

(No Model.)

J. H. CORNELISON.
ROLL PAPER HOLDER AND CUTTER.

No. 452,690.

Patented May 19, 1891.

Fig. I

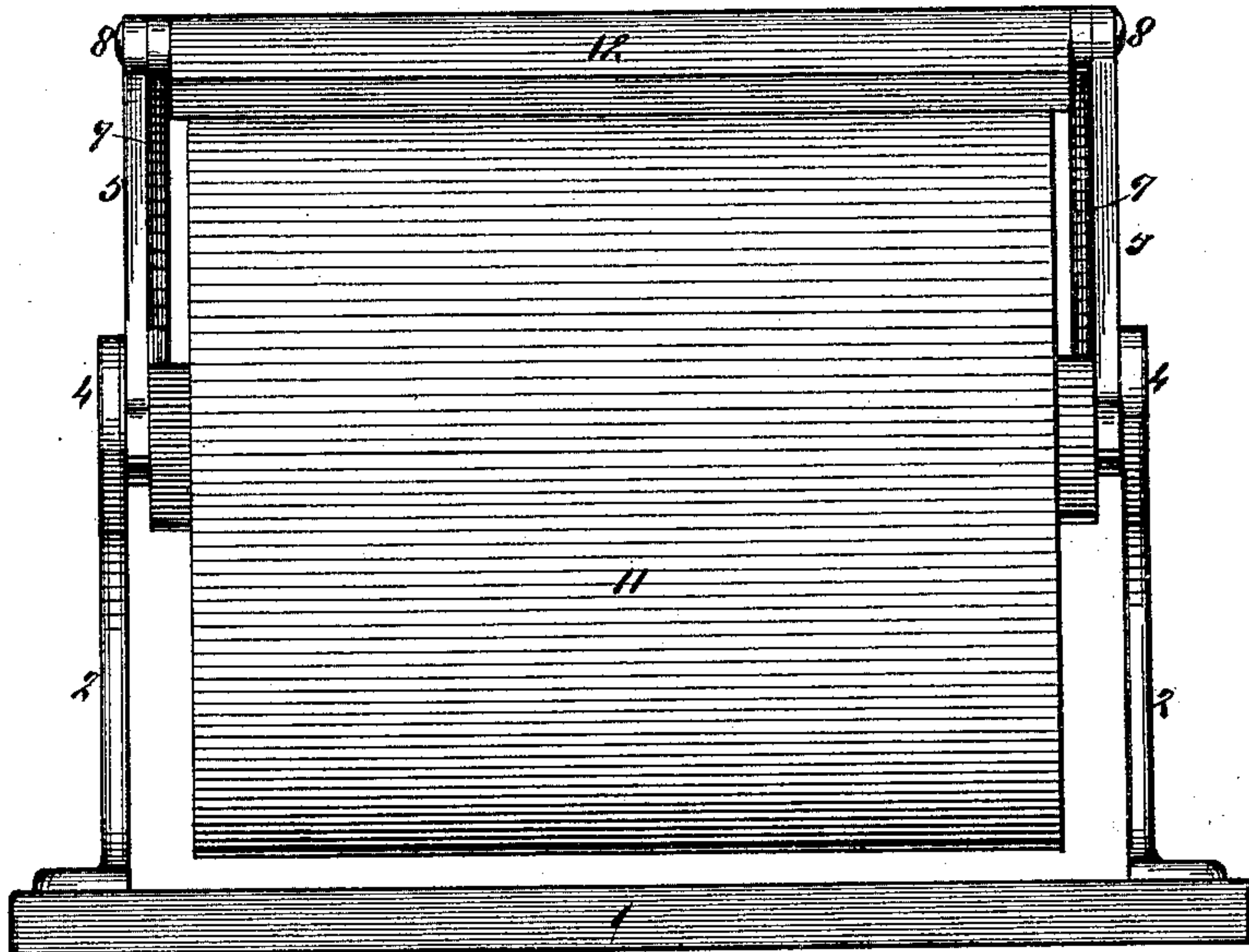


Fig. II.

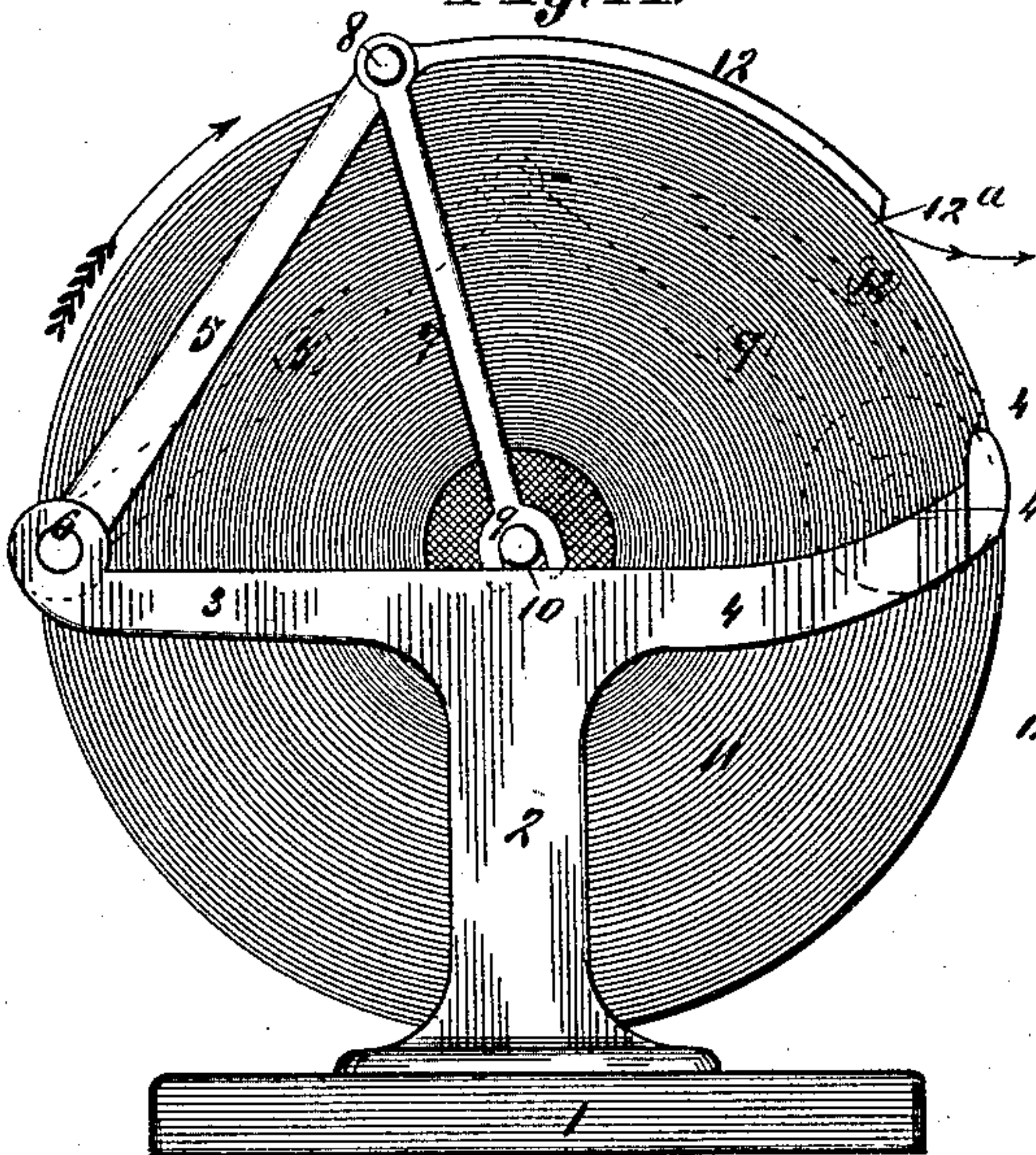
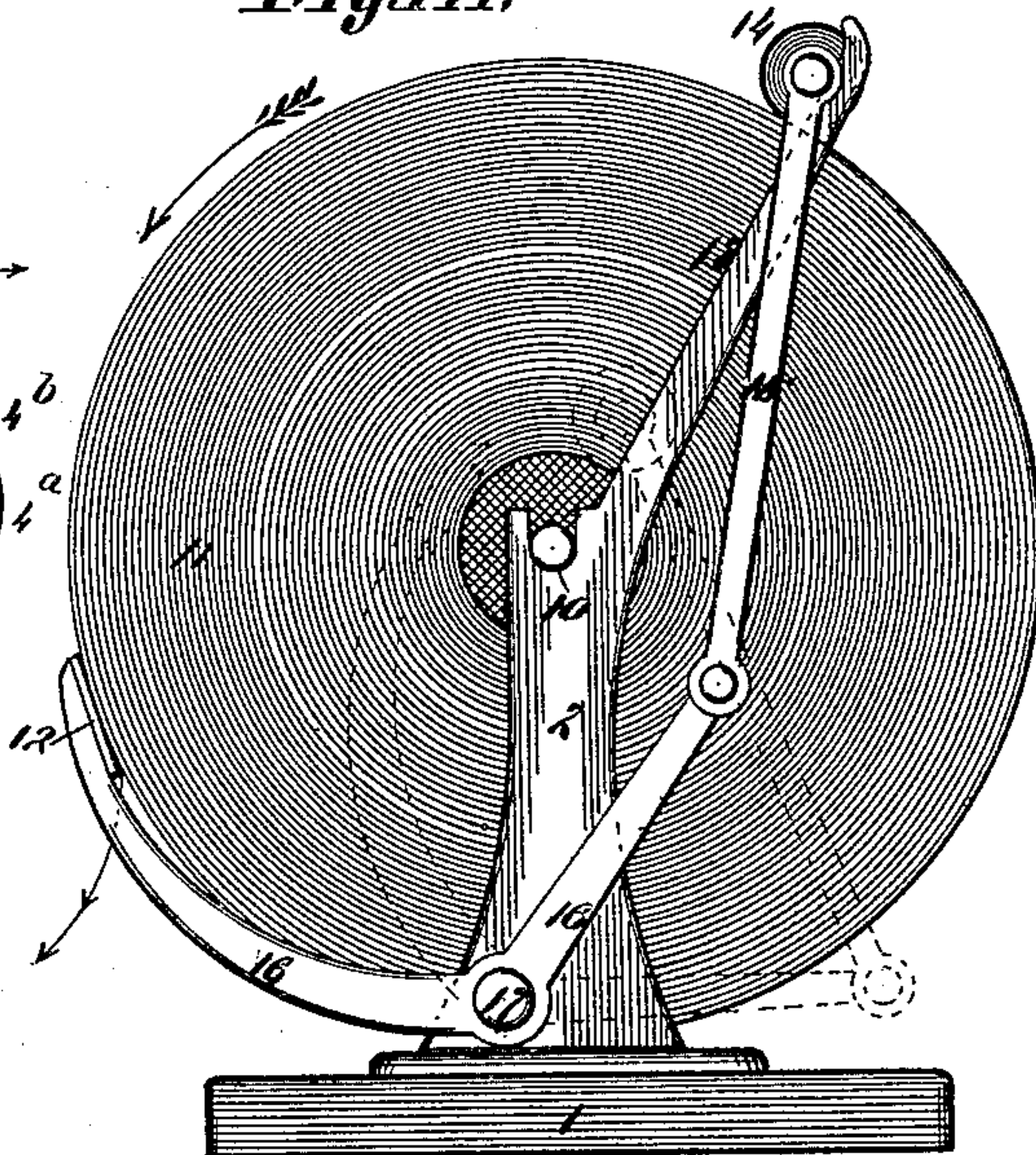


Fig. III.



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UNITED STATES PATENT OFFICE.

JOHN H. CORNELISON, OF ST. LOUIS, MISSOURI, ASSIGNOR TO THE AMERICAN
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ROLL-PAPER HOLDER AND CUTTER.

SPECIFICATION forming part of Letters Patent No. 452,690, dated May 19, 1891.

Application filed June 7, 1890. Serial No. 354,581. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. CORNELISON, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful
5 Improvement in Roll-Paper Holders 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.

10 My invention relates to certain improvements 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.

15 Figure I is an elevation of my improved machine. Fig. II is a side view, and Fig. III is a side view illustrating a modification.

Referring to the drawings, 1 represents a suitable base, to which standards 2 are secured.
20 On the upper end of each standard (there is a standard at each end of the machine) is a cross-head 3 4. To the ends 3 of the cross-heads levers 5 are pivoted at 6.

7 represents links pivoted at 8 to the upper
25 ends of the levers 5 and form therewith toggle-levers. These links 7 are provided with slotted ends 9, fitting the journals 10 of the spindle upon which the roll 11 of paper is wound. The journals 10 rest on the cross-heads 3 4,
30 as shown in Fig. II. The outer ends 4 of the cross-heads are preferably curved upwardly, as shown at 4^a, Fig. II, and on the extremities of the ends 4 of the cross-heads are projections or heads 4^b, which prevent the journals 10 being moved off the cross-heads as the
35 roll of paper becomes exhausted.

12 represents a knife secured to the upper
40 ends of the levers 5 and which has a cutting-edge 12^a. The knife is preferably curved to substantially conform to the contour of the roll, as shown in Fig. II. As the size of the roll decreases, it is forced along the cross-heads from the position shown in full lines, Fig. II, to the position shown in dotted lines,
45 the space between the levers 5 and the links 7 widening or opening out and the knife falling so as always to remain in contact with the surface of the roll. It will be seen that as the roll decreases in size and therefore be-
50 comes lighter its retrograde movement is prevented by the toggle-levers, which are

constantly approaching a horizontal position with a gradual increase of pressure on the journals of the rolls, and the result of this is that a gradually-increasing pressure is main- 55
tained between the knife and roll, the decrease or deficiency in the weight of the roll, which would ordinarily prevent obtaining sufficient pressure to sever the paper, being counteracted by the increased pressure of the toggle-levers. 60

To partly equalize or moderate the constantly-increasing pressure between the knife and roll when the roll is almost exhausted, I provide the inclines 4^a of the ends 4 of the 65
arms upon which the journals 10 of the spindle of the roll move, so that no trouble will be experienced in severing even the last portion of paper.

In the form of my invention shown in Fig. 70
III the knife 12 is secured to the outer ends of bell-crank levers 16, which are pivoted at 17 to standards 2. The standards have inclined extensions 13, against which bear a roller 14, journaled in the upper ends of links 75
15, which are connected at their lower ends to the inner ends of the bell-crank levers 16. In this form of my invention the parts move from the position shown in full lines, Fig. III, toward the position shown in dotted lines 80
as the size of the roll decreases, and as the size of the roll diminishes the weight 14 has a more direct bearing upon the inner ends of the bell-crank-levers 16, and thus compensates for the decreased size of the roll by 85
holding the knife with greater pressure against the roll when it is small than when it is large.

I claim as my invention—

1. In a roll-paper holder and cutter, the 90
combination of a suitable support for the roll of paper, levers pivoted to the supports, a knife carried by the pivoted levers, and links pivoted to the levers and which act on the roll of paper, whereby a substantially uniform 95
pressure between the knife and the roll is maintained, as specified.

2. In a roll-paper holder and cutter, the combination of suitable supports, cross-heads formed on the upper ends of the supports, le- 100
vers pivoted to one end of the cross-heads, a knife secured to the levers, a roll of paper rest-

ing on the cross-heads, and links pivoted to the levers and resting on the journals of the roll of paper, substantially as and for the purpose set forth.

5 3. In a roll-paper holder and cutter, the combination of suitable supports, cross-heads on the upper ends of the supports, levers pivoted to one end of the cross-heads, a knife secured to the levers, a roll of paper resting on
10 the cross-heads, and links pivoted to the levers and resting on the journals of the roll of paper, said knife being formed to fit the contour of the roll and having a cutting-edge removed from the pivot-point of the knife, substan-
15 tially as and for the purpose set forth.

4. In a roll-paper holder and cutter, the combination of the supports, cross-heads on the upper ends of the supports and having
20 ends 4, provided with inclines 4^a, levers hinged to the ends 3 of the cross-heads, a knife secured to the upper ends of the levers, and links pivoted to the upper ends of the levers and resting on the journals of the roll of paper, substantially as and for the purpose set forth.

25 5. In a roll-paper holder and cutter, the combination of suitable standards, cross-heads

3 4, secured to the upper ends of the standards, the ends 4, having inclines 4^a and projections 4^b, levers pivoted to the ends 3 of the cross-heads, a knife secured to the levers, and
30 links pivoted to the upper ends of the levers and slotted at their lower ends to fit the journals of the roll of paper, substantially as and for the purpose set forth.

6. In a roll-paper holder and cutter, the
35 combination of suitable standards supporting a roll of paper, toggle-levers pivoted to the roll-supporting frame, and a knife secured to the toggle-levers, substantially as herein set forth.
40

7. In a roll-paper holder and cutter, the combination of suitable standards provided with horizontal ways for the roll-supporting spindle to travel on, and a knife, with suitable toggle-levers carrying said knife and
45 actuating the roll of paper in its horizontal ways, substantially as herein set forth.

JOHN H. CORNELISON.

In presence of—

THOS. KNIGHT,
E. S. KNIGHT.