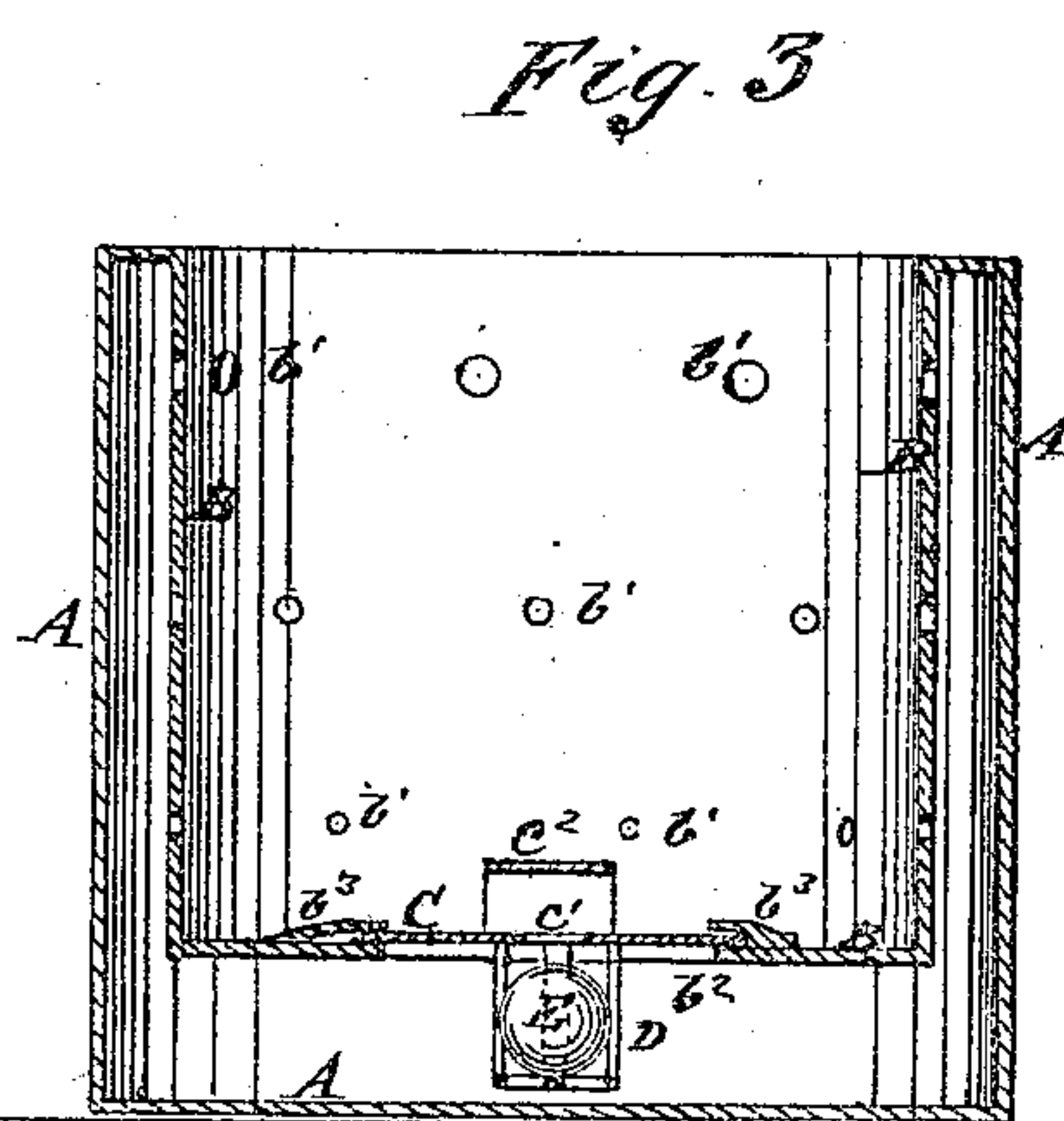
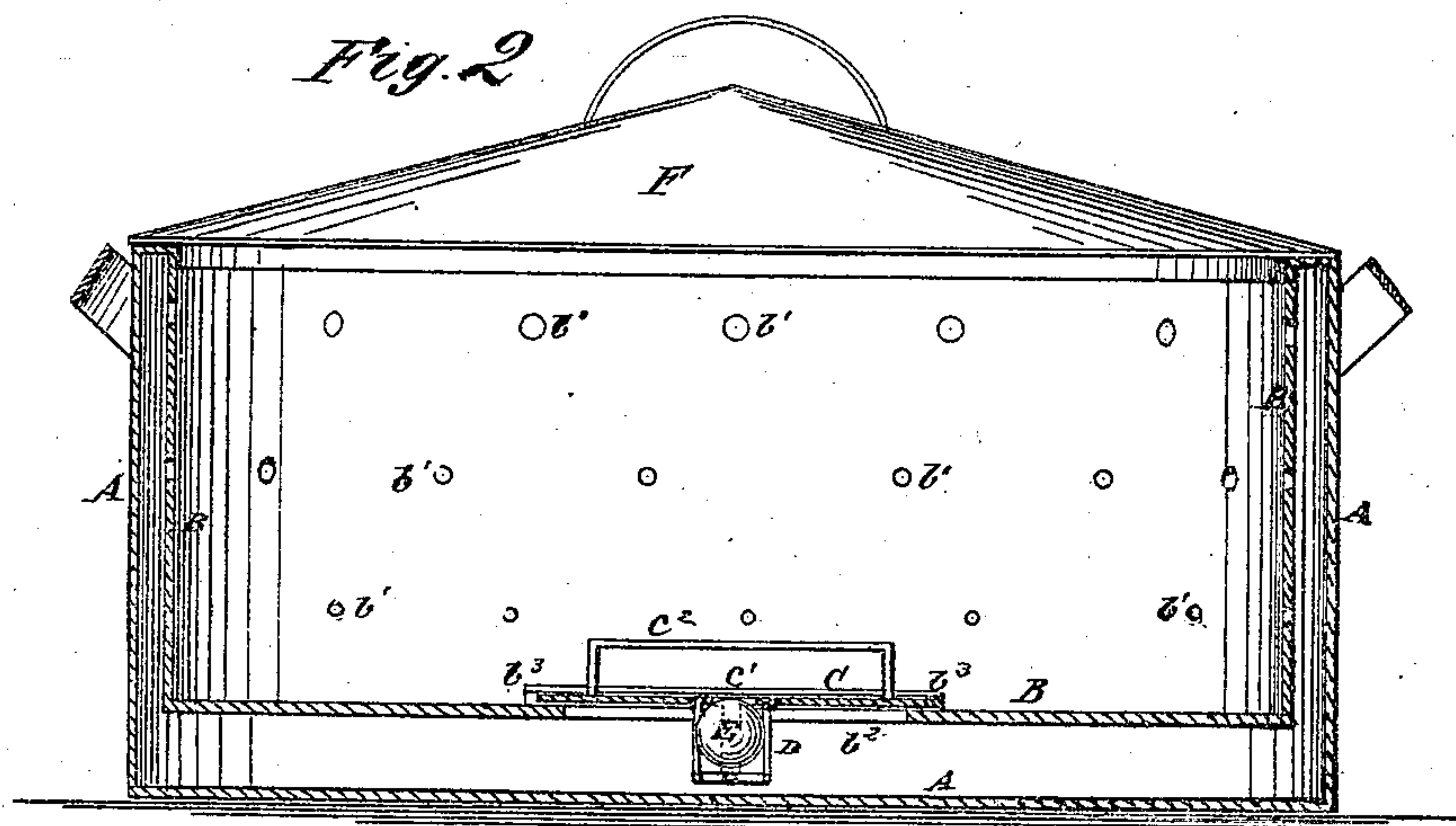
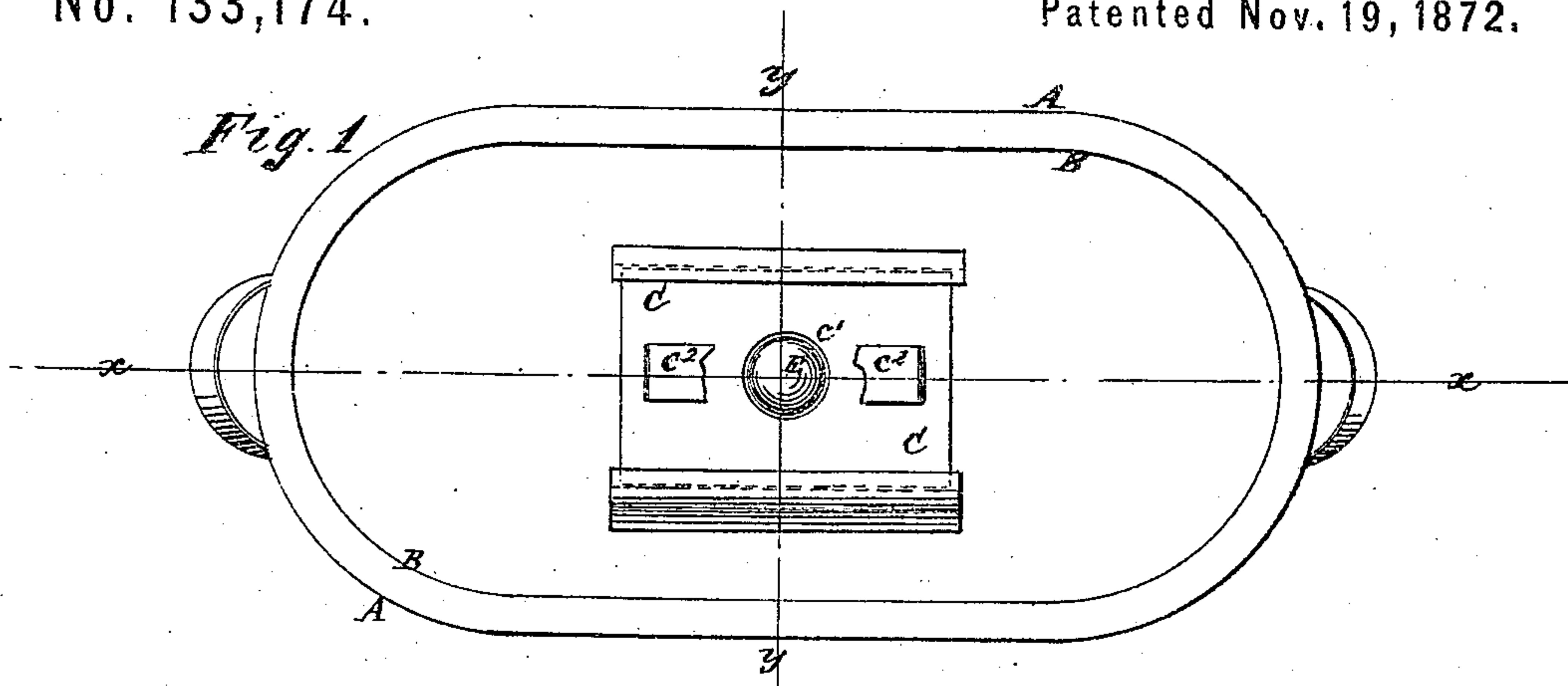


W. C. PUTT.

Improvement in Wash-Boilers.

No. 133,174.

Patented Nov. 19, 1872.



Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM C. PUTT, OF LUDLOW, ILLINOIS.

IMPROVEMENT IN WASH-BOILERS.

Specification forming part of Letters Patent No. 133,174, dated November 19, 1872.

To all whom it may concern:

Be it known that I, WILLIAM C. PUTT, of Ludlow, in the county of Champaign and State of Illinois, have invented a new and useful Improvement in Steam Clothes-Washer, of which the following is a specification:

Figure 1 is a top view of my improved steam clothes-washer, the cover being removed. Fig. 2 is a detail vertical longitudinal section of the same taken through the line *x x*, Fig. 1. Fig. 3 is a detail vertical cross-section of the same taken through the line *y y*, Fig. 1.

My invention has for its object to furnish an improved steam clothes-washer, simple in construction, convenient in use, and effective in operation, washing the clothes thoroughly and in a very short time; and it consists in providing a boiler, which is suspended within another, so as to leave a space between them, and has a series of holes in its sides, with a detachable plate provided with a guard, a hole, and a peculiar valve, as hereinafter more fully described.

A is the outer and B is the inner boiler or shell, the upper edges of which are securely soldered to each other to prevent any escape of steam or water through said joint. The inner boiler B is made smaller than the outer boiler A, so as to leave a space of from one-quarter to one-half an inch between them, according to the size of the washer. The inner boiler B is made shallower than the outer boiler, so as to leave a space of two inches (more or less) between the bottoms of said boilers. The inner boiler is perforated with numerous holes, *b*¹, the lower holes being made small, and the other holes gradually increasing in size toward the top of the boiler, as shown in Figs. 2 and 3. In the middle part of the bottom of the inner boiler B is formed a hole, *b*², which is covered with a plate, C, the side edges of which are inserted beneath strips *b*³ attached to the bottom of the boiler B, one of said strips being made wider than the other, so that the plate C may be applied and removed by slipping its edge so far beneath said wider strip that its other edge may be insert-

ed and withdrawn past the edge of the narrower strip *b*³. In the center of the plate C is formed a hole, *c*¹, one and three-fourths inch, more or less, in diameter, which hole *c*¹ is covered with a strip, *c*², to protect the hole *c*¹ from being closed, choked, or clogged by the clothes, and to serve as a handle for inserting and removing the plate C. To the lower side of the plate C, around the hole *c*¹, is attached a slotted tube or tubular frame, cage, or spider, D, of a larger diameter than said hole *c*¹, and in which is placed a ball, E, which is secured from falling out by a wire or other convenient means. The washer is provided with a cover, F, fitting snugly into the mouth of the inner boiler B.

In using the boiler the plate C and its attachments is removed, a quantity of soap and enough water to fill the space between the boilers A B to the depth of an inch (more or less) are poured in. The plate C is then inserted, the clothes are put in, and the boiler is placed over the fire. As the water heats and steam is developed the ball E is raised, closing the hole *c*¹. The water and steam are then forced up between the walls of the two boilers A B, and are projected through the holes *b*¹ in the boiler B.

The steam and water projected through the lower holes *b*¹ penetrate the mass of clothes laterally; and the water and steam projected through the holes *b*¹ above the clothes strike the upper side of said clothes and percolate through them, so that the clothes will be washed clean in a very short time.

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

The detachable plate C, provided with the guard *c*², hole *c*¹, and valve D E, and detachably attached to the perforated bottom of the inner boiler B, substantially as herein shown and described, and for the purposes set forth.

WILLIAM C. PUTT.

Witnesses:

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