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C. H. REMINGTON.

COUNTING ATTACHMENT FOR ROTARY CUTTERS.

(Application filed Dec. 23, 1897.)

(No Model.)

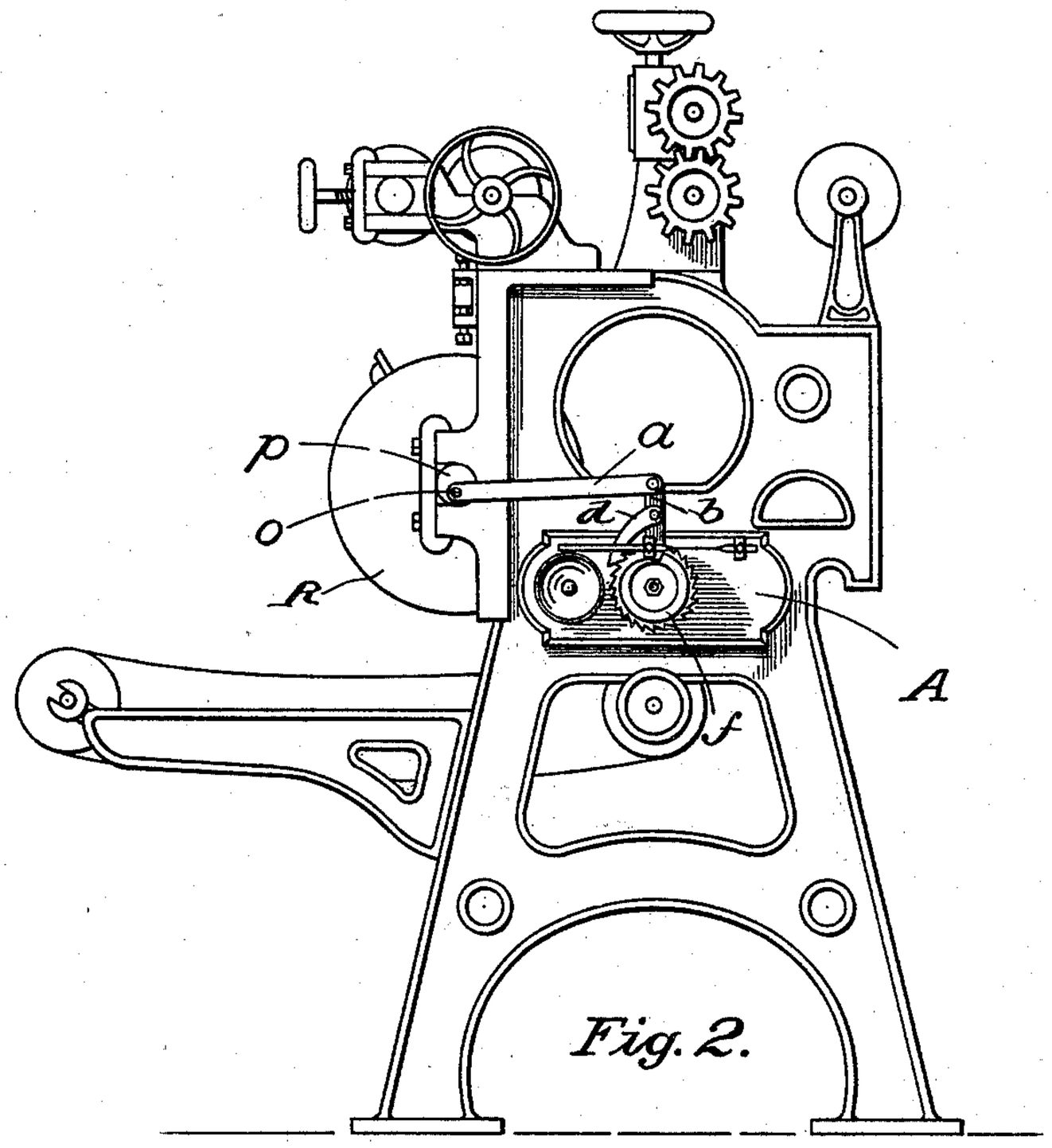

Fig. 2.

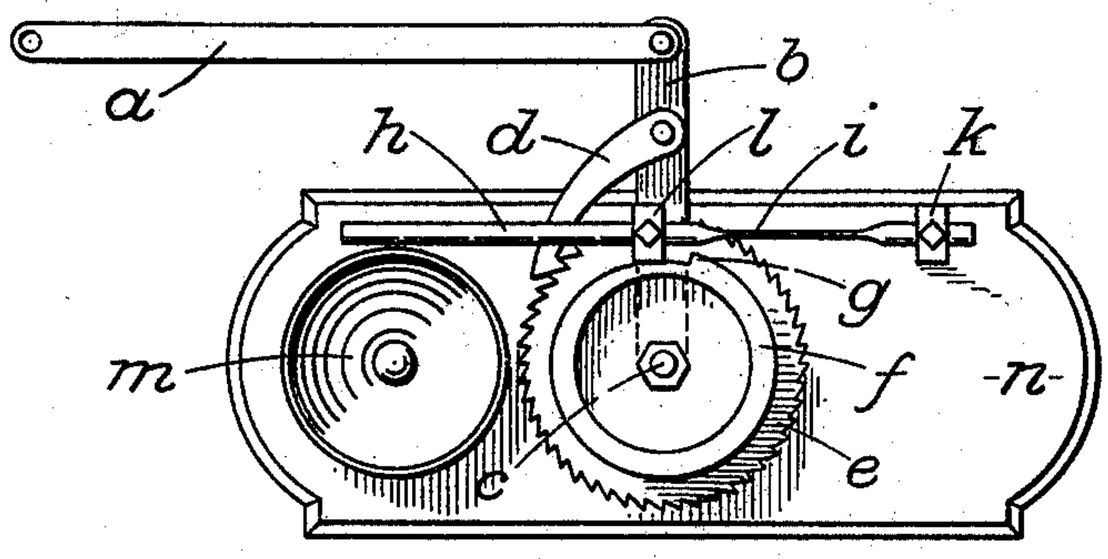

Fig. 1.

WITNESSES:

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COUNTING ATTACHMENT FOR ROTARY CUTTERS.

SPECIFICATION forming part of Letters Patent No. 609,296, dated August 16, 1898.

Application filed December 23, 1897. Serial No. 663,277. (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 the several views, in which—

Figure 1 is an enlarged view, in side elevation, of the ratchet-wheel, bell, pawl, and pitman, showing the cam-track on which the bell-hammer rests. Fig. 2 is an end elevation of a rotary paper-cutter, showing the counting mechanism operated by the shaft of the rotary cutter.

Reference now being had to the details of the drawings by letter, A designates a 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* and also the ratchet-wheel *e*. In the drawings are shown at *f* a flange having a cam-shaped circumference which terminates in a shoulder, as at *g*. Pivoted to the said plate A at *k* is one end of the bell-hammer *h*, which hammer is contracted, as at *i*. Carried on the hammer is the block *l*, the lower end of which rests on the cam-shaped circumference of the shoulder or flange *f* on the ratchet-wheel, and as the ratchet-wheel is rotated it will be seen that the bell-hammer will be raised up by the cam-shaped circumference of the flange, and when the ratchet-wheel has made a complete revolution the said block *l* will drop down over the shoulder *g* and the free end of the bell-hammer will strike the bell.

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 this 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 said ratchet-wheel.

In operation at each revolution of the rotary cutter and its shaft, which cuts off a sheet of paper, the ratchet-wheel will make a partial revolution by means of the pawl engaging in one of the teeth of the ratchet-wheel as the pitman, connected eccentrically to the shaft, works back and forth, as will be readily understood.

Having thus described my invention, what I claim to be new, and desire to secure by Letters Patent, is—

In a device for counting sheets of paper as they are cut by a rotary paper-cutting machine, the combination with the shaft on which the cutter-cylinder is mounted, the eccentric-pin on the said shaft, the ratchet-wheel mounted on a stub-shaft, the cam-flange terminating in a shoulder on the face of the said wheel, the pitman connected at one end to the said eccentric-pin, the link connecting the other end of the said pitman with the stub-shaft, the pawl pivoted to the said link and the pivoted bell-hammer and block carried thereby, which latter rides on the cam-surface of the ratchet-wheel, as shown and described.

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

CHARLES H. REMINGTON.

Witnesses:

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