

(No Model.)

W. L. ZIMMER.
LABEL CUTTING AND PACKING MACHINE.

No. 494,616.

Patented Apr. 4, 1893.

Fig. 1.

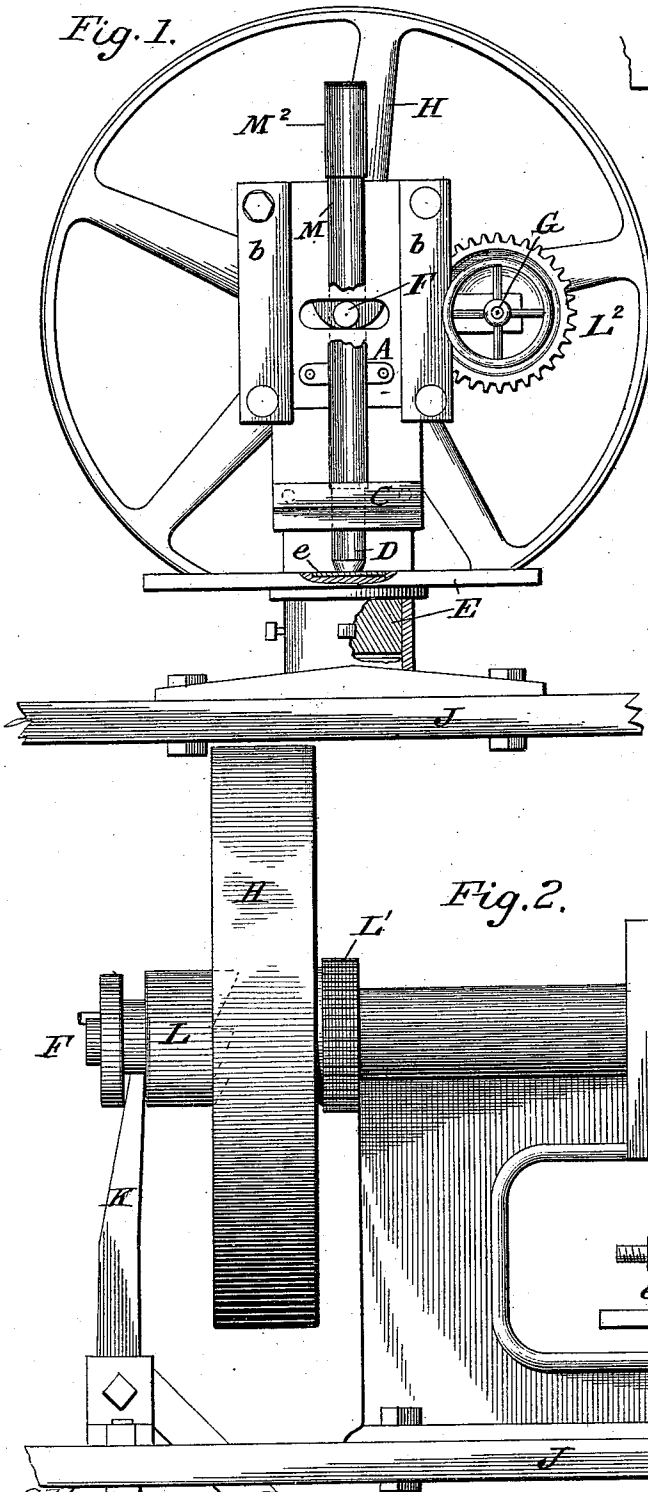


Fig. 3.

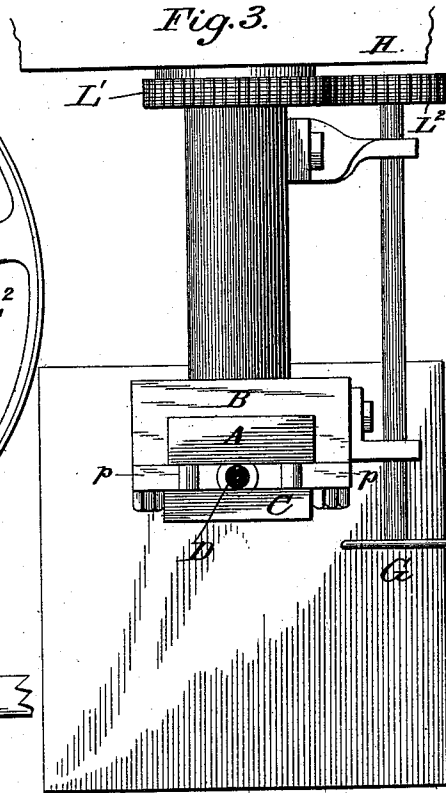
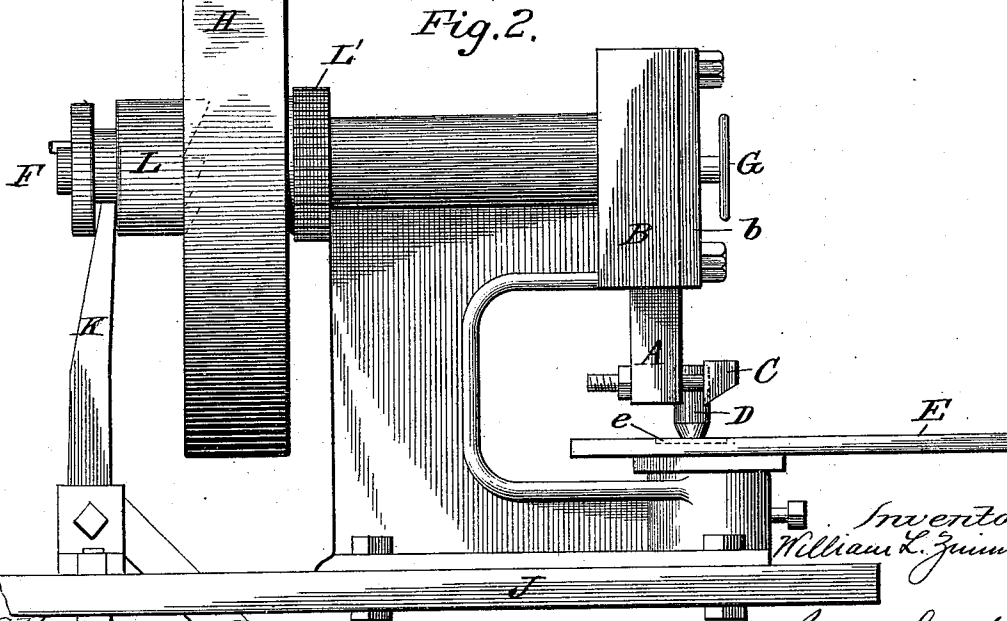


Fig. 2.



Attest
J. M. Fowler Jr.
T. Combe.

Inventor:
William L. Zimmer,
By Annie Goldsborough,
Attys.

UNITED STATES PATENT OFFICE.

WILLIAM LOUIS ZIMMER, OF PETERSBURG, VIRGINIA.

LABEL CUTTING AND PACKING MACHINE.

SPECIFICATION forming part of Letters Patent No. 494,616, dated April 4, 1893.

Application filed July 15, 1891. Serial No. 399,669. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM LOUIS ZIMMER, a citizen of the United States, residing at Petersburg, in the State of Virginia, have invented a new and useful Label Cutting and Packing Machine, of which the following is a specification.

My invention relates to improvements in label cutting machines run by power, in which a descending plunger carries a hollow die through a mass of paper, and the objects of my improvements are: First, to cut clearly and smoothly the labels and deliver them by upward pressure through a tube or conveyer, which may be removed when filled, or by a spout or sluice from the tube into a receptacle. Second, to regulate the position of the plunger and die, between strokes, at the will of the operator. I attain these objects by the mechanism illustrated in the accompanying drawings, in which

Figure 1 is a front elevation of the machine. Fig. 2 is a side elevation of the same when the clutch L has engaged the pulley H. Fig. 3 is a plan view of the frame and principal cutting parts.

Similar letters refer to similar parts throughout the several views.

The wooden table J, the adjustable iron feeding table E with recess *e* for cutting pad, and the iron frame B^b constitute the framework of the machine. The shaft F, actuated by a pulley H and provided with a spring clutch L and a treadle throw lever K, raises and lowers, by an eccentric the plunger A, whose motion is truly vertical behind the bolted guides *b, b*. The pulley H runs upon a loose sleeve and actuates the shaft F only when the slotted clutch L is engaged. The plunger A is provided with a clamp C and bolts to rigidly confine the hollow die D, and both the plunger A and clamp C are slightly recessed with a square shoulder to bind the die D and prevent any slipping.

The conveyer M is composed of a tube fitted to the size of the die in use, provided with wings to be secured by small set screws to the face of the plunger A and cylindrical paper tubes M² fitting on the top of conveyer M into which the paper labels are packed and ready for delivery to the consumer. A fast pinion L' on the shaft F, at the back of the frame B is actuated by another pinion L² on the hand rod G. When the clutch L is not engaged with the pulley H, by pressure on the treadle lever K, the shaft F can be actuated by the rod G so as to raise or lower the plunger A bearing the die D. This enables the operator to set an engraved or printed label on the cutting pad exactly under the die at any moment.

I prefer the feed table E to be adjustable to compensate for the wear of dies, which may become shorter and necessitate the raising of the table.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination with a reciprocating plunger, and a die, of an adjustable clamp recessed to give horizontal and vertical pressure on said die, and an adjustable feeding table provided with a pad of thick leather or other material that will not injure the cutting edge of the die.

2. The combination with the plunger, and the die projecting laterally therefrom, of a conveyer tube fitted to the top of the die and attached to the face of the plunger, substantially as described.

3. The combination with the plunger, and the die, of a conveyer tube fitted to the top of the die, and a removable packing tube forming a continuation of the conveyer tube, substantially as described.

WILLIAM LOUIS ZIMMER.

Witnesses:

FREDERICK P. LEAVENWORTH,
SAML. BURWELL.