

T. Barrett,
Making Glass Bottles.
179,434. Patented June 30, 1868.

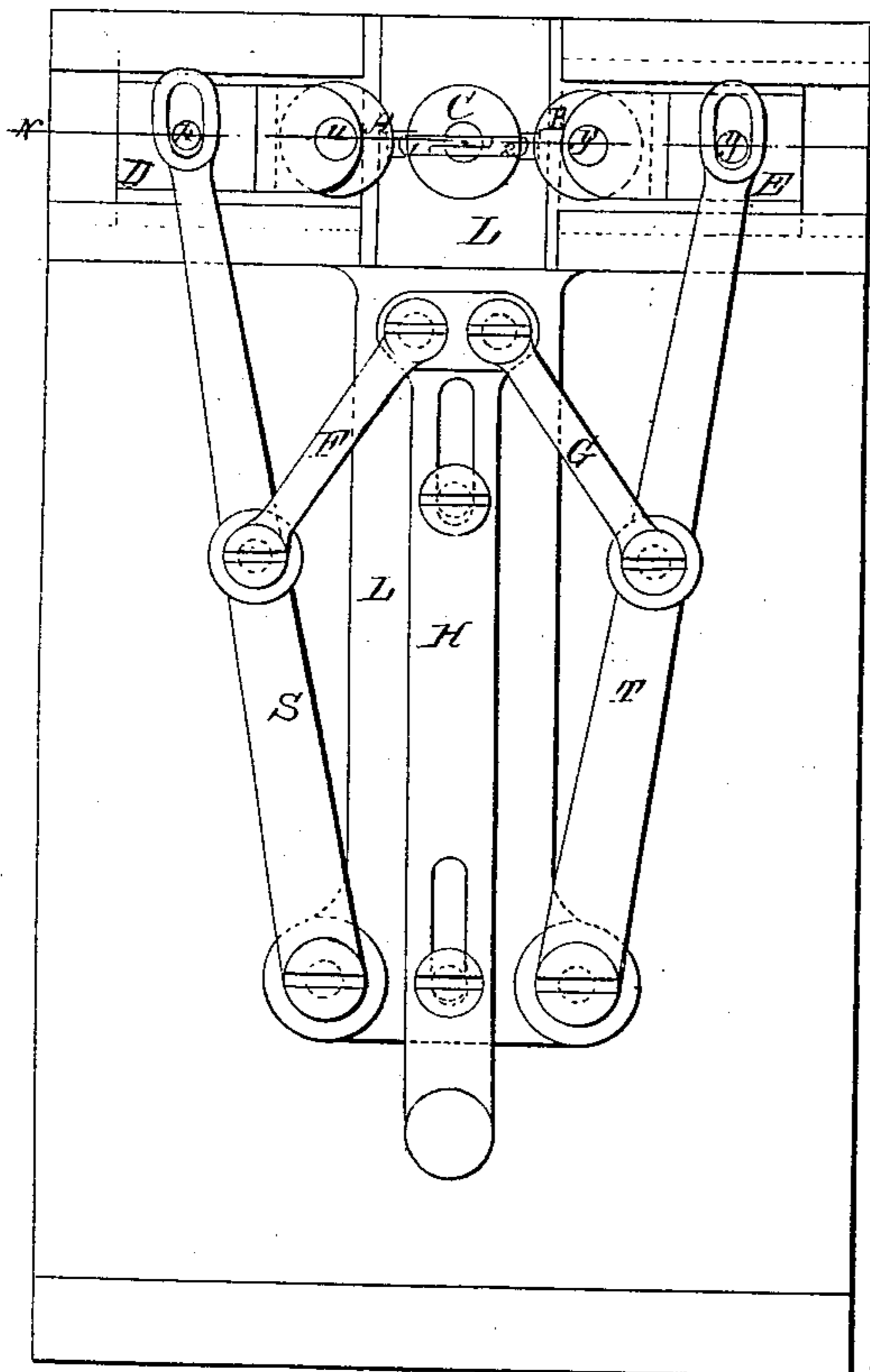


Fig. 1.

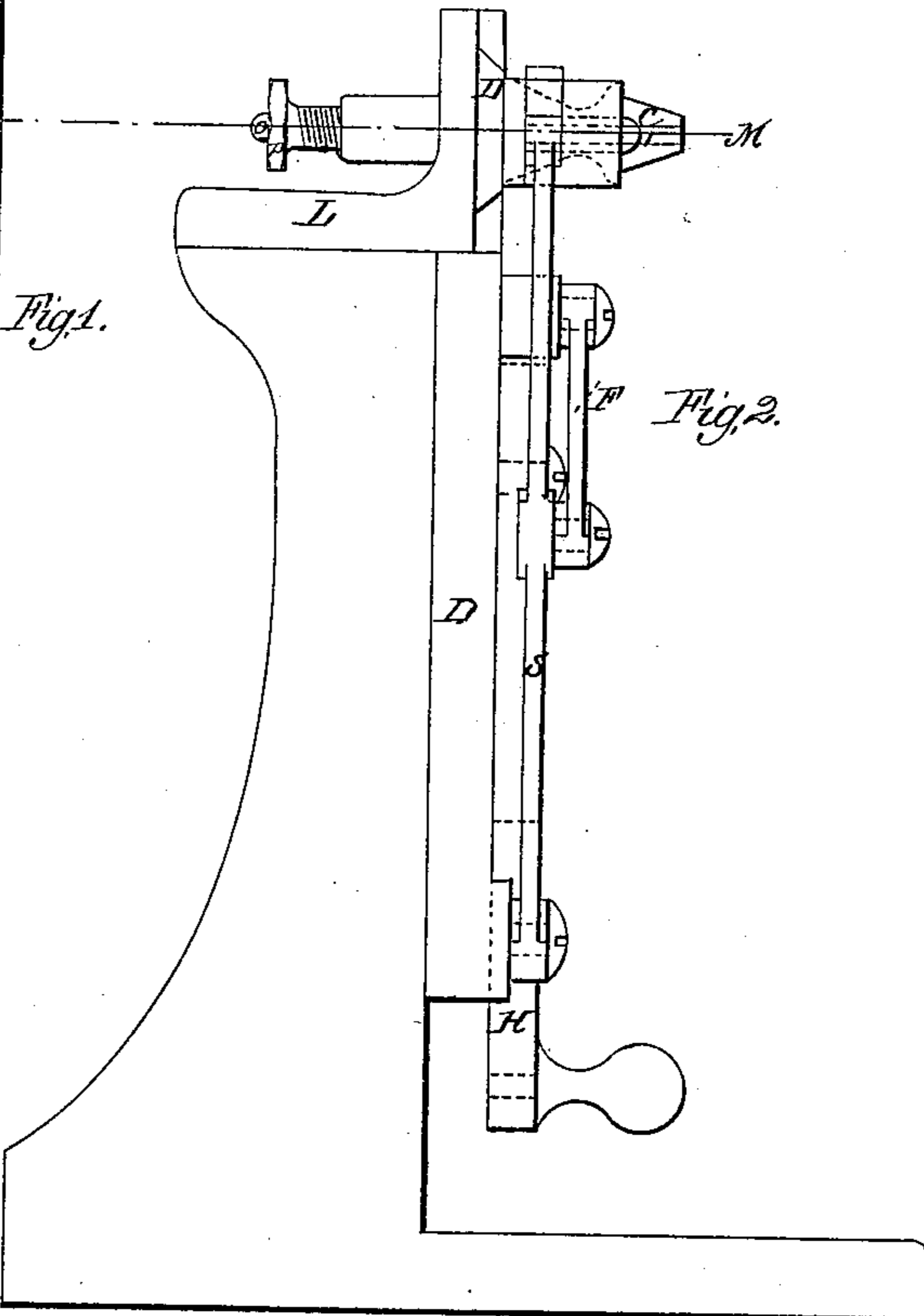


Fig. 2.

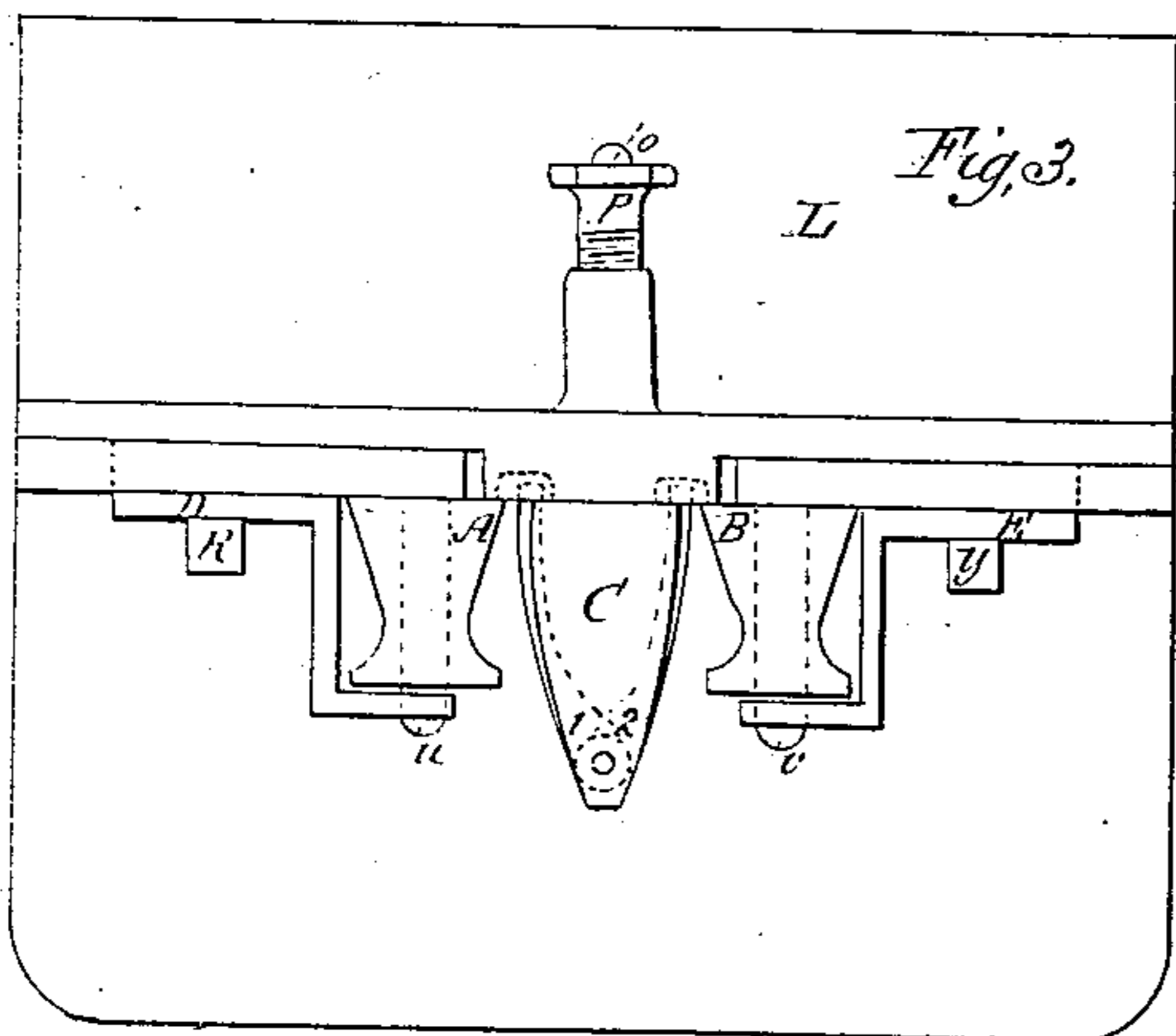


Fig. 3.

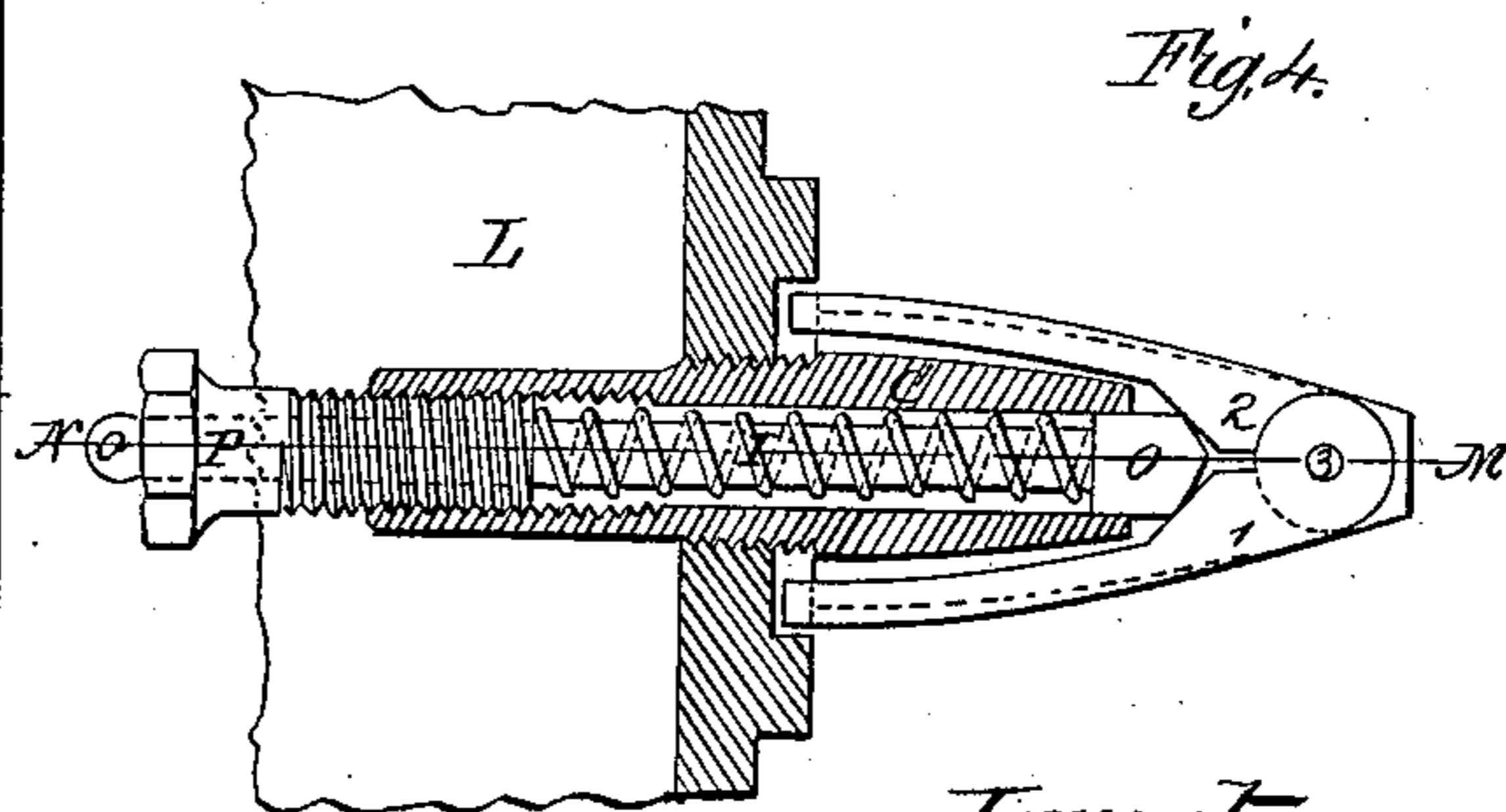


Fig. 4.

Witnesses.

J. B. Leland.

Chas. L. Duntou.

Inventor.

Thomas Barrett.

United States Patent Office.

THOMAS BARRETT, OF CHARLESTOWN, MASSACHUSETTS.

Letters Patent No. 79,434, dated June 30, 1868.

IMPROVED MACHINE FOR FORMING RINGS ON CARBOYS AND BOTTLES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, THOMAS BARRETT, of Charlestown, in the county of Middlesex, and State of Massachusetts, have invented a new and useful Machine for Forming Rings on Carboys and Bottles; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, in which—

Figure 1 is a front elevation,

Figure 2 a side elevation,

Figure 3 a plan view, with levers S and T removed, and

Figure 4 an enlarged section of plug C on line N and M.

In fig. 1, L is the frame; A and B are rolls, which rotate on pins U and V, fixed in stands D and E, which slide in frame L, as shown. C is a hollow conical plug or centre, in which are placed two movable fingers, 1 and 2. H is a sliding bar, having a vertical motion, and to which are attached links F and G, connected to levers S and T, for communicating a simultaneous motion to stands D and E toward or from plug C.

In fig. 2, P is a hollow screw, inserted in plug C. O is a rod, passing through P into plug C. The other letters refer to parts already described in fig. 1.

Fig. 3 shows a plan view of the rolls A and B and the plug C; the levers S and T are omitted. R and Y are studs, to which the levers are attached, and by which the stands D and E are moved. The other letters refer to parts already described.

Fig. 4 exhibits an enlarged section of hollow plug C and a portion of frame L, on line N M.

1 and 2 are fingers, jointed on pin 3, having inclined planes near to the joint, as shown. The ends of the fingers extend into cavities in the frame L. O is a rod, passing through hollow screw P. The end of O is made conical where it comes in contact with the inclined edges of the fingers, and is increased in size, to fill the hole in C. I is a spiral spring, encircling rod O, abutting against screw P at one end, at the other against the shoulder on rod O. The purpose of the spring is to keep the fingers 1 and 2 extended. P is a hollow screw, fitting into the prolonged portion of plug C, for confining in its place and increasing or decreasing the force of spring I, and by which an automatic motion is given to the fingers 1 and 2.

When this machine is operated, the carboy or bottle is passed over the conical plug C, and held in contact with the face of frame L. The expanding fingers 1 and 2 will fill the hole, preserve its shape, and keep the carboy or bottle central. The carboy or bottle is now rotated on C, while melted glass is placed thereon. When sufficient has been applied, the rolls A and B are brought in contact with the revolving carboy or bottle by operating H, the links F and G, and levers S and T, and held there until the proper form is produced.

As new and useful in this machine, I claim—

1. The rolls, of any desired shape, having a simultaneous motion toward a central plug, whether operated by the mechanism herein described, or any other substantially the same, for shaping or forming the rings of carboys or bottles.

2. I claim the expansive plug C, constructed and operating substantially in the manner and for the purpose herein specified.

THOMAS BARRETT.

Witnesses:

CHARLES D. DUNTON,

J. B. KENDALL.