

Kerr & Kelly,

Soldering Clamp.

N^o 76,330.

Patented Apr. 7, 1868.

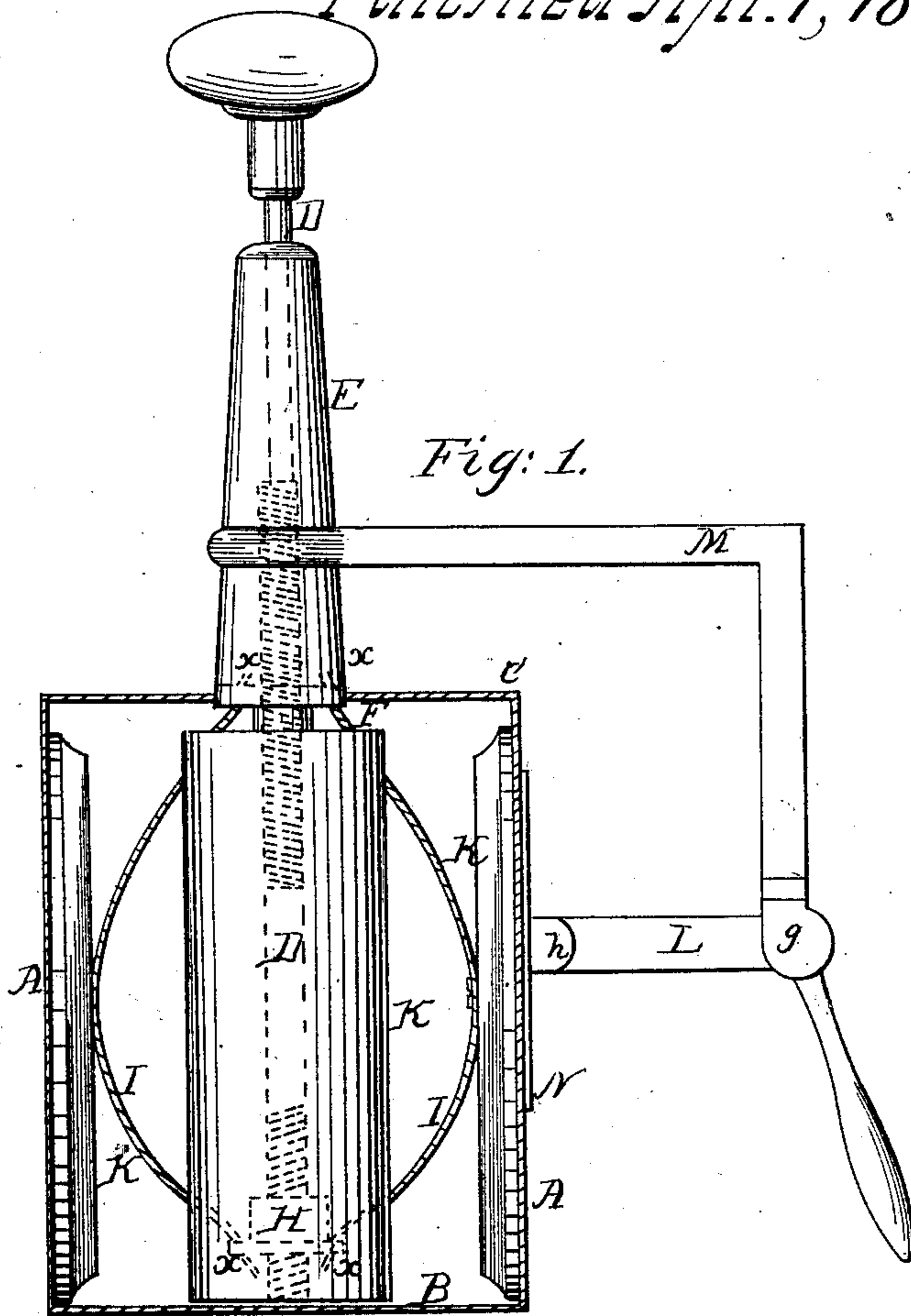


Fig: 1.

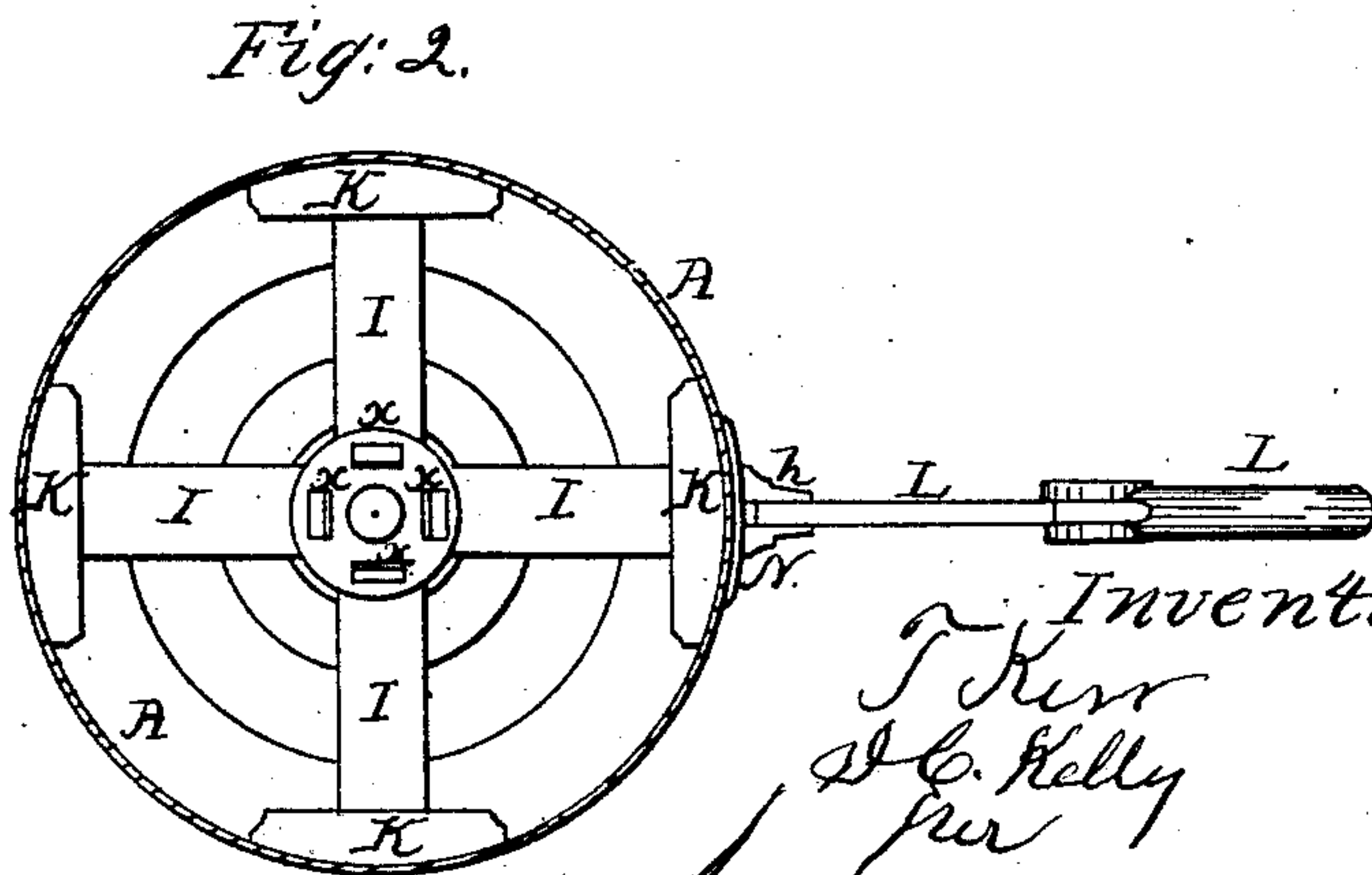


Fig: 2.

Witnesses.

*Wm. H. H. H. H.
J. O. Stockbridge*

Inventor.

*J. Kerr
J. C. Kelly
per*

*He. And. J. Mason
Atty*

United States Patent Office.

THOMAS KERR AND JOHN C. KELLY, OF EDINBURG, INDIANA.

Letters Patent No. 76,330, dated April 7, 1868.

IMPROVED DEVICE FOR HOLDING CANS WHILE BEING SOLDERED.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that we, THOMAS KERR and JOHN C. KELLY, of Edinburg, in the county of Johnson, and in the State of Indiana, have invented certain new and useful Improvements in Device for Holding Cans while Soldering; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and the letters of reference marked thereon. In the annexed drawings, making a part of this specification—

Figure 1 represents a longitudinal, and

Figure 2 represents a cross-section of our device for holding fruit-cans while soldering the same, with the said can in position therefor.

A represents the circular part or body of the can, which may be of any given dimensions, and B and C represent the bottom and top thereof. The part or body A is first cut in the proper shape, and of the size desired, and is then bent or formed, as shown in the drawings. The ends B and C are formed as shown, and then adjusted in plan, the top being provided with a circular hole through it, in the usual way. D represents a rod or shaft, provided with left and right-hand screw-thread cut thereon at or near the upper and lower ends of it. Screw-nuts, F and H, fit and work on the shaft D, at the parts shown in the drawings. A sleeve or hollow pipe, E, is adjusted and fits loosely over the upper end of the shaft D, to which the nut F is fastened in any secure manner. The nuts F and H are each provided with a suitable number of holes or perforations, $x x$, in which we adjust the opposite ends of springs I I. The springs I I are made of any suitable material, strength, and dimensions, and any desired number may be used. K K represent staves, made nearly as long as the inside of the can A, and of any required width, and slightly convex on the outside, to correspond with the concavity of the can A. These staves K K are secured to the springs I I in any substantial manner, at or near their centres, as is fully shown in the annexed drawings. M represents an arm, made in the form shown and rigidly secured to the sleeve E, or it may be made to embrace said sleeve, and adjusted or fastened by means of a thumb-screw, so as to be adjustable at any given or desired point on the said sleeve E, and in relation to the shaft D. L represents an elbow-lever, pivoted at *g* to the arm M, and has in turn a metallic plate, N, pivoted to one of its extremities, as shown at *h*. The plate N is made concave on its face, to correspond with the convexity of the outside of the can A, against which it fits, and acts as a counter-press.

It will be seen that by turning the shaft D one way, the nuts F and H are thrown or forced apart, and the springs I I, with the staves K K secured thereto, will thereby resume a position parallel with and close to the shaft D.

When the springs and staves are in the position above described, they, together with the lower end of the shaft D, are inserted through the hole in the top, C, and then, by turning the shaft D in the opposite direction, the nuts F and H approach each other, and force or bend the springs out in the shape shown in the annexed drawings.

The springs I I, when bent as above described, force the staves K K against the inside of the can A with an equal pressure on each, and thereby hold said can firm and in the form desired. The operator then forces the plate N, by means of the lever L, firmly against the outside of the can A, in a position directly opposite and against one of the staves K, by which means the can is conveniently and firmly held while soldering the side and ends of the same.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The sleeve E, screw-shaft D, springs I I, nuts F H, staves K, arm M, plate N, and lever L, all constructed and arranged substantially as and for the purposes herein set forth.

In testimony that we claim the foregoing, we have hereunto set our hands, this 25th day of February, 1868.

THOMAS KERR,
JNO. C. KELLY.

Witnesses:

A. N. MARR,
N. B. BERRYMAN.