A. Brooks.

Supporting Tin Cans When Being Soldered

No 73573 Patented Jan 21, 1868

Fig: 1.

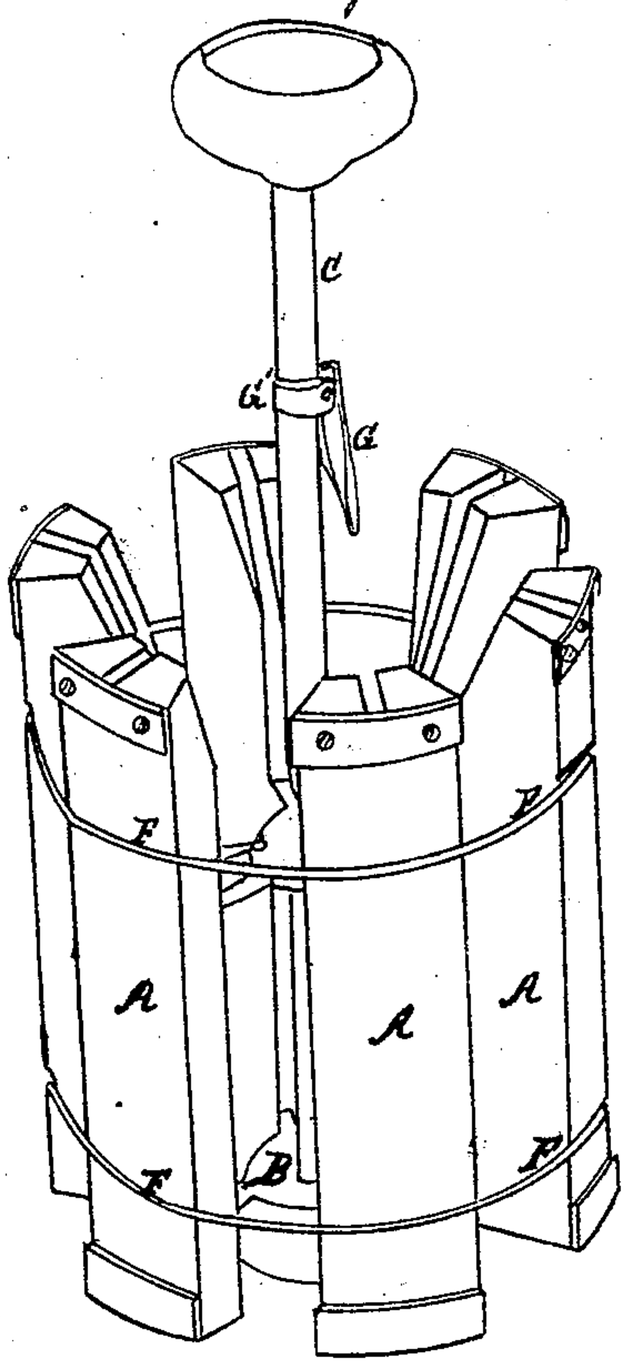


Fig: 3.

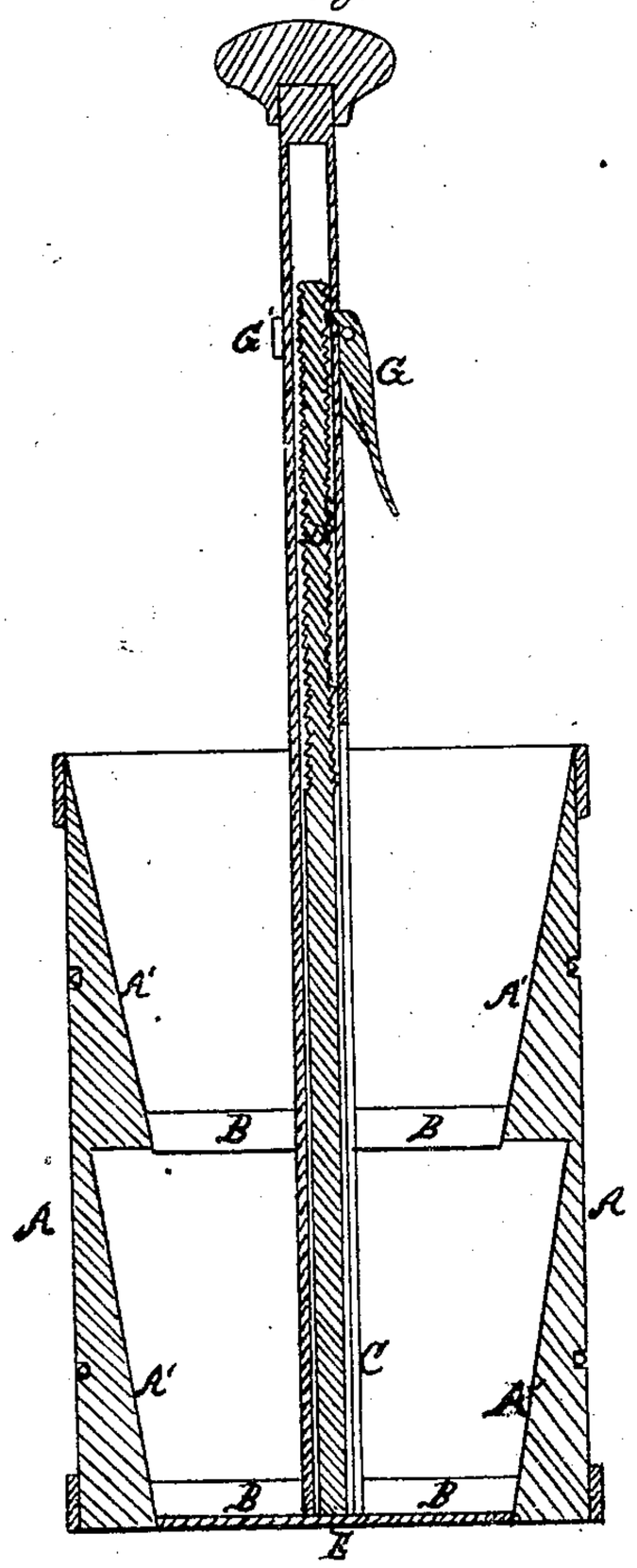
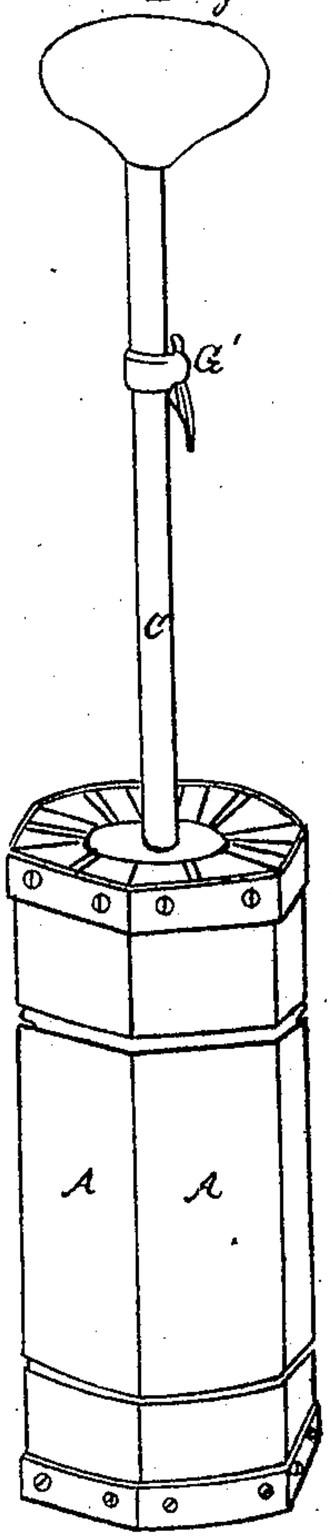


Fig: 2



Witnesses

Chas R Clausen

R Mason

Inventor

Almond Brooks

by

D. P. Holloway Jr

his attys

United States Patent Office.

ALMOND BROOKS, OF COLUMBUS, INDIANA.

Letters Patent No. 73,573, *dated January* 21, 1868.

IMPROVEMENT IN MACHINE FOR SUPPORTING TIN CANS WHEN 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 I, ALMOND BROOKS, of Columbus, in the county of Bartholomew, and State of Indiana, have invented a new and useful Improvement in Adjustable Frames or Rests for Supporting Tin Cans while being Soldered; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is a perspective view.

Figure 2 is also a perspective view showing the frame as closed.

Figure 3 is a vertical section.

The same letters are employed in all the figures in the designation of the same parts.

My improvement relates to an adjustable frame or rest for supporting the inside of tin cans such as are used for preserving fruit, &c., while being soldered; and my invention consists in the combination and arrangement of the parts by which the frame may be adjusted and held in position, so that it may be used in the manufacture of cans of different diameters.

The following description will enable persons skilled in the art to manufacture and apply my improvement to use.

The adjustable frame is composed of pieces A, fitting, when the frame is closed, against one another, as seen in fig. 2, forming a compact cylinder or prism, which may be passed through the hole in the top of the can. The inner vertical faces of these pieces are inclined, as shown in fig. 3, and have cut therein longitudinal grooves forming inclined planes, against which the radial arms of the spiders B B rest. These spiders are fastened to the tubular shaft C, and as it is pressed down, the arms descending along the base of the grooves, will force outwardly the frame-pieces from the position shown in fig. 2, to that shown in fig. 1. The tubular shaft slides over a rod, D, passing through it, the latter being attached to a circular plate, E, on the upper surface of which the frame-pieces stand. When the tubular shaft and spiders are raised, the frame will be contracted by the elastic bands F F passing around and countersunk within the pieces A. These bands may be a spiral spring or India rubber. A series of notches or a screw-thread cut in the rod D, at D′, will receive the point of a pawl, G, which is pivoted on a collar, G′, fastened to the shaft C, the head of the pawl passing through a hole in said tubular shaft. The head of the pawl is pressed against the rod by a spring. When the tubular shaft C is pressed downwards, the spider will expand the frame A to the diameter required, holding it in any desired position by the action of the pawl, which prevents the tubular shaft from rising on the rod. When the can has been soldered, by merely pressing on the pawl, the hooked head may be disengaged from the notches in the rod, and the contraction of the elastic bands will cause the spider to be forced up in the inclined grooves, and close the frame-pieces to the position shown in fig. 2.

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

The combination of the adjustable frame-pieces A with inclined faces and grooves A′, the spider B, tubular shaft C, internal rod D, plate E, elastic bands F, and pawl G, constructed and arranged to operate substantially in the manner and for the purpose set forth.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

ALMOND BROOKS.

Witnesses:

R. MASON,

D. P. HOLLOWAY,