

No. 617,937.

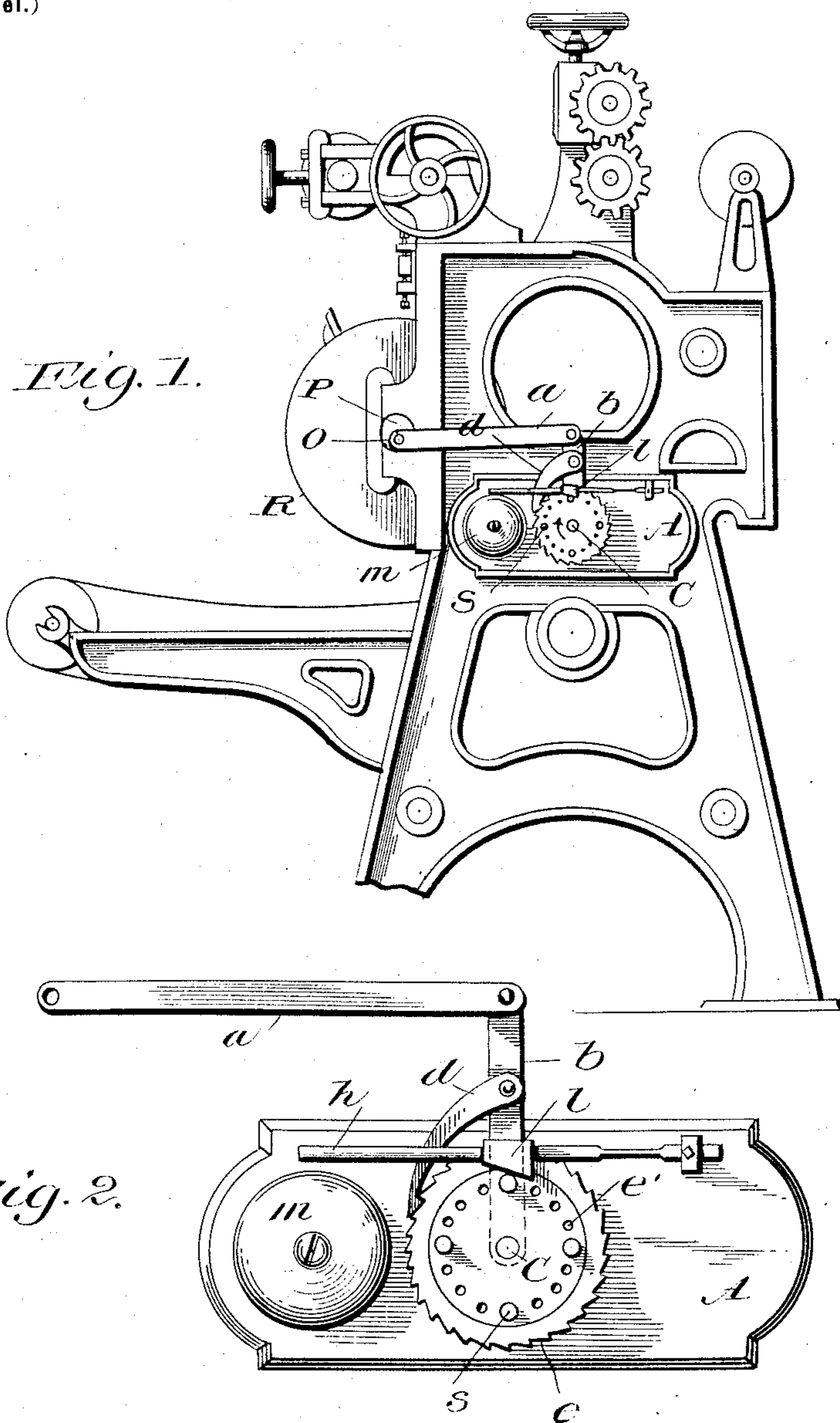
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C. H. REMINGTON.

COUNTING ATTACHMENT FOR ROTARY PAPER CUTTERS.

(Application filed July 16, 1898.)

(No Model.)



Witnesses
L. C. Hills
W. D. Hough

Inventor
Chas. H. Remington,
by
Franklin H. Hough
Attorney

UNITED STATES PATENT OFFICE.

CHARLES H. REMINGTON, OF WATERTOWN, NEW YORK, ASSIGNOR TO THE
C. R. REMINGTON & SON COMPANY, OF SAME PLACE.

COUNTING ATTACHMENT FOR ROTARY PAPER-CUTTERS.

SPECIFICATION forming part of Letters Patent No. 617,937, dated January 17, 1899.

Application filed July 16, 1898. Serial No. 686,140. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. REMINGTON, a citizen of the United States, residing at Watertown, in the county of Jefferson and State of New York, have invented certain new and useful Improvements in Counting Attachments for Rotary Paper-Cutters; 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 the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in attachments for paper-cutting machines, and especially to a device for counting the sheets of paper as they are cut by a rotary cutting-cylinder and when a certain number of sheets are cut the ringing of a bell as a signal to the operator in charge, who may remove the sheets thus counted, and the counting repeated.

More specifically my invention resides in the provision of an attachment to a rotary paper-cutter, whereby at each revolution of the rotary cutter an intermittent rotary movement is imparted to a ratchet-wheel by means of a pitman which has an eccentric connection at one end with the shaft of the rotary cutter while its other end is pivoted to a link carrying a pawl which is designed to engage with the teeth of the ratchet-wheel for rotating the same. In connection with the foregoing I provide a means for tripping a bell-hammer as many times as may be desired during each revolution of the ratchet-wheel.

To these ends and to such others as the invention may pertain, the same consists, further, in the novel construction, combination, and adaptation of parts, as will be hereinafter more fully described and then specifically defined in the appended claim.

The present invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which drawings similar letters of reference indicate like parts throughout both views, in which—

Figure 1 is an enlarged view in side elevation of the ratchet-wheel, bell, pawl, and pit-

man, showing the bell-hammer, which rides on a series of pegs. Fig. 2 is an enlarged detail view, in side elevation, of the ratchet-wheel, arranged with means for striking the bell at various times during the revolution of the ratchet-wheel.

Reference now being had to the details of the drawings by letter, A designates the plate, secured to the end of the frame of the rotary cutter. This plate carries a stub-shaft *c*, on which is pivoted the link *b*, also the ratchet-wheel *e*.

In the drawings, R designates the rotary cutting-cylinder, which may be of any well-known construction and which does not form any part of the present invention. This cutter is mounted on a shaft supported in the frame of the machine, and pivoted on a pin O, eccentrically mounted in the end of the said shaft *p*, is one end of the pitman *a*, the other end of which pitman is pivoted to the upper end of the link *b*, before referred to. Pivoted to the said link at any suitable location is the pawl *d*, the free hooked end of which rests normally on the toothed circumference of the ratchet-wheel.

In order to arrange the mechanism so that the bell *m* will be struck a number of times during each revolution of the ratchet-wheel, it is my purpose to employ the construction shown plainly in Fig. 2. In Fig. 2 I have shown a bell-hammer *h*, which is pivoted to the plate A and has a contracted portion *i*, as shown. Carried on said hammer is the block *l*. The ratchet-wheel has a series of perforations near its circumference in its face a suitable distance apart, and in these perforations pins S are adapted to be placed, against which pins the block *l*, carried by the hammer, is adapted to strike in the revolution of the said ratchet-wheel. If it is desired to have the bell strike four times in one revolution of the ratchet-wheel, four pins are to be placed equal distances apart in the row of perforations. If it is desired to have the bell strike more times during the revolution of the ratchet-wheel, the pegs are placed nearer together, and each time a pin strikes the block the hammer will strike the bell, as will be understood.

Having thus described my invention, what

I claim to be new, and desire to secure by Letters Patent, is—

A device for counting sheets of paper as they are cut by a rotary paper-cutter, comprising
5 in combination the ratchet-wheel having a series of perforations therein, pins carried in said perforations, the rotary paper-cutter shaft, eccentric-pin, pitman, link-and-pawl connections with the teeth of the ratchet-
10 wheel, the bell-hammer bolted to the plate carrying said ratchet-wheel, and the block

carried by the bell-hammer and provided with an inclined under surface which is disposed in the path of the revolving pins, as set forth.

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

CHAS. H. REMINGTON.

Witnesses:

A. E. MCALLISTER,
J. F. LUTHER.

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