2 Sheets—Sheet 1.

C. KNOCH & S. L. SALOMON.

LABELING MACHINE.

No. 189,234. Patented April 3, 1877.

Fig. 1.

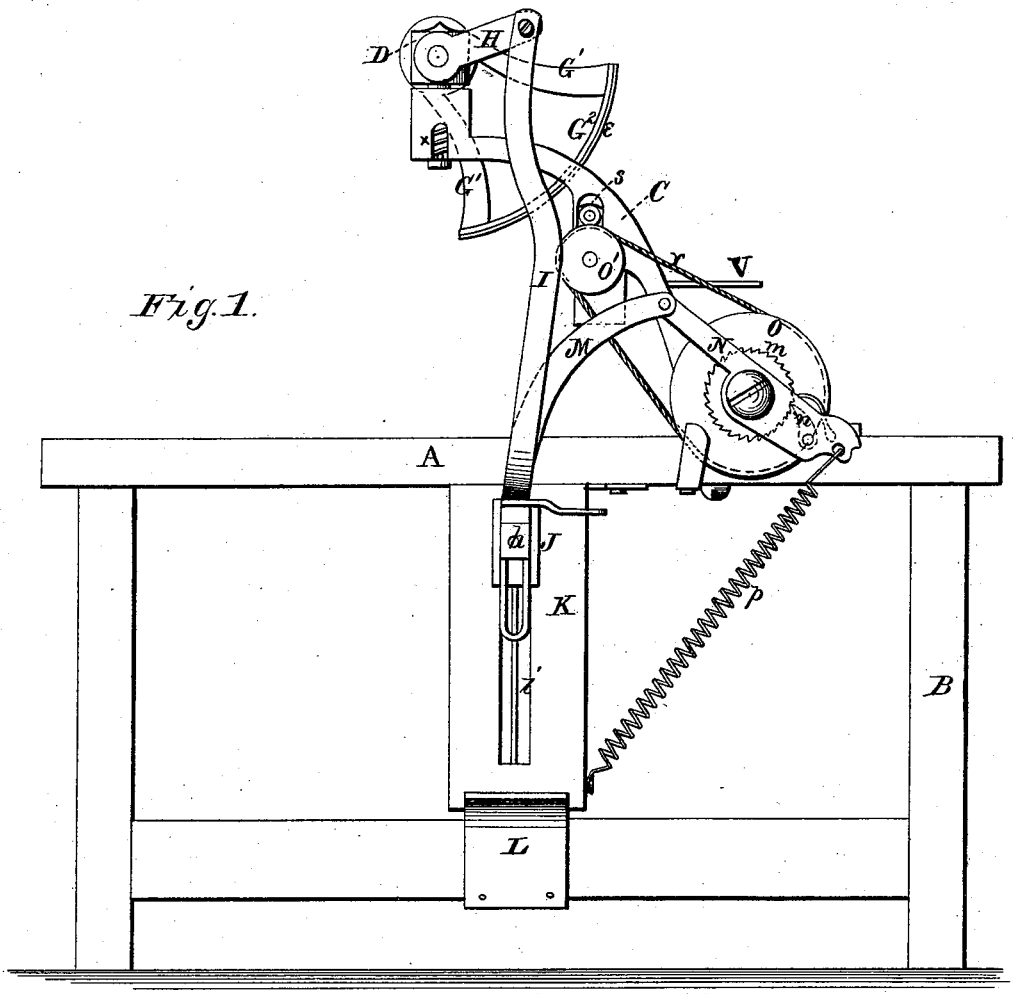
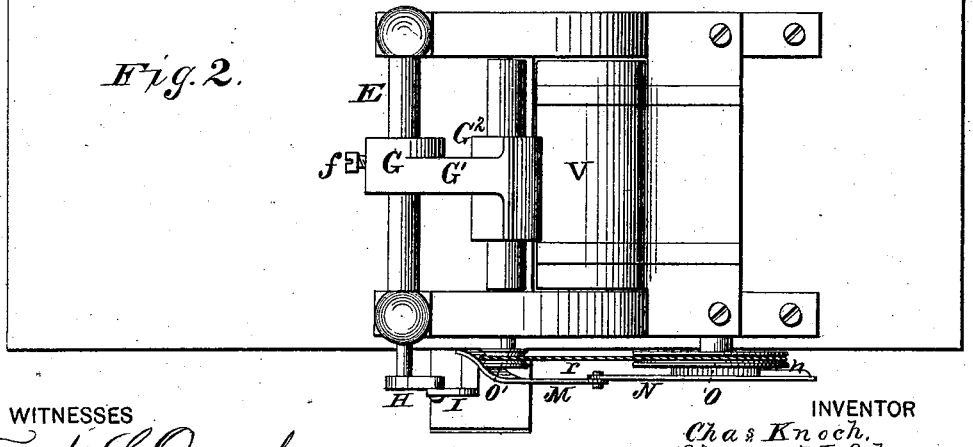


Fig. 2.



WITNESSES

Franck L. Durand

C. L. Evert

INVENTOR

Chas Knoch.
Siegmund L. Salomon

Alexander Mason

ATTORNEYS

2 Sheets—Sheet 2.

C. KNOCH & S. L. SALOMON.

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Fig. 3

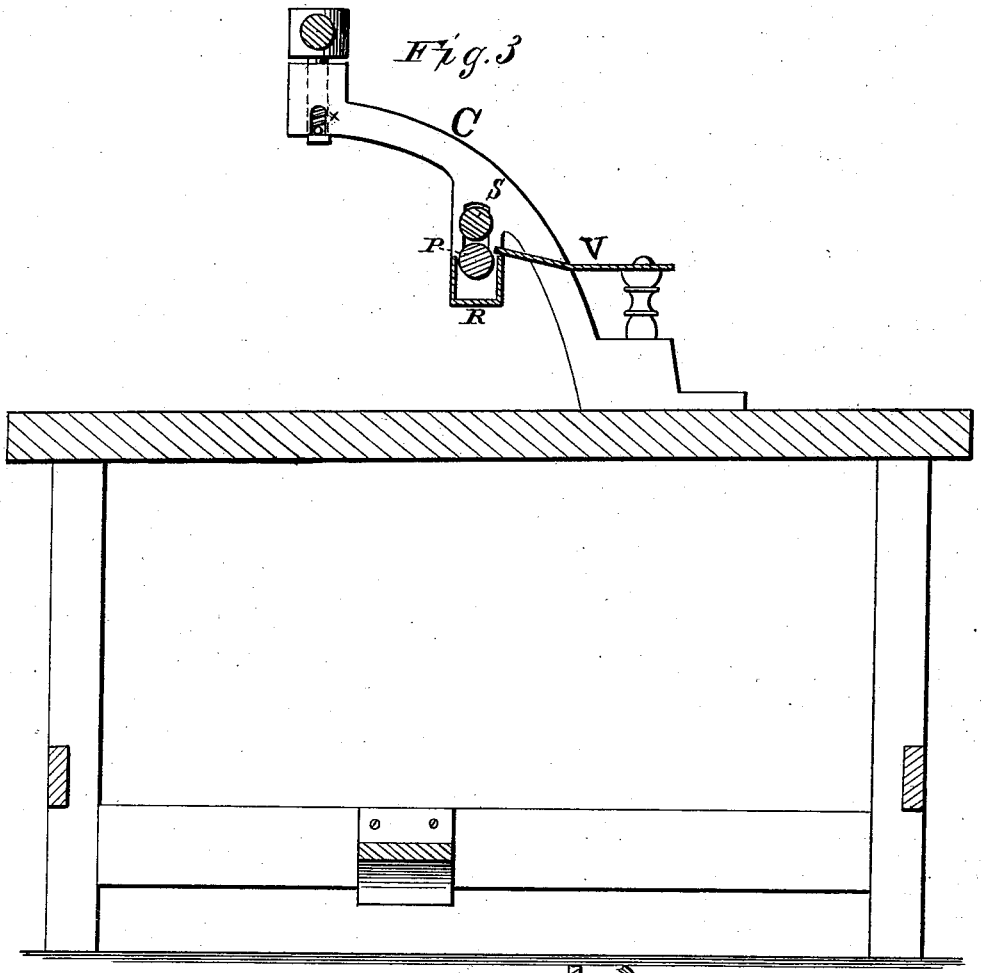


Fig. 4.

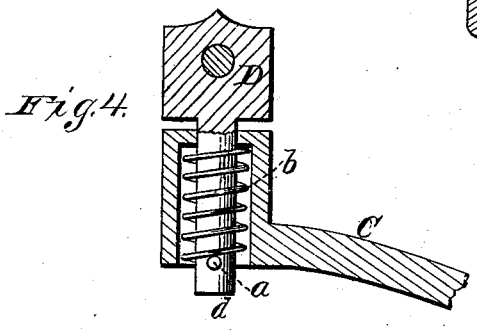
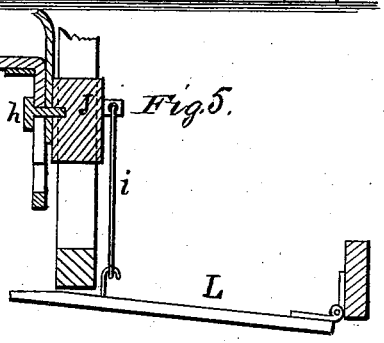


Fig. 5.



WITNESSES

Franck L. Durand

L. L. Ernst.

INVENTOR

Chas Knoch

Siegmund L. Salomon

Alexander Mason

ATTORNEYS

UNITED STATES PATENT OFFICE

CHARLES KNOCH AND SIEGMUND L. SALOMON, OF NEW YORK, N. Y.

IMPROVEMENT IN LABELING-MACHINES.

Specification forming part of Letters Patent No. **189,234**, dated April 3, 1877; application filed September 23, 1876.

To all whom it may concern:

Be it known that we, CHARLES KNOCH and SIEGMUND L. SALOMON, of New York, in the county of New York, and in the State of New York, have invented certain new and useful Improvements in Bottle-Labeling Machines; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of our invention consists in the construction and arrangement of a machine for labeling bottles, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which our invention appertains to make and use the same, we will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a side elevation of our machine. Fig. 2 is a plan view, and Fig. 3 a longitudinal section, of the same. Figs. 4 and 5 are views of detached parts thereof.

A represents a table of any suitable dimensions, supported upon ordinary legs or a framework, B.

On top of the table A are fastened two standards, C C, which are curved substantially as shown, so that, while their lower ends are fastened to the table near one end, their upper ends will be about over the center of the table. On the upper end of each standard C is a box or bearing, D, having a stem, *d*, projecting downward through said end of the standard, and around this stem, within the standard, is placed a spiral spring, *b*, held on the stem by a pin, *a*, passing through the lower end thereof. The standard is slotted, as shown at *x*, for the ends of this pin *a* to pass upward when the box D is raised.

In the boxes or bearings D D is placed a shaft, E, and upon this shaft is placed a hub, G, having two curved arms, G^1 G^1, to the outer ends of which is secured a segmental plate, G^2, lined on its outer or convex side with cloth or other suitable lining *e*. This forms the device which is to press the label on the glass bottle, and which can be adjusted to any point upon the shaft E, and fastened by means of a set-screw, *f*.

On the front end of the shaft E is a crank, H, to which is connected a bar, I, hanging downward, and its lower end slotted and held by a headed pin or stud, *h*, (passing through the slot,) to a cross-head, J, which is movable vertically up and down in a slotted guide, K, attached at the front of the table and below the same. The sliding cross-head J is, by a rod, *i*, connected with a hinged treadle, L, as shown.

To this cross-head is further attached an arm, M, which connects with one end of a lever, N, pivoted on a stud, *k*, projecting from the lower end of the standard on that side and on this stud is further placed a pulley, O, having a ratchet-wheel, *m*, on its outer side.

On the lever N is pivoted a spring-pawl, *n*, to take into said ratchet-wheel, and at the same end of the lever is attached a spring, *p*, to pull the same downward.

The pulley O is, by a cord, *r*, connected with a pulley, O′, on one journal of a roller, P, which is mounted in suitable bearings, and rotates within a paste-box, R. Above the paste-roller P is a pressure-roller, S, held down on the same by means of springs *s* on top of its journals.

V is a table or apron arranged between the standards C C, and upon which the labels are laid.

After the labels are placed on the table V the operator pushes the top label forward between the rollers P and S. At the same time he presses down on the treadle L, causing the cross-head J to move downward, and, by means of the arm, lever, pawl, and ratchet, rotate the pulley O, and this communicates motion to the paste-roller P, so that the label will be fed forward and supplied with paste on its under side. During the commencement of this movement the presser-plate G^2 remains stationary until the pin or stud *h* has descended to the bottom of the slot in the arm I, when, by the continued downward movement of the cross-head, the shaft E is rotated in its bearings, bringing the padded presser-plate G^2 down, so as to press the label onto the

bottle. As soon as the label has been thus placed on the bottle, by one downward movement of the treadle the pressure on the treadle is released, when the spring *p* will bring all the parts back to their original position.

The presser-plate G^2 regulates itself to the size of the bottle by means of the springs *b b* around the stems of the boxes D D.

In the table A we propose to arrange two transverse rollers, on which the bottle will be placed and move; or we may use rubber strips on the table to support the bottle, which would prevent the bottle from breaking if the pressure of the plate G^2 should be too strong.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In a machine for labeling bottles, the padded segmental presser-plate G^2, adjustably attached to the rocking and yielding shaft E, for the purposes herein set forth.

2. The combination of the standards C C, boxes or bearings D D, with stems *d d*, the springs *b b* surrounding said stems, the hub G, with set-screw *f* and arms G^1, and the padded presser-plate G^2, all substantially as and for the purposes herein set forth.

3. The combination of the rocking and yielding shaft E, carrying the adjustable presser-plate G^2, the crank H, arm I, slotted at its lower end, stud *h*, cross-head J, rod *i*, and treadle L, substantially as and for the purposes herein set forth.

4. The combination of the pressure-roller S, paste-box R, paste-roller P, with pulley O′, cord *r*, pulley O, with ratchet *m*, and the lever N, provided with the pawl *n*, and operated by means of the treadle and spring, all as and for the purposes herein set forth.

In testimony that we claim the foregoing we have hereunto set our hand this 16th day of September, 1876.

CHARLES KNOCH.
SIEGMUND L. SALOMON.

Witnesses:
WESLEY GLEASON,
DAVID KEY.