

I. King,

Soldering Machine.

No. 100,775.

Patented Mar. 15. 1870.

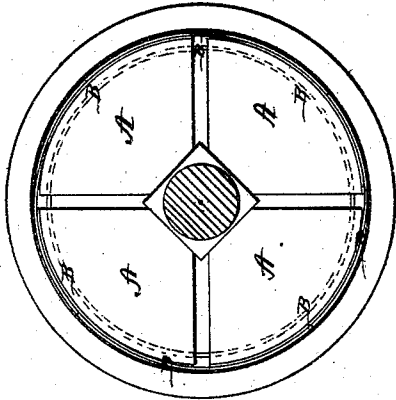


Fig. 2.

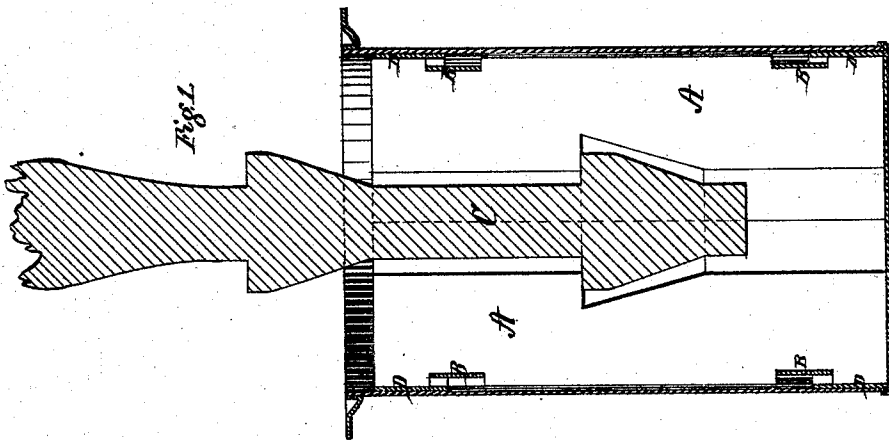


Fig. 1.

Witnesses

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United States Patent Office.

ISAAC KLING, OF SEYMOUR, INDIANA

Letters Patent No. 100,775, dated March 15, 1870.

IMPROVEMENT IN MACHINE FOR MAKING FRUIT-CANS.

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, ISAAC KLING, of Seymour, in the county of Jackson, and State of Indiana, have invented certain new and useful Improvements in Machines for Making Fruit-Cans; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, which form a part of this specification.

The nature of my invention consists in the construction and arrangement of a device for making fruit-cans, or rather, for holding them while soldering.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a vertical section, and

Figure 2 is a plan view of my device, placed within a can.

A A represent sections of a cylinder divided longitudinally and held together by a rubber or elastic band, B, placed at each end in a circular groove around its circumference.

Through the center of the cylinder formed of the sections A A is a hole, through which the plunger C passes. This plunger is provided with two inclined or beveled projections, one near the lower and the other a suitable distance above, as shown in fig. 1. When the plunger C is drawn up, as represented in said figure, the four sections join close together, and the lower one of the beveled projections, above mentioned, fits in recesses made for that purpose in the inner sides of the sections.

Upon the outer periphery of each section A, at each end, is fastened near one edge a metal spring, D, which

is wound, or rather curved, extending around the outer surface of the section to which it is attached, and laps over about two-thirds of the way on the next section, resting or fitting on the inner end of a similar spring attached to the latter section.

In this manner the entire cylinder is at each end surrounded by metal springs, which gives it great strength, and causes the sections to separate or expand equally in all directions; and as the seams of cans are generally only one seam lengthwise and one at the bottom, it will be seen that when the bottom is made, the body of the can placed therein, and my machine within the same, then, by pushing down the plunger, the springs D D keep an unbroken bearing against the entire seam at the bottom, whilst, if such springs were omitted, there would be an opening where the sections separate in expanding.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. The mandrel, consisting of the sections A A, elastic band B, and plunger C, substantially as described.

2. The arrangement of the metallic spring D D, in combination with the mandrel above described.

3. The construction, substantially as described, of plunger C, sections A A, and springs D D, for the purposes set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

ISAAC KLING.

Witnesses:

C. ALEXANDER,
T. H. ALEXANDER.