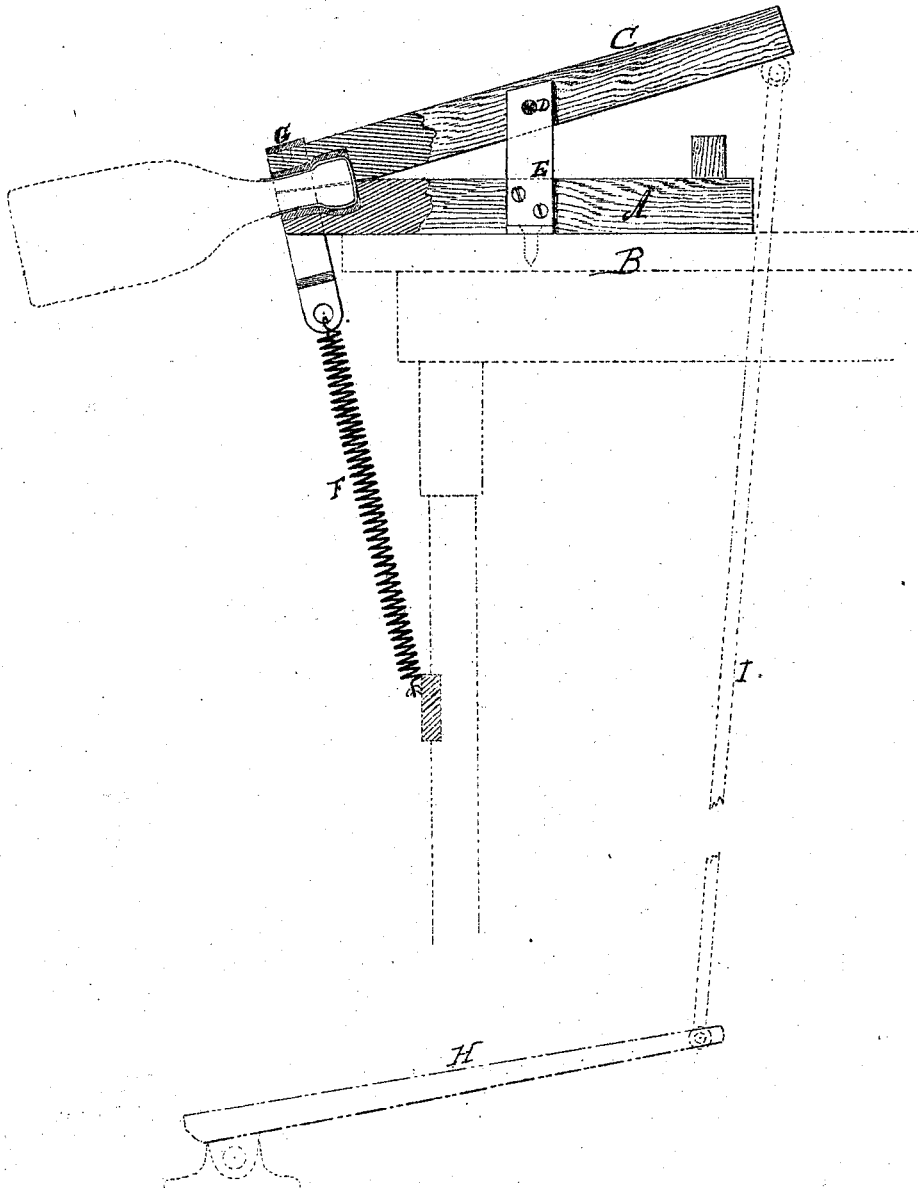


W. H. SPERLING.

Improvement in Bottle Capping Machines.

No. 116,107.

Patented June 20, 1871.



Witnesses:

Gustave Dietrich
Alex. T. Roberts

Inventor:

W. H. Sperling
PER *Mumford*
Attorneys.

UNITED STATES PATENT OFFICE.

WILLIAM H. SPERLING, OF WASHINGTON, NEW JERSEY.

IMPROVEMENT IN BOTTLE-CAPPING MACHINES.

Specification forming part of Letters Patent No. 116,107, dated June 20, 1871.

To all whom it may concern:

Be it known that I, WILLIAM H. SPERLING, of Washington, in the county of Middlesex and State of New Jersey, have invented a new and useful Improvement in Bottle-Capping Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

This invention consists in a machine for capping the mouths of bottles with tin-foil or similar material, constructed and operating as hereinafter described.

The accompanying drawing represents a side elevation of the machine, partly in section, the table upon which it is placed and the treadle by which the jaws are opened being shown in dotted lines.

Similar letters of reference indicate corresponding parts.

A is the fixed jaw on the teeth or bench B, in the end of which is a semicircular cavity made to fit one-half of the circumference of the neck of the bottle. If the neck of the bottle has grooves or beads thereon the cavity in the jaw is made to correspond therewith. C is the lever, forming a movable jaw, which is worked upon the fulcrum D on stands E on each side of the jaw A. In its end is a semicircular cavity, the same as that in the jaw A. The

two cavities form a circle corresponding in size and form with the neck or nozzle of the bottle, as seen in the drawing, where the outline of the bottle is represented by dotted lines. F is a spring, the lower end of which is attached to some fixture, as the floor or the table, and the upper end to the band G, which is attached to and operates on the upper jaw C.

In capping the bottle the foil cap is placed on the bottle, covering its mouth and extending down onto the neck, as seen in the drawing. The pressure of the spring G is sufficient to compress the cap to the neck or nozzle, making it conform to the exact shape thereof in the shortest space of time. The jaw C is raised, so as to admit and release the bottle, by means of a foot-treadle, H, and connection I, as represented. In this manner the foil caps may be made to conform to the exact shape of the neck of the bottle in a most perfect and expeditious manner.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The arrangement and combination of the jaws A and C with a spring and treadle, when the former are made to operate substantially as and for the purpose described.

WM. H. SPERLING.

Witnesses:

ANDW. AGNEW,
H. M. PRICE.