

P. KRUMSCHEID.

Wash-Boilers.

No. 137,612.

Patented April 8, 1873.

Fig. 1

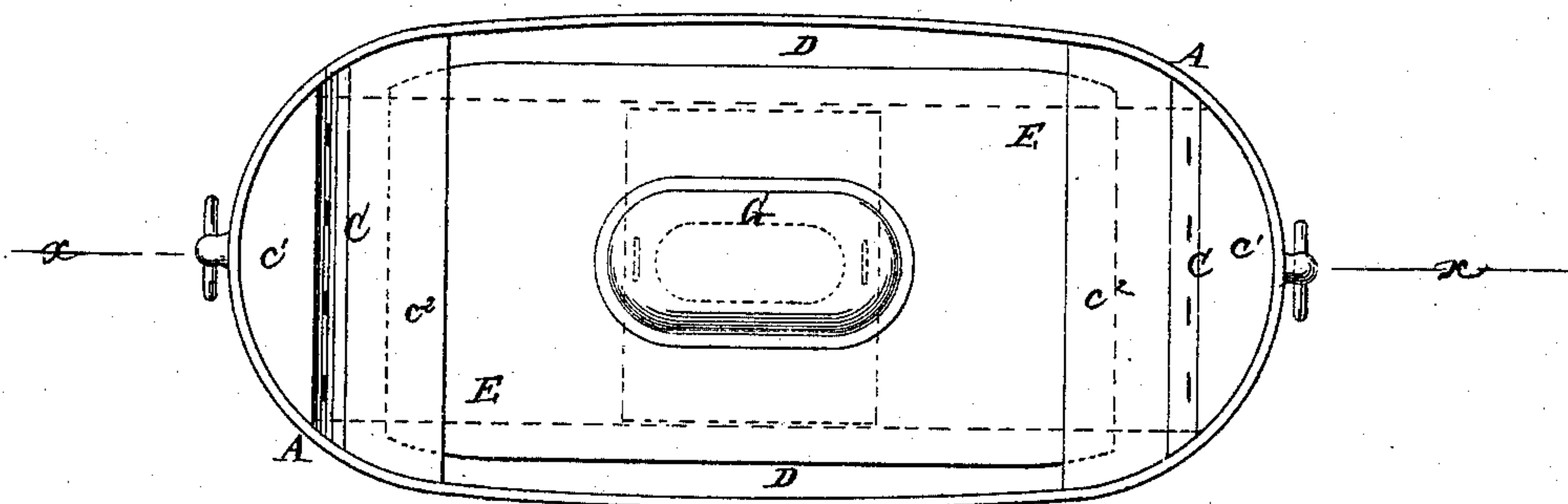


Fig. 2

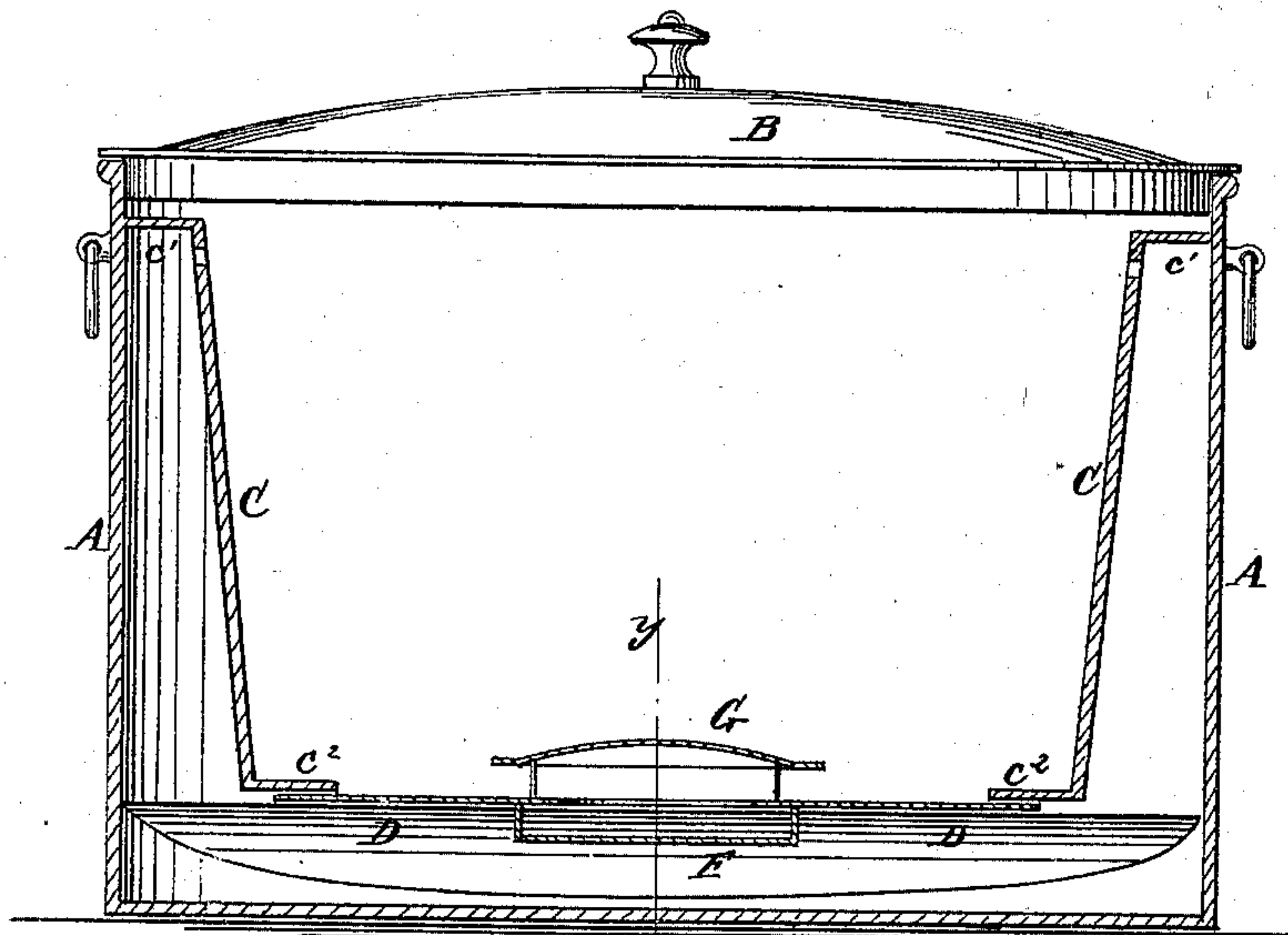
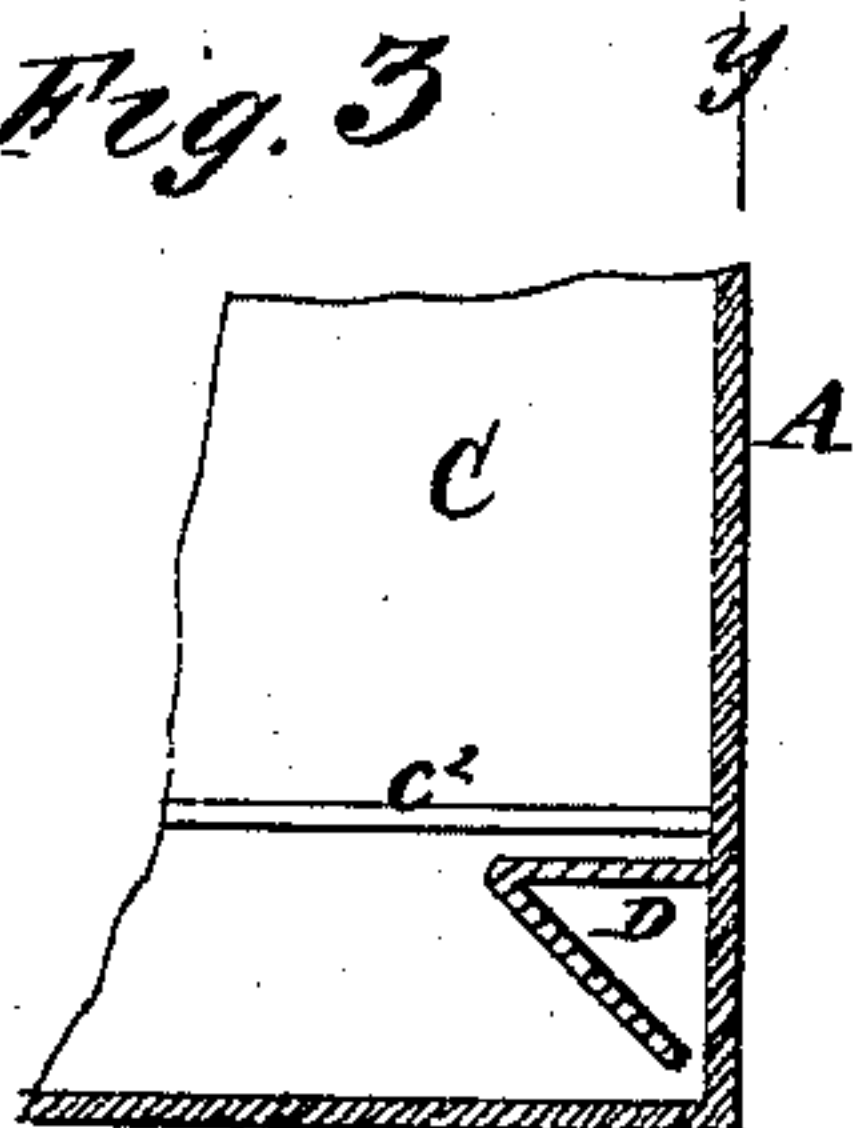


Fig. 3



Witnesses:

*A. W. Almqvist*  
*C. S. S. S. S.*

Inventor:

*P. Krumscheid*  
Per *Wm. L. S.*  
Attorneys.

# UNITED STATES PATENT OFFICE.

PHILIP KRUMSCHEID, OF BOSTON, MASSACHUSETTS.

## IMPROVEMENT IN WASH-BOILERS.

Specification forming part of Letters Patent No. **137,612**, dated April 8, 1873; application filed March 15, 1873.

*To all whom it may concern:*

Be it known that I, PHILIP KRUMSCHEID, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Wash-Boilers, of which the following is a specification:

Figure 1 is a top view of my improved boiler. Fig. 2 is a detail longitudinal section of the same taken through the line *xx*, Fig. 1. Fig. 3 is a detail section of the same taken through the line *yy*, Fig. 2.

My invention has for its object to improve the construction of wash-boilers, so as to make them more effective in operation than when constructed in the ordinary manner. The invention consists in the side plates or flanges and the detachable plate with a lower cap-plate and an upper cap-plate, in combination with the flanges of the tube-plates and with the boiler, as hereinafter fully described.

A represents the body, and B the cover, of a washing-boiler, about the construction of which parts there is nothing new. C are two plates, the side edges of which are secured to the sides of the boiler A, near its ends so as to form tubular spaces between said plates and the ends of the boiler. The upper ends C<sup>1</sup> of the plate C are bent outward and are secured to the ends of the boiler A, so as to wholly close the upper ends of said tubular spaces. In the plates C, just below the ends or flanges C<sup>1</sup>, are formed a number of small holes for the water to escape through. The lower ends C<sup>2</sup> of the plate C, a little above the bottom of the boiler, are bent inward, as shown in Fig. 2. D are plates, the outer edges of which are secured to the sides of the boiler A in a horizontal position. The inner parts of the plates D are bent downward and outward till they reach or nearly reach the

sides of the boiler A, so that the water can readily pass into the space between the plate D and the boiler A. E is a plate, the side parts of which rest upon the plate D, and the end parts of which slip in beneath the flanges C<sup>2</sup> of the plates C, so that plate E can be readily removed and inserted when desired. In the middle part of the plate E is formed a hole, which is covered upon the under side by a cap-plate, F, the ends of which are bent upward and are secured to the under side of the said plate F. The hole in plate E is covered upon the upper side by a cap-plate, G, which is connected with and supported from the plate E by short standards. With this construction the clothes are kept from getting into the hole in the plate E, and thus impeding the operation of the boiler by the plate G, and the water is kept from boiling up through the hole in plate E by the plate F, while the water can flow down freely to be heated and forced through the tubes C, and again discharged upon the clothes.

By this construction the boiling water cannot be forced up around the false bottom, but must always be forced up through the tubes C.

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

The side plates or flanges D, and the detachable plate E provided with a lower cap-plate, F, and an upper cap-plate, G, in combination with the flanges C<sup>2</sup> of the tube-plates C, and with the boiler A, substantially as herein shown and described.

PHILIP KRUMSCHEID.

Witnesses:

JAMES T. GRAHAM,  
T. B. MOSHER.