(Model.)

# D. KLUMP.

## Machine for Revolving Cans in Solder.

**No. 241,379.** **Patented May 10, 1881.**

*Fig. 1.*

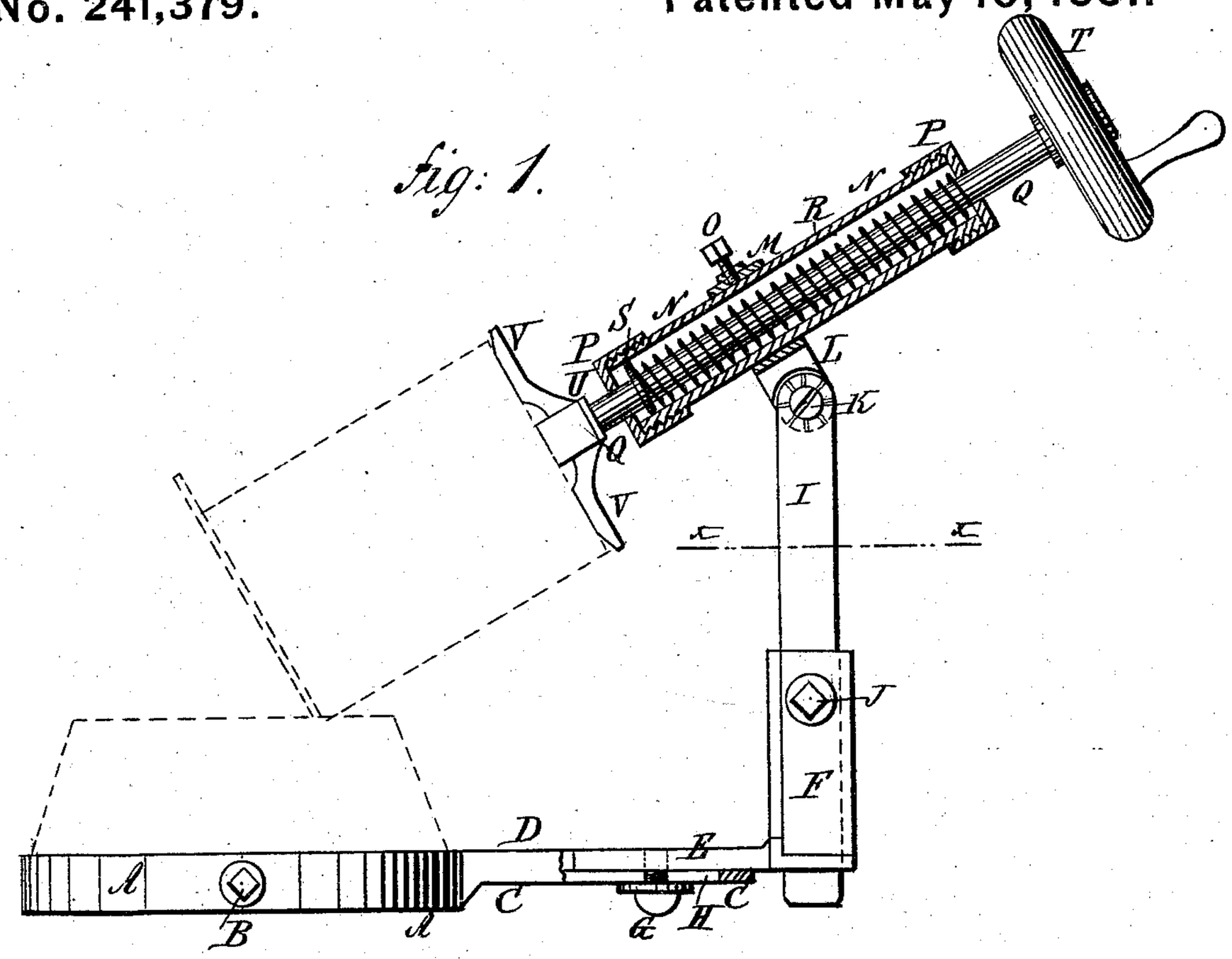



*Fig. 2.*

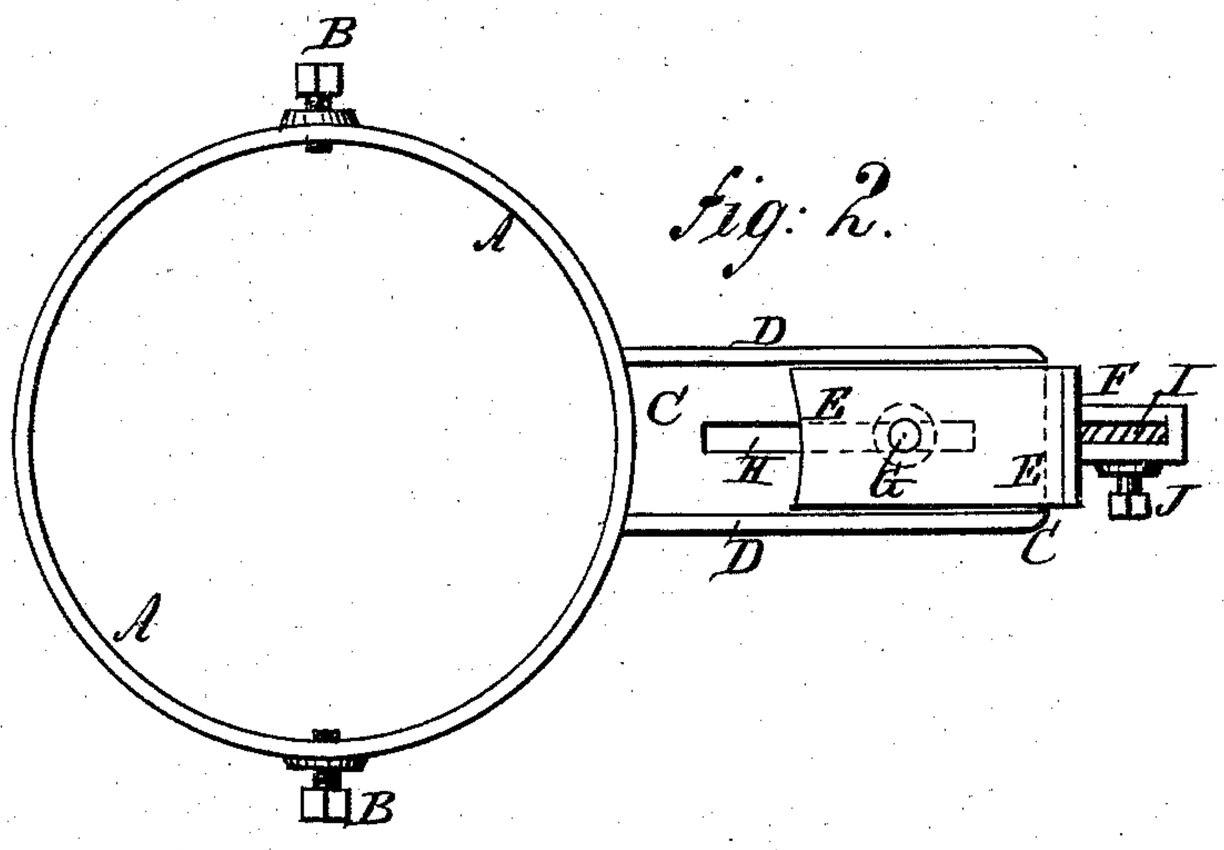
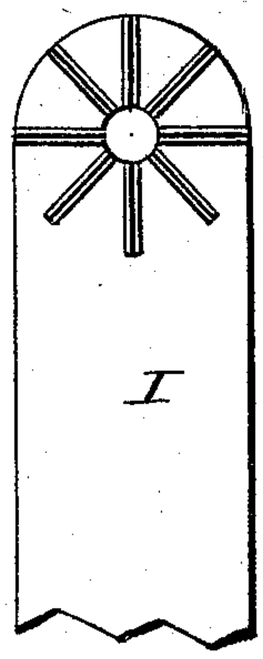



*Fig. 3.*

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# UNITED STATES PATENT OFFICE.

DAVID KLUMP, OF MOORESTOWN, NEW JERSEY.

## MACHINE FOR REVOLVING CANS IN SOLDER.

SPECIFICATION forming part of Letters Patent No. 241,379, dated May 10, 1881.

Application filed March 23, 1881. (Model.)

*To all whom it may concern:*

Be it known that I, DAVID KLUMP, of Moorestown, in the county of Burlington and State of New Jersey, have invented a new and useful Improvement in Machines for Revolving Cans in Solder, of which the following is a specification.

Figure 1 is a side elevation, partly in section, of my improvement. Fig. 2 is a sectional plan view of the same, taken through the line *x x*, Fig. 1. Fig. 3 is a side elevation of the upper part of the standard.

Similar letters of reference indicate corresponding parts.

The object of this invention is to facilitate the revolving of cans on soldering-machines.

The invention consists in constructing a machine for revolving cans in solder, with a ring provided with set-screws for securing it to a fire-pot, and also provided with a slotted arm having the base-plate of a perforated upright secured to it adjustably by a set-screw, a standard secured adjustably in the perforated upright by a set-screw, and having an adjustable collar clamped to its upper end, and a cylinder secured in the said collar and carrying a rotary shaft having arms attached to its forward end, and held forward by a spiral spring, whereby the can will be revolved by rotating the said shaft, and the machine can be adjusted to different-sized cans, as will be hereinafter fully described.

The improvement is designed to be used upon Merriam and Smith's floating-machine, or any other soldering-machine in which the edge of a can is revolved in solder.

In the accompanying drawings, A represents a ring, which is designed to be placed around the fire-pot of the soldering-machine, and which is secured in place by set-screws B, passing through the said ring A, and resting against the said fire-pot.

Upon one side of the ring A is formed an arm, C, which has upwardly-projecting flanges D upon its side edges, to serve as guides to, and form a seat for, the base-plate E of the upright F. The upright F is secured in place by a screw, G, which passes through a longitudinal slot, H, in the arm C, and into the base-plate E, so that the position of the upright F can be adjusted as the height of the can to be soldered may require. The upright F is perforated vertically to receive the standard I, which is secured in place by a set-screw, J. The set-screw J passes in through the side of the upright F, and rests against the side of the standard I, so that the said standard I can be adjusted as the diameter of the cans to be soldered may require.

To the side of the upper end of the standard I is secured, by a clamping-screw, K, a lug, L, formed upon the side of a collar, M. The adjacent sides of the standard I and lug L are corrugated radially, to prevent them from slipping upon each other.

N is a tube or hollow cylinder, which passes through the collar M, and is secured in place by a set-screw, O, which passes through the collars M, and rests against the side of the cylinder N.

Upon the ends of the cylinder N are placed caps P, having central perforations, through which passes a rod or shaft, Q. The shaft Q is held forward by a spiral spring, R, placed upon the said shaft. The forward end of the spring R rests against a shoulder or collar, S, formed upon or attached to the shaft Q, and its rear end rests against the rear cap of the cylinder N.

To the rear end of the shaft Q is attached a crank-wheel, T, by means of which the said shaft Q is rotated. If desired, the crank-wheel T can be replaced by a pulley, and the shaft Q rotated by power.

To the forward end of the shaft Q is attached a hub, U, which is provided with radial arms V. The arms V are curved forward and have the forward sides of their ends flattened, to rest upon the end of the can, so that the can will be turned upon the soldering-machine by the revolution of the shaft Q. The soldering-machine and the can are indicated by dotted lines, as there is nothing new in their construction. The hub U is detachable, so that it can be replaced by another hub having longer or shorter arms, as larger or smaller cans are to be rotated. With this construction the arms V will be pressed against the end of the can with sufficient force to rotate the said can, by the spring R, and by loosening the screw K the cylinder N can be adjusted to cause the arms V to bear squarely against the end of the can.

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

1. A machine for revolving cans in solder, constructed substantially as herein shown and described, consisting of the ring A, having set-screws B and slotted arm C, the adjustable perforated upright F, having base-plate E and set-screw J, the adjustable standard I, the adjustable collar M, the cylinder N, the rotary collared shaft Q, the spring R, and the arms V, whereby cans can be rotated upon a soldering-machine, as set forth.

2. In a machine for revolving cans in solder, the combination, with the slotted arm C of the ring A, of the adjustable base-plate E, carrying the perforated upright F, substantially as herein shown and described, whereby the said upright and its attachments can be adjusted as the height of the can may require, as set forth.

3. In a machine for revolving cans in solder, the combination, with the perforated upright F, connected with the ring A, of the adjustable standard I, whereby the operating parts of the machine can be raised and lowered as the diameter of the cans may require, as set forth.

4. In a machine for revolving cans in solder, the combination, with the standard I and the cylinder N, carrying the shaft Q and spring R, of the adjustable collar M and clamping-screw K, substantially as herein shown and described, whereby the pitch of the cylinder can be adjusted as the pitch of the can may require, as set forth.

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Witnesses:
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