

(No Model.)

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

No. 494,616.

Patented Apr. 4, 1893.

Fig. 1.

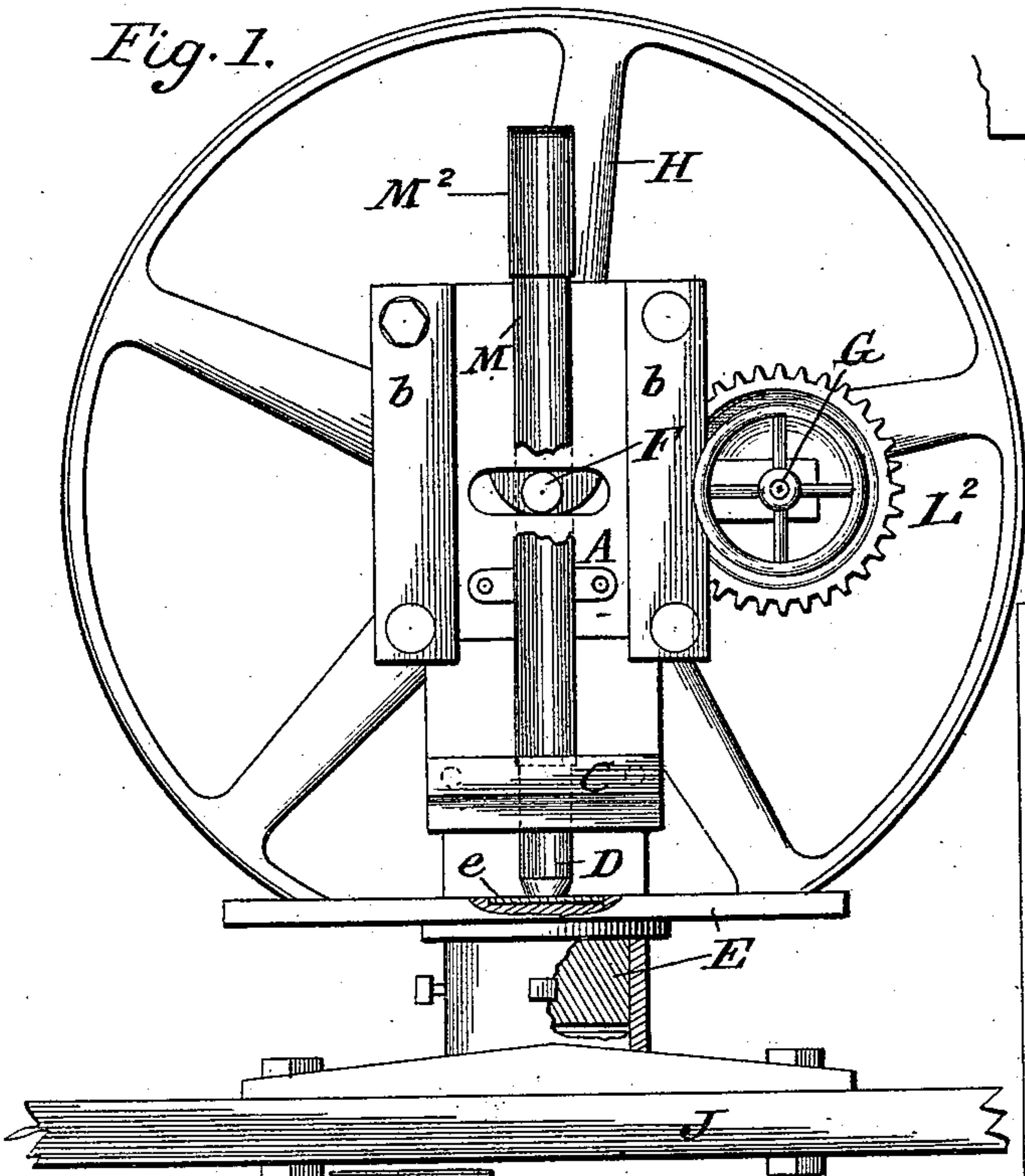


Fig. 3.

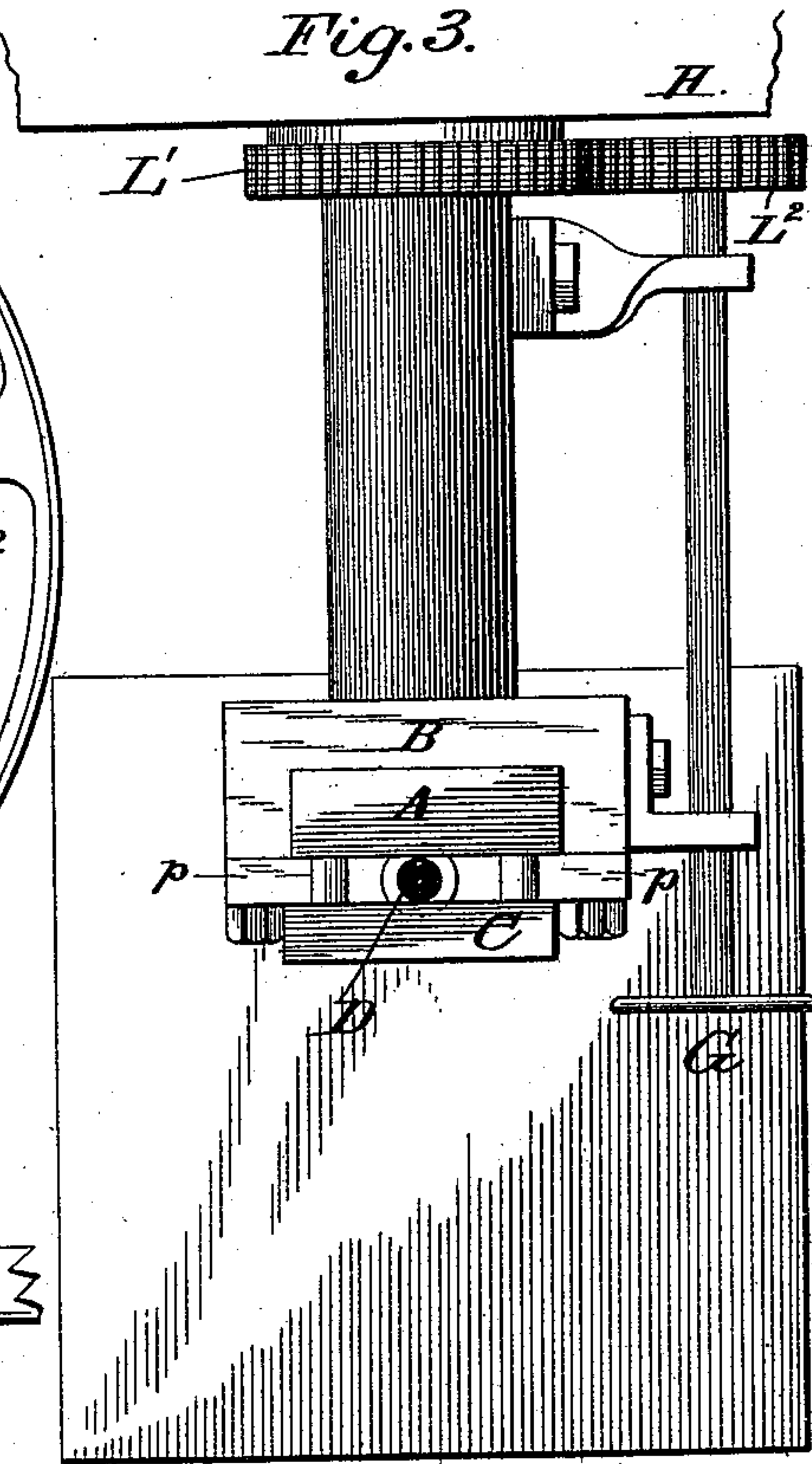
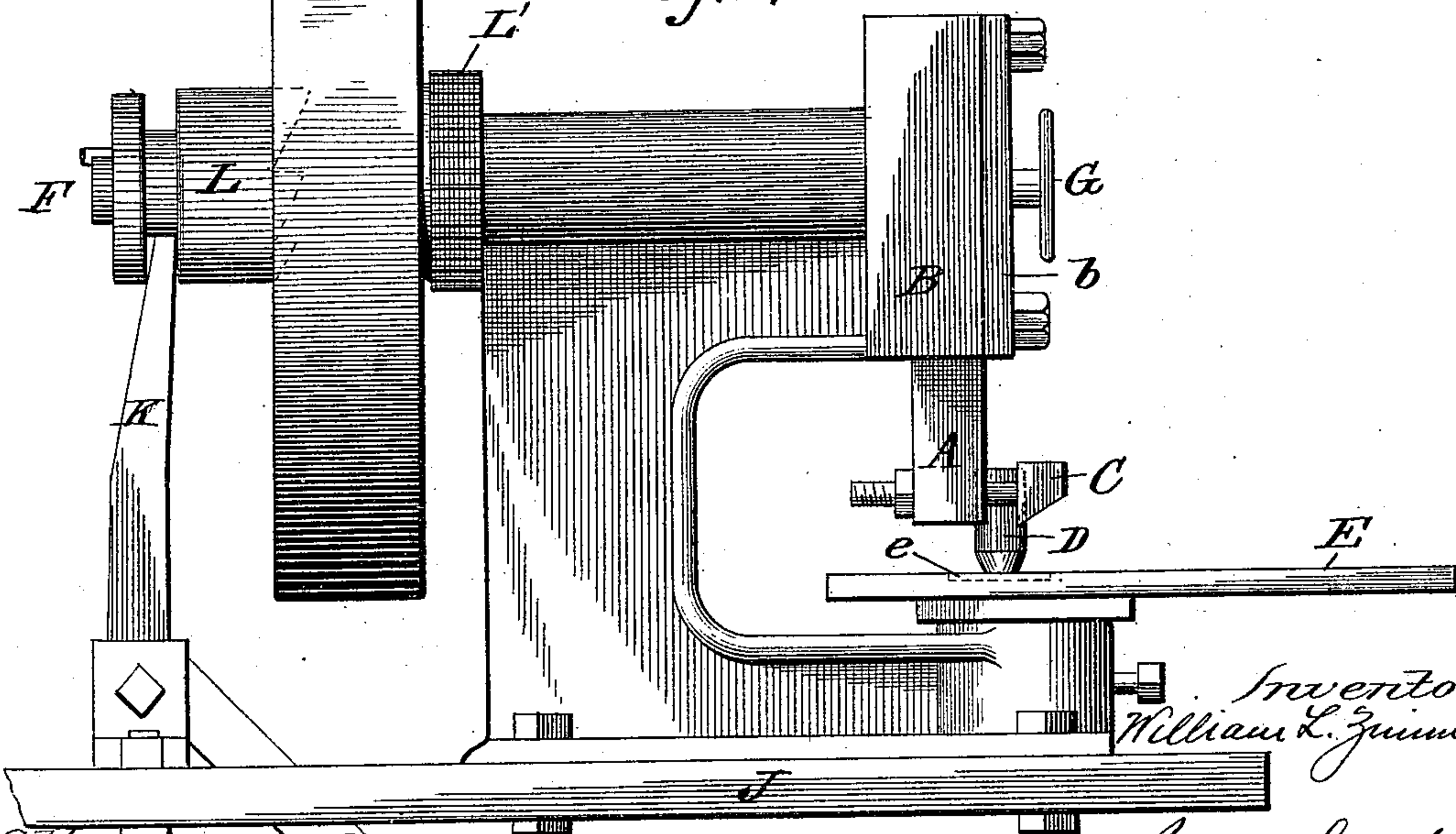


Fig. 2.



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# 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<sup>b</sup> 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 M<sup>2</sup> 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 L<sup>2</sup> 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.