

Patented Nov. 20, 1866.

Fig: 2.

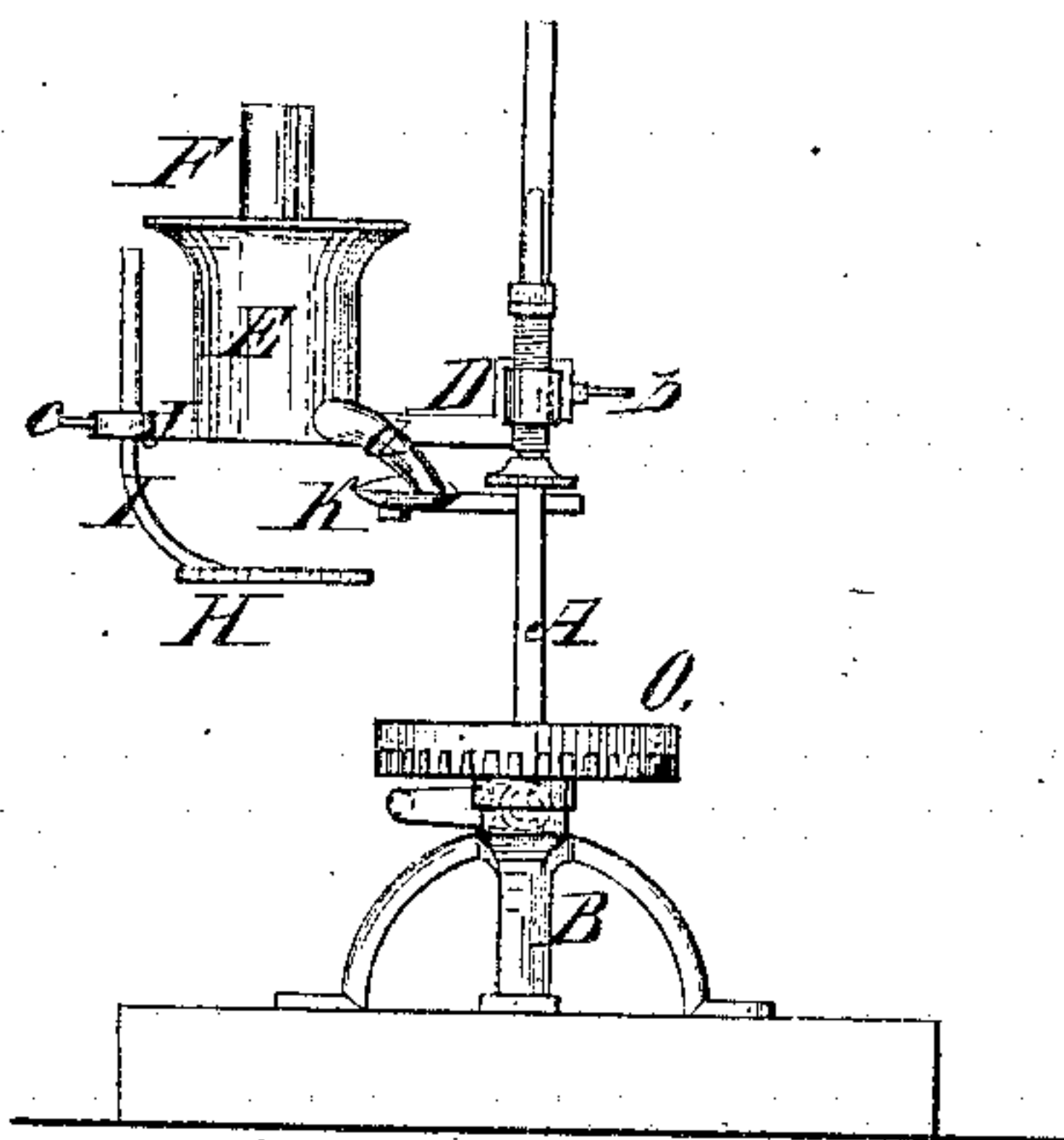
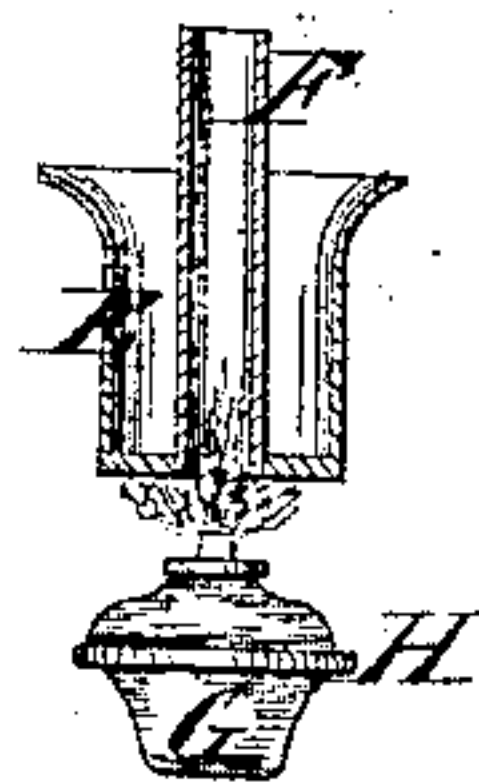


Fig: 4



Inventor:

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United States Patent Office.

IMPROVED APPARATUS FOR SEALING FRUIT CANS.

E. K. BRUCE AND J. M. BRUCE, OF WILKINS, PENNSYLVANIA.

Letters Patent No. 59,816, dated November 20, 1866.

SPECIFICATION.

TO ALL WHOM IT MAY CONCERN:

Be it known that we, E. K. and J. M. BRUCE, of Wilkins, in the county of Alleghany, and State of Pennsylvania, have invented a new and improved Device for Sealing or Cementing Cans, and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings forming part of this specification, in which—

Figures 1 and 2 are side elevations of our invention.

Figure 3, a plan or top view of the same.

Figure 4, a detached vertical central section of the cement vessel pertaining to the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new and useful device for sealing or cementing cans, designed more especially for sealing or cementing fruit cans. The object of the invention is to obtain a device by which the work may be rapidly and perfectly performed and with great facility. The invention consists substantially of an upright provided with a horizontal adjustable or sliding beam, having a clamp at one end and a sliding or adjustable arm fitted upon it which supports the cement vessel, the latter having a discharge spout and valve, and also provided with a tube which passes through its centre and serves as a chimney for a lamp, which keeps the cement in a warm, fluid state. A rotating table or disk is also arranged at the lower part of the device, on which the can to be sealed is placed, all being arranged in such a manner that the can may be placed on the rotating table or disk, the cover secured on the can by the clamp, the can then rotated by turning the table, and the warm or liquid cement allowed to pass from the vessel into the groove in the top of the can made to receive it.

A represents an upright bar, which is supported by a suitable base or framing, B; and C is a horizontal bar, one end of which is fitted on the upright bar, A, so that it may slide freely thereon. This bar, C, is secured at any desired point on the upright bar, A, by means of a set-screw, *a*.

D is a horizontal arm, one end of which is fitted on the horizontal bar, C, so that it may slide thereon, and is secured at any desired point on said bar, C, by a set-screw, *b*. On the opposite end of this arm, D, a vessel, E, is secured to hold or contain the cement, said vessel having a tube, F, fitted centrally in it to serve as a draught chimney for a lamp, G, which is fitted in a ring support, H, at the lower end of a rod, I, the latter passing loosely through a bracket, J, on arm D, in which a set-screw, *c*, passes to hold the rod, I.

The cement vessel, E, has a tube, *d*, projecting from it, and a valve, K, is secured to said tube by which the end of the latter may be opened or closed when desired; and in the outer end of the bar, C, there is fitted a vertical screw, L, having a crank, M, at its upper end, and a revolving disk, N, at its lower end.

O represents a circular table or disk having pendent teeth, *e*, at its outer edge, into which a pinion, P, gears, said pinion being on a shaft, Q, having a crank, R, at its outer end. This table or disk, O, and shaft, Q, have their bearings in the framing or base, B, and the centre of the table or disk, O, is in line with the screw, L.

The operation is as follows: The vessel, E, is supplied with the cement, the lamp, G, lighted and placed in its support, H, the cement being quickly warmed or heated in consequence of the draught chimney, F, passing through the cement vessel. The can is placed on the table or disk, O, the bar, C, being adjusted higher or lower to suit the height of the can, and the screw, L, turned until the disk, N, presses firmly upon the lid of the can and holds it in place. The arm, D, is then adjusted on bar C, so as to bring the end of the tube, *d*, over the groove in the top of the can designed to receive the cement. The can is then rotated by turning shaft Q; the valve, K, opened and the warm liquid cement passes into the groove in the can and seals it, the rotation of the can of course ensuring the groove being filled properly all around. The valve, K, is then closed, which stops the flow of the cement from E; the sealed can removed from the table or disk and the operation repeated.

Thus, by this very simple device, cans may be sealed very expeditiously and in a perfect manner.

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

1. The cement vessel, E, provided with a discharge, opening, or tube, with a cut-off or valve, K, in com-

bination with a rotary table or disk, O, on which the can to be sealed is placed, and a screw-clamp or its equivalent for holding the lid or cover on the can while the latter is being sealed, substantially as shown and described.

2. The adjustable bar, C, fitted on the upright bar, A, in connection with the adjustable arm, D, placed on bar C, all arranged as shown to admit of the proper adjustment of the cement vessel to the can to be sealed, as set forth.

3. The central tube, F, in the cement vessel, E, in combination with the lamp, G, fitted in an adjustable support, H, when said parts are used in connection with the rotary table or disk, O, and clamp, for the purpose set forth.

E. K. BRUCE,
J. M. BRUCE.

Witnesses:

THOMAS DAVISON,
MARY E. DAVISON.