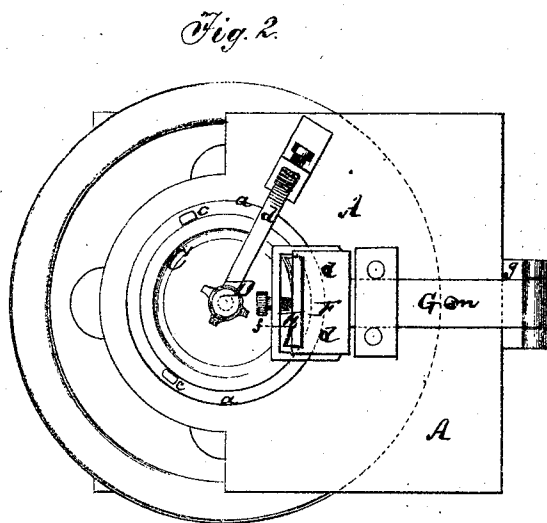
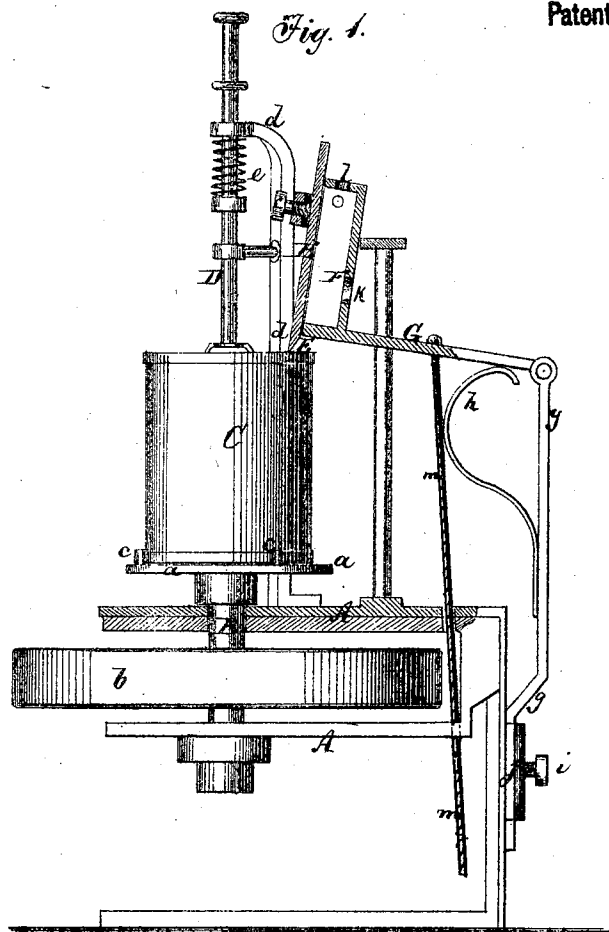


JACOB GULDEN.
Improvement in Soldering Apparatus.

117,770.

Patented August 8, 1871.



Witnesses:
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UNITED STATES PATENT OFFICE.

JACOB GULDEN, OF KEY PORT, NEW JERSEY.

IMPROVEMENT IN SOLDERING APPARATUS.

Specification forming part of Letters Patent No. 117,770, dated August 8, 1871.

To all whom it may concern:

Be it known that I, JACOB GULDEN, of Key Port, in the county of Monmouth and State of New Jersey, have invented a new and Improved Soldering Apparatus; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others to make and use the same, reference being had to the accompanying drawing forming part of this specification.

Figure 1 represents a side view, partly in section, of my improved soldering apparatus. Fig. 2 is a plan or top view of the same.

Similar letters of reference indicate corresponding parts.

The object of this invention is to produce a compact and simple machine for closing or capping tin cans. My invention consists in a soldering apparatus improved as hereinafter fully described and subsequently pointed out in the claim.

A in the drawing represents the stationary frame of my new soldering apparatus. In it are the bearings of a vertical shaft, B, which carries at its upper end a disk, *a*, and under the same a hand-wheel, pulley, or handle, *b*, whereby it can be revolved. The can C to be soldered is placed upon the disk *a* and centered thereon by projecting lugs *c c*. A presser-foot, D, sliding in an arm, *d*, of the frame A, is, by a spring, *e*, held down upon the center of the covering-plate or cap of the can C. The can is thus held in place, and is revolved whenever the shaft B is turned, as stated. E is the soldering-iron. It is fastened to the face of a box or case, F, sliding into the grooved sides

thereof like a lid, and held in place by a clamping-screw or key, *f*. The box or case F is secured to the end of a bar, G, which is, at its other end, hinged to an upright standard *g*. A spring, *h*, bears against the under side of the bar G so as to raise it and hold the soldering-iron clear of the can C. The post or standard *g* is secured by a screw, *i*, in a loop or eye, *j*, of the frame A, and can thus be vertically adjusted to fit the iron E to higher or lower cans. The bar G may be made extensible, to bring the iron a suitable distance from the center of the can. A gas-pipe is carried into the lower part of the box F through an aperture, *k*, therein, and the gas ignited within said box, the products of combustion escaping through upper apertures *l*. By the heat of the burning gas the soldering-iron is heated. Whenever, by a cord, *m*, and treadle, or otherwise, the bar G is swung down to carry the point of the soldering-iron upon the revolving can and solder is applied to the latter, the desired process is carried on rapidly and in workmanlike manner.

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

The combination of the box F and hinged bar G with the spring *h* and adjustable standard *g*, all arranged to operate substantially as herein specified and described.

The above specification of my invention signed by me this 8th day of June, 1871.

JACOB GULDEN.

Witnesses:

GEO. W. MABEE,
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