

(No Model.)

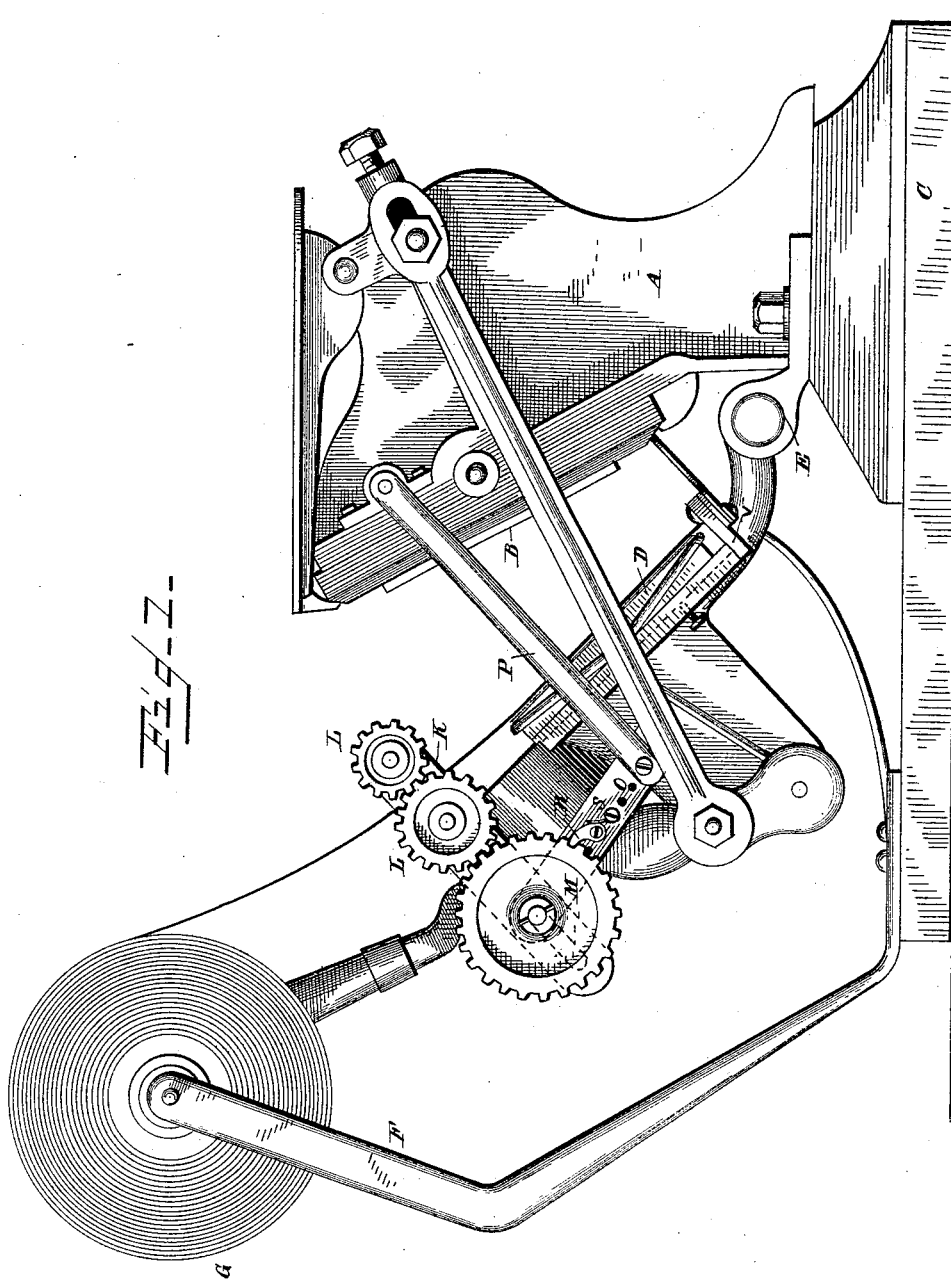
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D. L. WORTENDYKE.

PAPER FEEDING DEVICE AND CUTTER FOR PRINTING MACHINES.
No. 348,506. Patented Aug. 31, 1886.

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Witnesses

Edwin L. Jewell,

W. C. Chaffer

Inventor:

D. L. Wortendyke

By *his* Attorney

Edw. J. Incebaugh

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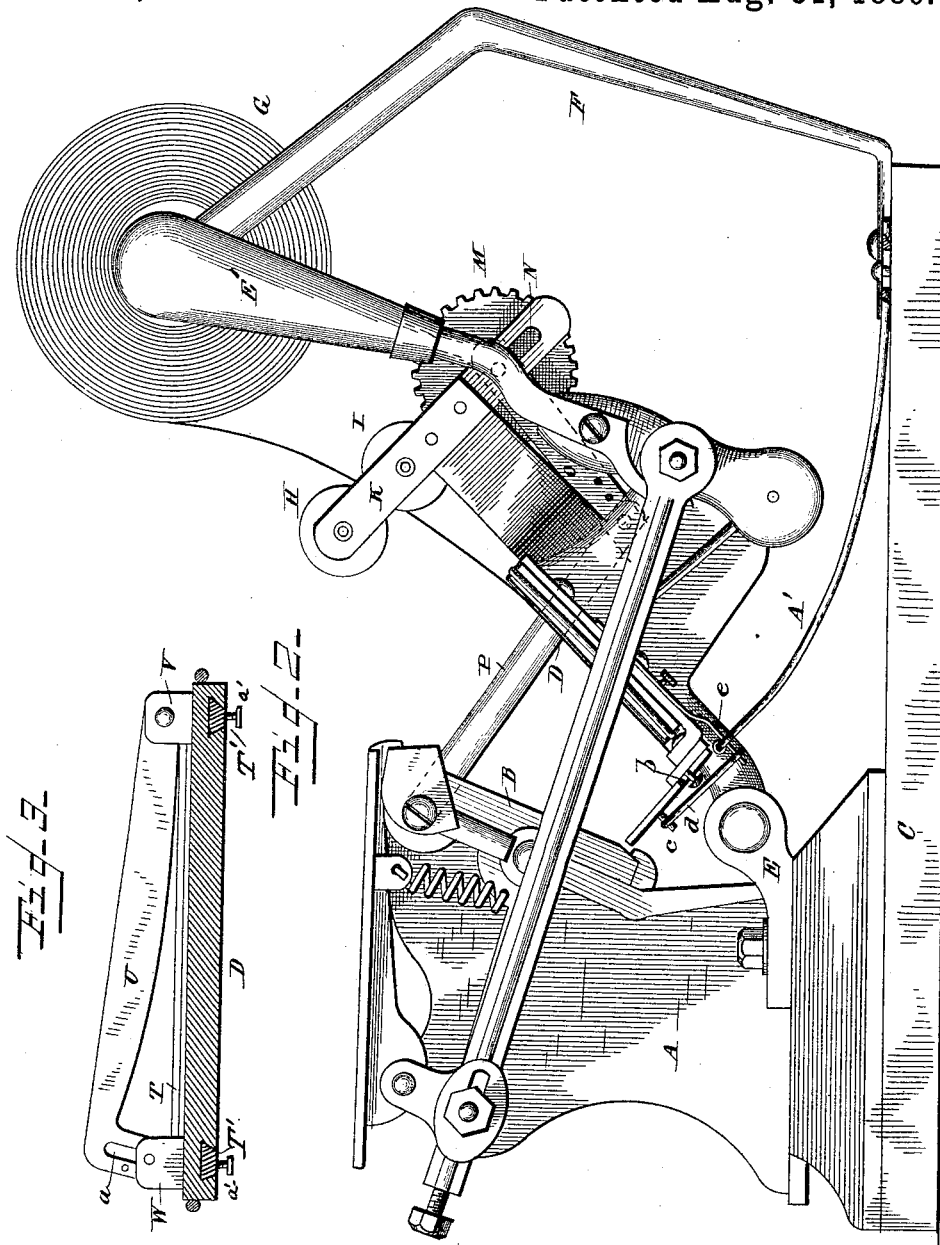
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UNITED STATES PATENT OFFICE.

DAVID L. WORTENDYKE, OF MIDLAND PARK, NEW JERSEY.

PAPER-FEEDING DEVICE AND CUTTER FOR PRINTING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 348,506, dated August 31, 1886.

Application filed March 15, 1886. Serial No. 195,223. (No model.)

To all whom it may concern:

Be it known that I, DAVID L. WORTENDYKE, a citizen of the United States, residing at Midland Park, in the county of Bergen and State of New Jersey, have invented certain new and useful Improvements in Paper-Feeding Devices and Cutters for Printing-Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to improvements in printing-presses.

The object of my invention is to feed the paper from a continuous roll over the platen of the press, and after the impression has been made thereon, to cut the same into suitable lengths, as will more fully appear.

Referring to the drawings, Figure 1 is a side elevation of an ordinary oscillating printing-press with my attachments secured thereto. Fig. 2 is also an elevation of the other side of the machine. Fig. 3 is a sectional view of a portion of the platen and front view of the knives or cutters.

A indicates the frame in which the type-bed B is mounted, said frame being secured to a suitable base, C, in a firm and substantial manner.

D is the platen, the lower end of which is pivoted to brackets E near the bottom of the type-holding frame, said platen being moved to and from the type-bed by means of the lever E', in the manner usually practiced with this class of machines.

F are brackets secured to the base of the machine, in the upper ends of which is mounted the roll or web of paper G.

H and I are the feed-rolls, between which the strip of paper is passed and by which it is fed forward over the platen, said rollers being mounted in bars K, secured to each side of the upper end of the platen. These rollers are covered with soft rubber and placed close together, and are made adjustable for paper of different thickness, so they will impinge on the paper and draw it from off the roll G.

The rollers H and I are provided at one end with pinion-wheels L, which mesh with each other and with a spur-wheel, M, mounted in suitable bearings in one of the bars K. The spur-wheel M is mounted in a slot, N, in one

of the bars K, so that if larger or smaller wheels are to be used to regulate the feed of the paper, and thus regulate the width or length of the paper to be fed forward to receive the impression, it can be readily done by interchanging the wheels M.

O is a bar, one end of which is secured to the pivot or axis of the pinion-wheel M, the other end being secured to the end of the bar P, while the other end of the bar P is secured to the type-holding frame A. The bar O is provided with a pawl, R, which is held into engagement with the teeth of the pinion-wheel M by means of the spring S, said pawl being adjustable in the holes in the bar O, so as to adapt it to wheels of different size.

It will be noticed that as the platen D is moved toward the type-bed B to have the impression made on the paper, the lower end of the bar O will be moved backward and the pawl moved over a certain number of teeth in the pinion-wheel M, and that as the platen is moved back from the type-bed the bar O will be drawn over, turning the wheel M and the rolls H and I through the pinion-wheels L, thus feeding the paper forward in proper position to receive the next impression from the type in the bed B.

T is a knife-blade secured to the lower end of the bars T', which are made adjustable in the platen D by set-screws *a'*, and U is a similar knife-blade pivoted at one end to the lug or bracket V on the end of the adjustable bars T'. The free end of the knife U is provided with a slot to receive a headed pin or bolt secured to the lug or bracket W on the bar T', and by which means the knife U is guided and held in position. The rear side of the knife U is provided with a stud or projection, C, to which one end of the rod *d* is connected, the other end of the rod *d* being connected to the strap-spring or bar *e*, which is secured to the under side of the platen D, as shown in Fig. 2.

A' is a bar or rod, one end of which is adjustably secured to the base C, while the other end is hooked over or otherwise secured to the spring *e*, so that when the platen D is moved up to make the next impression on the paper the free end of the knife will be drawn down, and the length of paper which has been

printed upon and previously fed down between the knives T and U will be cut off and will drop onto the base C.

The device just described is specially applicable for printing cards from a strip of paper, but may be used to advantage in printing labels, posters, and other articles.

Any of the well-known inking appliances may be attached to the machine, and the machine may be arranged so as to be driven by a power-shaft, instead of with a hand-lever, as described.

In most of the devices of this kind the type-bed is movable toward and from a fixed platen; but, as the type are heavy and cumbersome, I make the type-bed stationary and move the platen, with the paper passing thereover movable toward and from the type-bed, and am enabled to bring the paper squarely in contact with the type without mackling or blurring the letters.

It will be noticed that by making the knives adjustable I am enabled to cut cards of different lengths, and the danger of cutting through the printed matter is obviated.

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

1. In a printing-machine of the character described, the platen movable toward and from the type-bed, carrying mechanism, substantially as described, to feed the web forward

by the backward movement of the platen, and a cutting device, substantially as described, for cutting the paper by the forward movement of the platen, all combined as set forth.

2. In printing-machines of the character described, the knives or cutters T U, adjustably secured to the lower end of the platen, as described, in combination with the adjustable rod A', spring-bar e, and rod d, whereby the cutters are operated by the forward movement of the platen, as set forth.

3. In a printing-machine of the character described, the combination of the oscillating platen, the feed-rolls mounted on the upper end of the platen, and devices, substantially as described, for turning said rolls and feeding the web downward during the backward movement of the platen, as set forth.

4. In devices for feeding a continuous web of paper to a printing-machine, the bar K, provided with the slot, in combination with the wheel M, interchangeably mounted in said slot, the feed-rolls H I, provided with the pinion-wheels L L', and bar O, carrying an adjustable pawl, n, as set forth.

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

DAVID L. WORTENDYKE.

Witnesses:

GEORGE BEESLEY,
R. VAN HOUTEN.