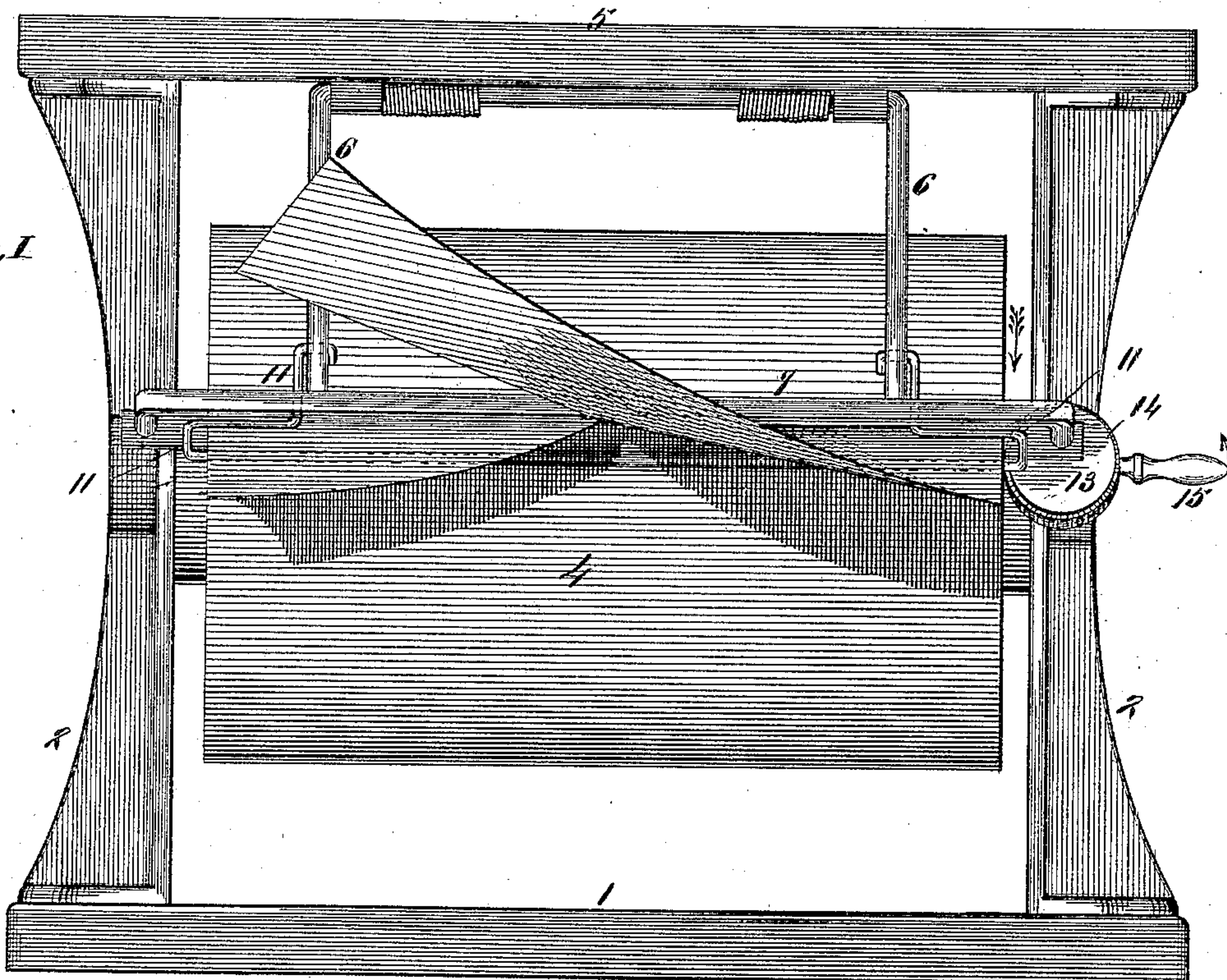


Fig. III,

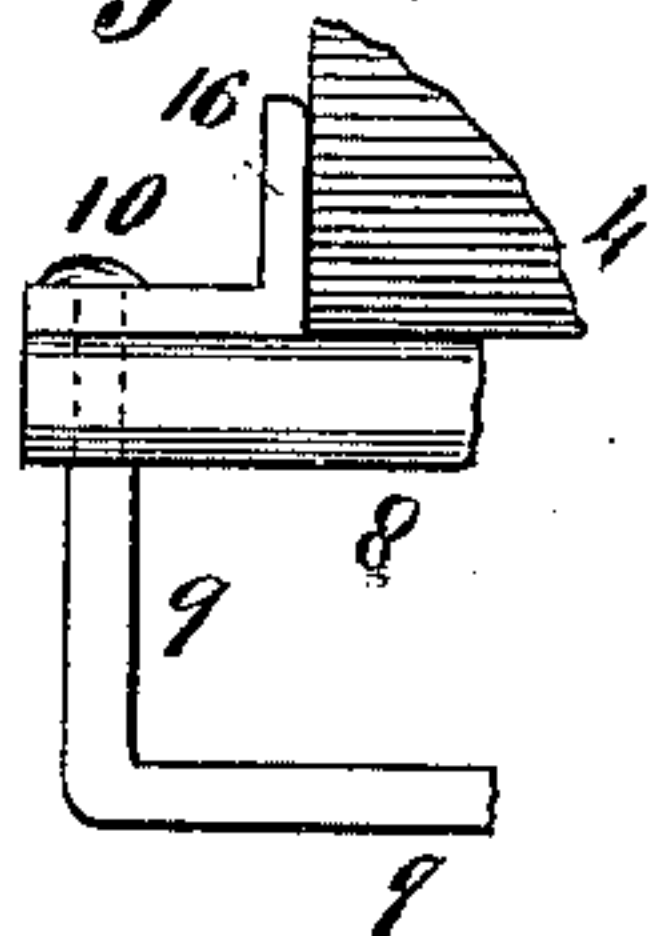
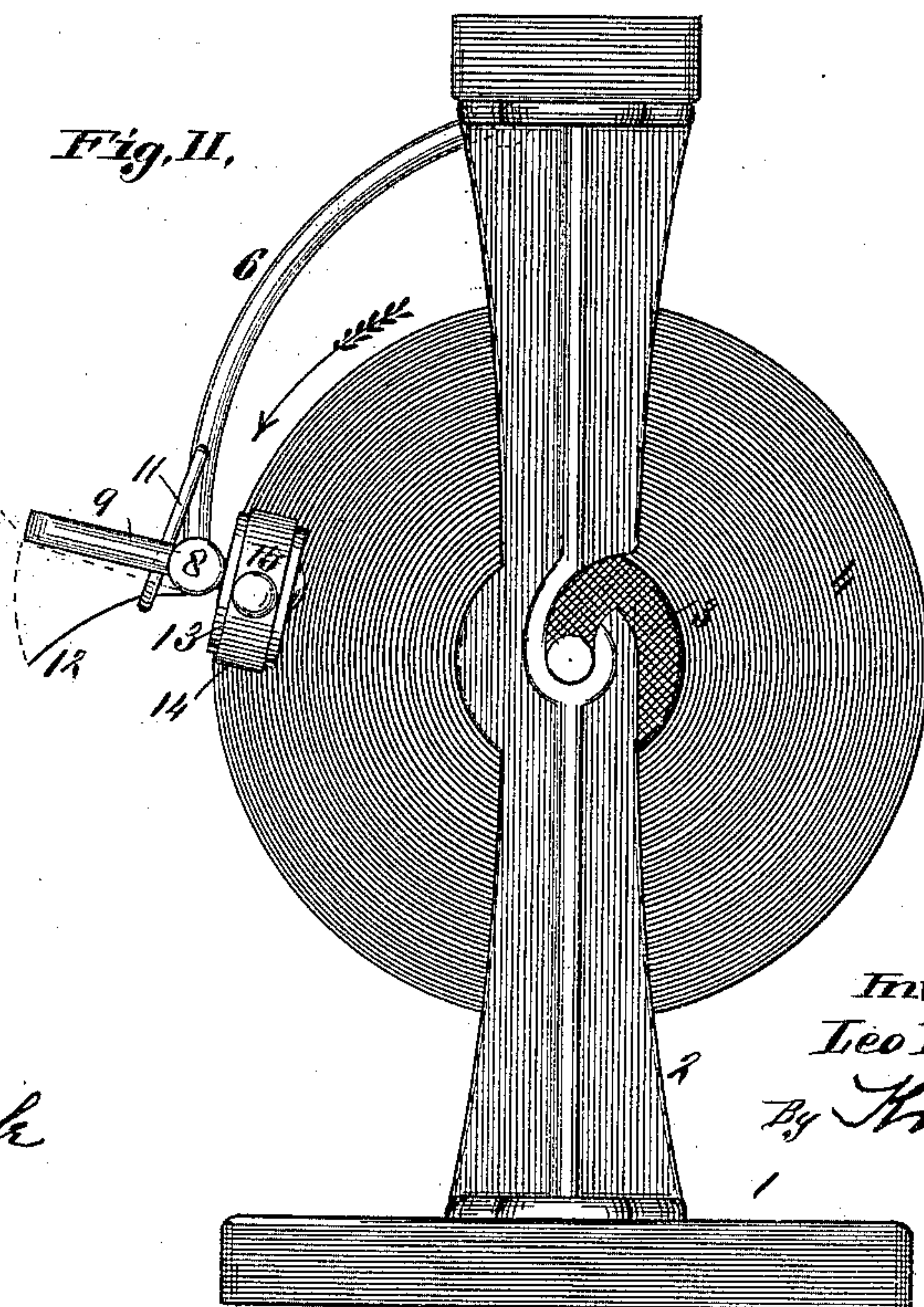


Fig. II,



Attest;
E. Arthur
W. J. Garcon

Inventor;
Leo Ehrlich
By Knight Bros
attys

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Fig. IV

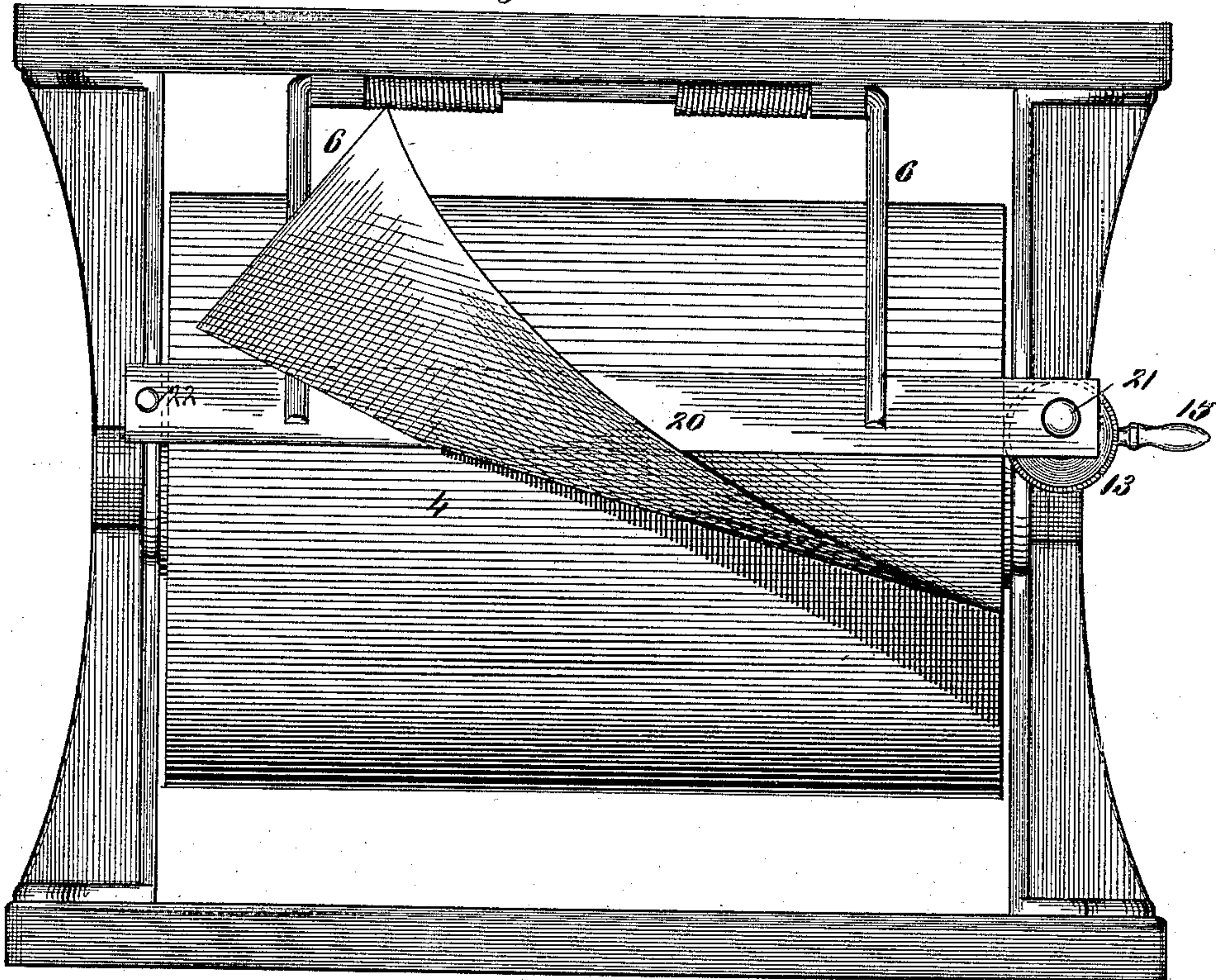


Fig. V

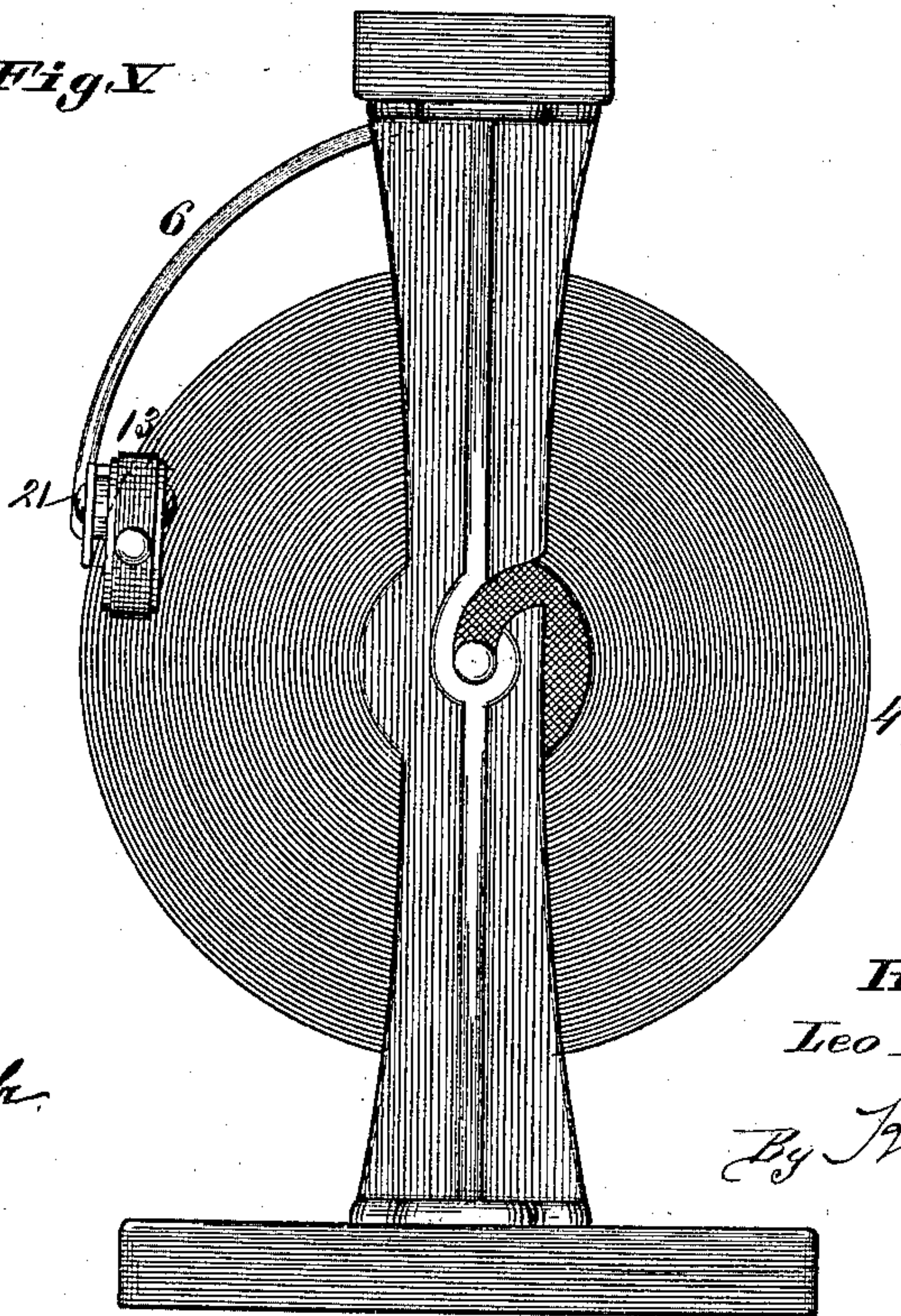
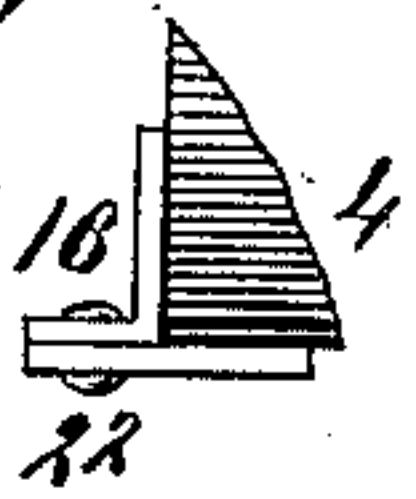


Fig. VI



Attest:
E. Arthur.
W. J. Garcomb.

Inventor:
Leo Ehrlich
By Knight Bros
Attys

UNITED STATES PATENT OFFICE.

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

PAPER-CUTTER.

SPECIFICATION forming part of Letters Patent No. 405,402, dated June 18, 1889.

Application filed June 30, 1888. Serial No. 278,608. (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 Paper-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 view. Fig. III is a detail top view. Fig. IV is a front elevation showing a modified form. Fig. V is an end view of the same, and Fig. VI is a detail top view.

My invention relates to an improvement in machines for holding 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 a suitable base; 2, end pieces or standards; 3, a roller upon which the paper 4 is wound, and 5 a cross-piece secured to the upper ends of the standards 2.

6 represents spring-arms secured to the cross-piece 5, and to the lower ends of which the knife 7 is secured, as shown clearly in Fig. I, the knife being preferably secured to the spring-arms by means of a rod or bar 8, which is directly connected to the spring-arms by riveting or otherwise, and to this rod or bar the knife 7 is secured by intumed ends 9, the ends preferably passing through perforations in the bar or rod and riveted at 10, Fig. III.

It will be seen that the knife 7 is situated a distance from the roll of paper and does not bear upon the roll, but the bar or rod 8 does bear upon the roll, and gives the proper tension to prevent the too free movement of the roll.

11 represents a rod or small wire bail, secured, preferably, to the arms 6, as shown in Figs. I and II, and which extends from the arms in an outward direction to the ends of the roll, and then passes across in front of the roll, as shown in Fig. I. The end of the paper is passed over this wire, as shown clearly in Fig. II, and the wire holds the end of the

paper away from the roll, so as to form an easy finger-hold, as shown at 12, Fig. II. When a piece of paper is wanted, the end 12 is taken hold of, and when the desired amount of paper is pulled out it is severed by moving it upward against the knife, as shown in Fig. I and by dotted lines in Fig. II.

While the bar or rod 8 gives a tension to the roll of paper, it does not afford a positive means of preventing the backward movement of the roll. To accomplish this I pivot an eccentric 13 (made, preferably, in the form of a disk) to one end of the knife 7, or to any other suitable support in proximity to the end of the roll of paper. I prefer securing it to one end of the knife, (this is shown clearly in Fig. II,) as it will in this way always bear against the outer portion of the roll and be automatically moved inward toward the center of the roll as the paper is removed—that is, it moves inward in this direction as the paper is taken off. The large part of this eccentric is on the retreating side of the roll of paper, as shown in Fig. I, so that as the roll of paper is moved in the direction indicated by the arrows the cam will not interfere with the turning of the roll, but will prevent its turning in the other direction, or a backward direction.

The cam may be provided with a rubber band 14, if desired, and may also be provided with a handle 15, by which it may be turned in the direction indicated by the small featherless arrow in Fig. I, to allow the backward turning of the roll in case it should be desired to turn it backward. The cam will have a tendency, of course, to move the roll of paper endwise in a direction away from it. To prevent this movement of the roll, I secure a bracket 16 to the rod 8 at the side of the machine away from the eccentric, (see Fig. III,) which will act to prevent the movement of the roll away from the eccentric 13.

In Figs. IV to VI, inclusive, I have shown the cam 13 and bracket 16 applied to what is known in the market as the "Hopkins" paper-cutter, the eccentric being journaled to one end of the knife 20 by a pin 21, and the bracket 16 being secured to the other end of the knife by a rivet 22.

I claim as my invention—

1. In a paper-cutter, the combination of a suitable support, a roll of paper, a knife located a distance from the roll of paper, and a
5 wire bail located just beneath and adjacent to the knife for supporting the end of the paper, substantially as and for the purpose set forth.

2. In a paper-cutter, the combination of a
10 suitable support, a roll of paper, a suitable knife, and an eccentric cam bearing against the end of the roll of paper to prevent its retrograde movement, substantially as and for the purpose set forth.

15 3. In a paper-cutter, the combination of a suitable support, a roll of paper, a suitable knife, and a cam pivoted to a suitable support at one end of the roll of paper and bearing against the roll of paper to prevent its

retrograde movement, substantially as and 20 for the purpose set forth.

4. In a paper-cutter, the combination of a suitable support, a roll of paper, a suitable knife, and a cam pivoted to a suitable support and provided with an elastic band and 25 a handle and bearing against the roll of paper, substantially as and for the purpose set forth.

5. In a paper-cutter, the combination of a suitable support, a roll of paper, a suitable knife, an eccentric located at and bearing 30 against one end of the roll of paper, and a bracket located at the other end of the roll of paper, substantially as and for the purpose set forth.

LEO EHRLICH.

In presence of—

GEO. H. KNIGHT,
JOS. WAHLE.