

P. J. SMITH.
ENVELOPE-MACHINE.

No. 185,410.

Patented Dec. 19, 1876.

Fig. 1

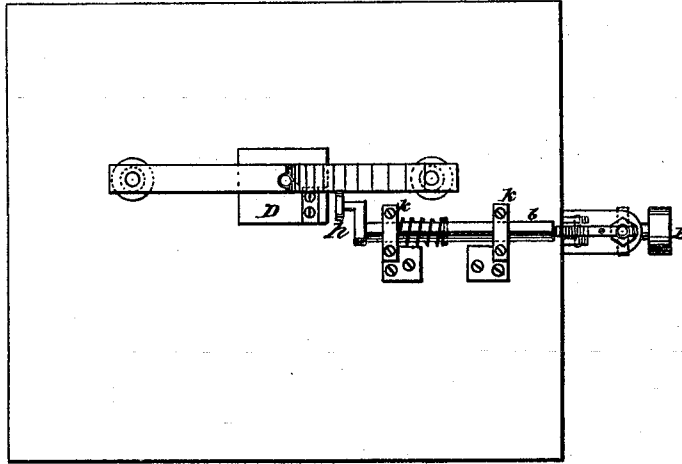


Fig. 2

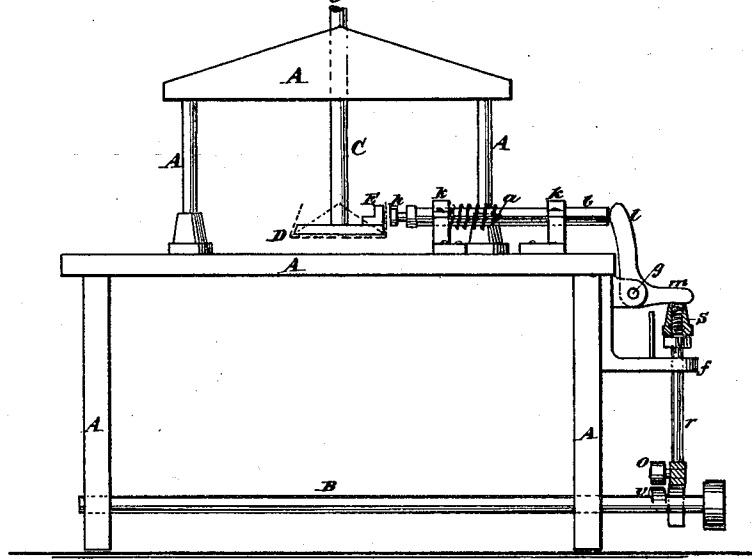
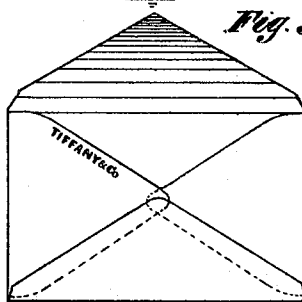


Fig. 3



Witnesses:

Wm. D. L. Hunt
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Inventor

Peter J. Smith
per *Julius R. Pomeroy*
att'y

UNITED STATES PATENT OFFICE.

PETER J. SMITH, OF NEW YORK, N. Y., ASSIGNOR TO MARY E. DICKINSON
AND MARY A. SMITH, OF SAME PLACE.

IMPROVEMENT IN ENVELOPE-MACHINES.

Specification forming part of Letters Patent No. 185,410, dated December 19, 1876; application filed
October 9, 1876.

To all whom it may concern:

Be it known that I, PETER J. SMITH, of the city, county, and State of New York, have invented an Attachment to an Envelope-Folding Machine, of which the following is a specification:

The object of my invention is to effect the stamping of letters and words, usually the name of the manufacturer, on the margin of an envelope, simultaneously with the folding of the envelope, when done by the aid of machinery.

In my experiments and in practice I have used the envelope-folder patented by George H. Reay, August 25, 1863. This machine is adapted to the folding of letter envelopes.

My attachment enables the operator to stamp the name of the manufacturers on the margin of one of the fly-leaves of the envelope at the same time that it is being folded by the machine. The figures in the accompanying drawings show this attachment.

Figure 1 is a top view of the same, and Fig. 2 is a plan of the same. Fig. 3 exhibits an envelope folded, showing the place on the margin where the name of the manufacturer is stamped by the aid of my attachment.

I have not deemed it necessary to show the driving mechanism, nor any portion of the folding-machine, except the frame-work and the slide which takes the envelope at the point where my attachment comes into operation.

In Fig. 2 such frame-work is shown at A A A A A A. At B is seen the driving-shaft by which the folding-machine is worked. At C is shown a vertical shaft belonging to the machine, with a plate, D, which, during the operation of the machine, receives the envelope in a partially-folded state, this shaft working up and down, and the position of the envelope at the time of receiving the impression of the stamp from my attachment, being shown by the dotted lines.

My attachment consists of a pressure-rod, *r*, pressure-regulator *s*, lever *l m*, which is bent at right angles, or nearly so, and works on a pivot or hinge at *g*, held by a bracket

fastened to the frame of the machine. The end of the lever, at *l*, presses against one end of a stamping-bar, *b*, at the other end of which the die *h* is fastened. At *e* is shown the counter attached to the plate D of the folding-machine, against which counter the die *h* is forced at the proper time by the action of the bent lever *l m*. The bracket to which the lever is attached has also an arm at *f*, through which the pressure-rod works. This pressure-rod is attached to an extension of the driving-shaft B by a loop, and has a projecting button or roller at O, against which, at the proper time, the cam *v* impinges, and thereby raises the pressure-rod. This, in turn, strikes the bent lever, which, by its action, thrusts the stamping-bar and the die *h* against the counter *e* at the moment the envelope, in the process of folding, presents one of its fly-leaves against such counter attached to the plate D.

The position of the cam *v* on the driving-shaft of the machine determines the motion of the pressure-rod, and must be so placed that at the proper time it shall impinge on the button or roller O, and raise the pressure-rod.

At the end of the pressure-rod, next to the bent lever, I screw on a cap at *s*, of brass, or other proper material, the end of the pressure-rod being fitted with a thread for that purpose.

By this means I am able to regulate the amount of pressure exerted by the pressure-rod by lowering or raising this screw-cap. The cap is held in place when properly adjusted by a nut fitting the thread of the pressure-rod below the cap. The stamping-bar is thrown back, after each impact of the die on the counter, by a spring-wire coil attached to it at *a*. At K K are the boxes holding the stamping-bar in place.

These boxes are made with movable tops, which can be taken off, and the stamping-bar removed by lifting it out, whenever necessary, for the purpose of adjusting the die or replacing it with another.

By means of this attachment I am enabled

to stamp envelopes of any size by changing the counter and die, and adapting them to the desired size of envelope.

I claim as my invention—

The combination, in an attachment to an envelope-folding machine, of the pressure-rod *r*, the bent lever *l m*, and the stamping-bar *b*,

or their equivalents, arranged and acting substantially as above described, and for the purpose set forth.

PETER J. SMITH.

Witnesses:

JNO. D. AHRENS,

JULIUS R. POMEROY.