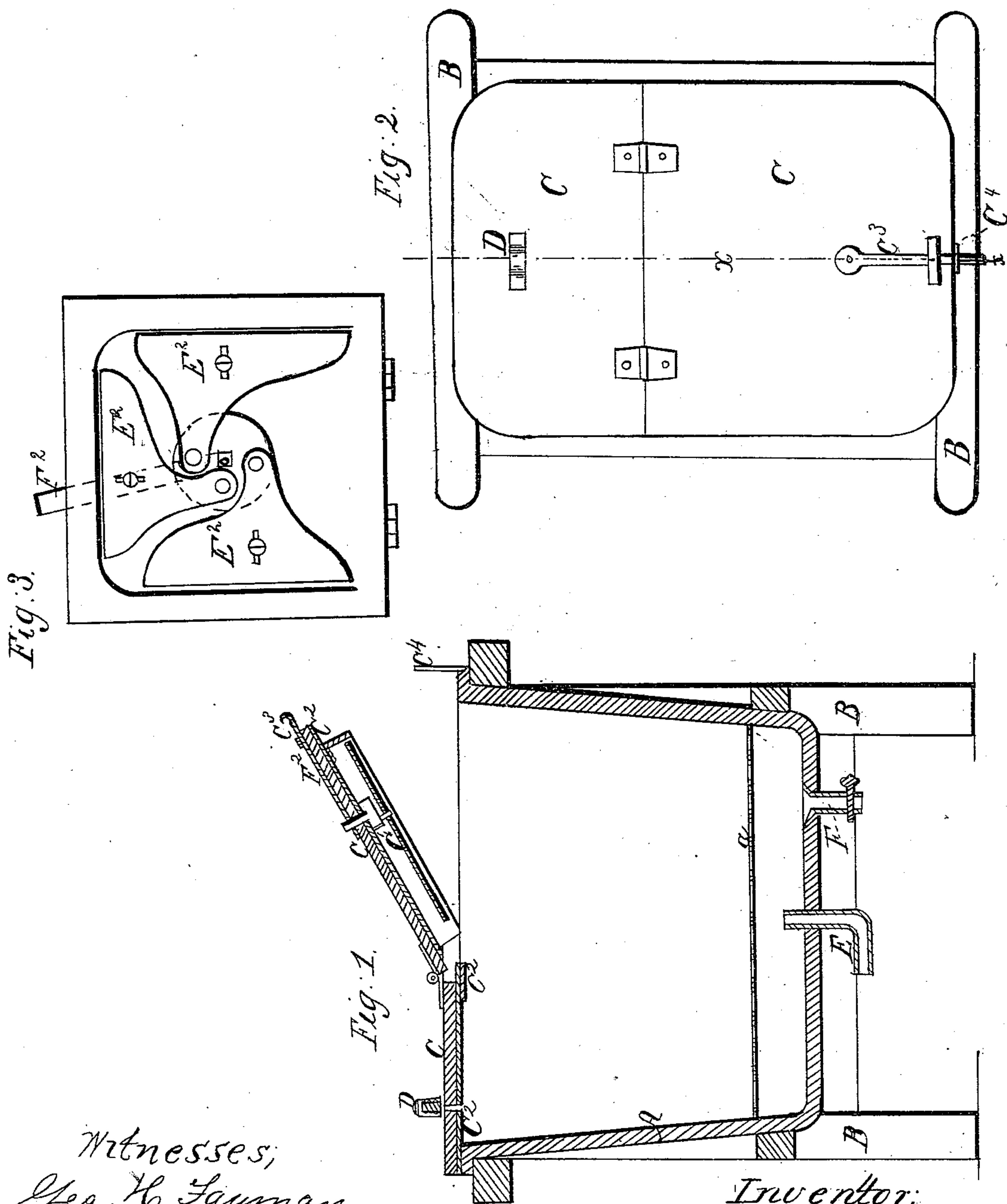


W. H. CROSBY.

Domestic Boiler.

No. 36,558.

Patented Sept. 30, 1862.



Witnesses,  
Geo. H. Layman  
Thomas P. Down

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# UNITED STATES PATENT OFFICE.

WILLIAM H. CROSBY, OF WASHINGTON, DISTRICT OF COLUMBIA.

## IMPROVEMENT IN BOILERS FOR CULINARY PURPOSES.

Specification forming part of Letters Patent No. 36,558, dated September 30, 1862.

*To all whom it may concern:*

Be it known that I, WILLIAM H. CROSBY, of Washington, in the District of Columbia, have invented a new and useful Improvement in an Apparatus for Boiling Meats, Vegetables, &c.; and I hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Figure 1 represents a longitudinal vertical section at the line *xx* of Fig. 2, through an apparatus for boiling meats, vegetables, &c., to which my improvement is applied, with the lid or cover partially raised. Fig. 2 represents a plan or top view of the same, with the lid closed or shut down. Fig. 3 represents an under view of the lid, showing the manner in which the flanges of the same are tightened or pressed against the sides of the boiler.

My improvement consists in a new mode of packing and closing the joints of the lid or cover of a steam-boiler, whereby it may be readily removed or replaced, and yet when shut down be steam-tight. This is a great improvement, for, as such boilers have heretofore been constructed, the steam would escape, causing a great waste of steam, besides filling the room with steam, to the great discomfort and inconvenience of those employed in it.

In the accompanying drawings, A represents a pot or boiler of any suitable form or size supported in a frame, B, of wood or mason work. The pot A is provided with a cover, C, which is hinged near the end to permit of its being opened for the entrance or removal of the articles to be cooked. The fixed part of the lid is firmly secured to the rim of the boiler, a strip of sheet-lead, C<sup>2</sup>, being interposed between them to make a tight joint. A similar strip is likewise secured to the under side of the movable part *c* of the lid, between the lid and the flexible flange (or rim *c*, which is made of copper,) L-shaped in its cross-section,

and fits tightly around the inner side of the rim of the boiler. Slides E<sup>2</sup> are attached to the under side of the lid, working from one center by means of the latch F<sup>2</sup> on the upper side, which, when the lid is closed by moving the latch F<sup>2</sup>, the flanges are pressed hard against the rim of the boiler, so that when the metal becomes heated the expansion of the copper and lead makes the joint steam-tight.

The pot is provided with an entrance-pipe, E, exit-pipe F, a safety-valve, D, and a perforated false bottom, *a*.

The mode of operation is as follows: Either steam or hot water may be used by opening the exit-pipe F when steam is wanted, or by closing the same when water is used. We will suppose in this instance steam to be the agent employed. The articles to be cooked are to be placed upon the false bottom *a* and the lid *c* shut down. The latch is then pressed to one side, which moves the slides on the under sides of the lid against the flanges, thus forming a tight joint. Steam is then admitted through the pipe E, and insinuates itself through the mass of articles to be cooked. The exit-pipe F being opened and the steam permitted to escape, were it not for the pressure upon the flexible flanges against the sides of the rim of the boiler the steam would soon begin to escape and fill the room, to the inconvenience of those employed therein. The safety-valve D prevents any damage from excessive pressure of steam. When the articles are sufficiently cooked, the steam is shut off, the lid raised, and the articles removed.

I do not claim, broadly, cooking articles by steam in a tight vessel; but

What I do claim as my invention is—

The slides E<sup>2</sup> E<sup>2</sup> E<sup>2</sup>, operated by the latch F<sup>2</sup>, when combined with a boiler for culinary purposes, constructed and operating substantially as described.

W. H. CROSBY.

Witnesses:

THOMAS C. DONN,  
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