

J. REDHEFFER.

Machines for Holding and Soldering Cans.

No. 136,265.

Patented Feb. 25, 1873.

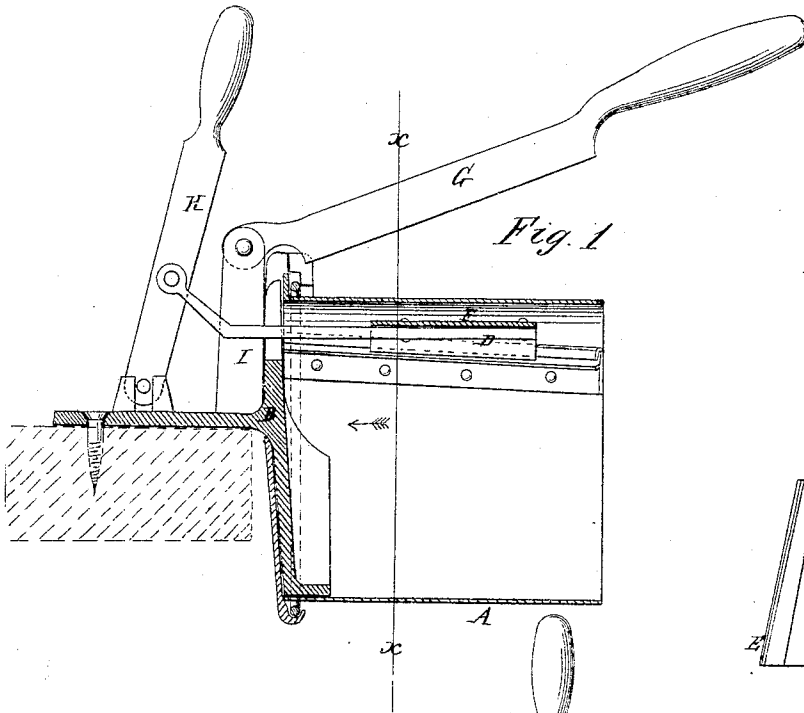


Fig. 1

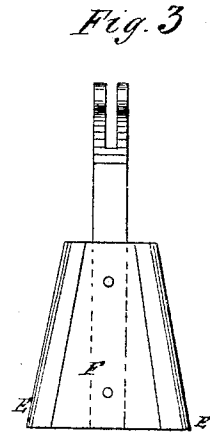


Fig. 3

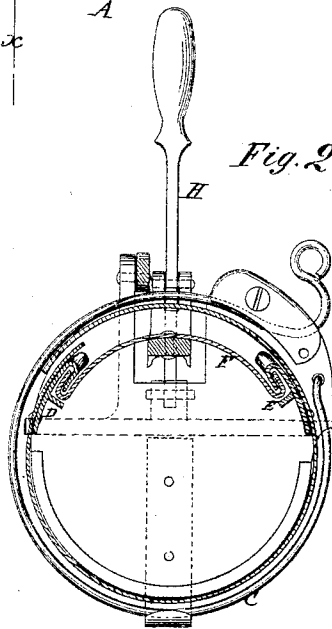


Fig. 2

Witnesses.

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JAMES REDHEFFER, OF KANSAS CITY, MISSOURI.

IMPROVEMENT IN MACHINES FOR HOLDING AND SOLDERING CANS.

Specification forming part of Letters Patent No. **136,265**, dated February 25, 1873.

To all whom it may concern:

Be it known that I, JAMES REDHEFFER, of Kansas City, in the county of Jackson and State of Missouri, have invented a new and useful Improvement in Machines for Soldering Tin-Cans, of which the following is a specification:

The object of this invention is to improve the mode of expanding and contracting the cylinders of a soldering-machine for which Letters Patent of the United States were granted, bearing date October 31, 1871; and it consists in an expanding and contracting plate clasped at each edge to cleats on the cylinder and sliding on the clasp-cleats, as will be hereinafter more fully described.

In the accompanying drawing, Figure 1 represents a vertical section, showing the machine attached to a table, as when ready for soldering or use. Fig. 2 is a cross-section of Fig. 1 taken on the line *xx*. Fig. 3 is a detail, showing a side view of the expanding and contracting plate.

Similar letters of reference indicate corresponding parts.

A is a sheet-iron cylinder confined by the head-plate B of the machine and band C, as seen in Fig. 1, with the side edges unfastened so that it may be expanded or contracted with facility. On the inside of the cylinder are two clasp-cleats, D and E, (seen in Fig. 2,) one cleat, D, being placed near one edge of the cylinder, and the other cleat, E, at some distance from the other edge. F is a plate which is clasped or locked at each of its edges into the cleats, as seen in Fig. 2. It will be seen that this plate is tapering or in the form of a key. The cleats D and E are placed on the cylinder to correspond therewith, so that when the plate is raised the cylinder will be expanded, and when it is lowered it will be con-

tracted, or vice versa, according to the arrangement of the parts.

The can to be soldered is readily slipped onto the cylinder and under the head-band of the machine when the cylinder is contracted, and the top of the can is put on or held in place. When the can has been thus adjusted the plate F is raised, which expands the diameter of the cylinder and the can, and holds the top of the can fast. The press-lever G is now brought down on the outer edge of the can, which presses the parts together ready for soldering. The top is soldered on, and the side joint is soldered, and the can is removed by lowering the plate F, and another can is put in its place. The plate F is operated by means of the lever H connected with the plate by the forked bar I, which latter is riveted to the plate.

Although for the purposes of illustration I have embodied my invention in a complete machine, involving certain features not invented by me, it is to be distinctly understood that I make no claim to anything herein shown and described, except so far as it relates to the double-acting plate F and its immediate adjuncts, in combination with the expanding cylinder.

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

In combination with the cylinder A the clasp or lock cleats D E, and the clasp or locked sliding plate F, arranged to operate as and for the purposes described.

JAMES REDHEFFER.

Witnesses:

JAMES C. MEDSKER,
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