

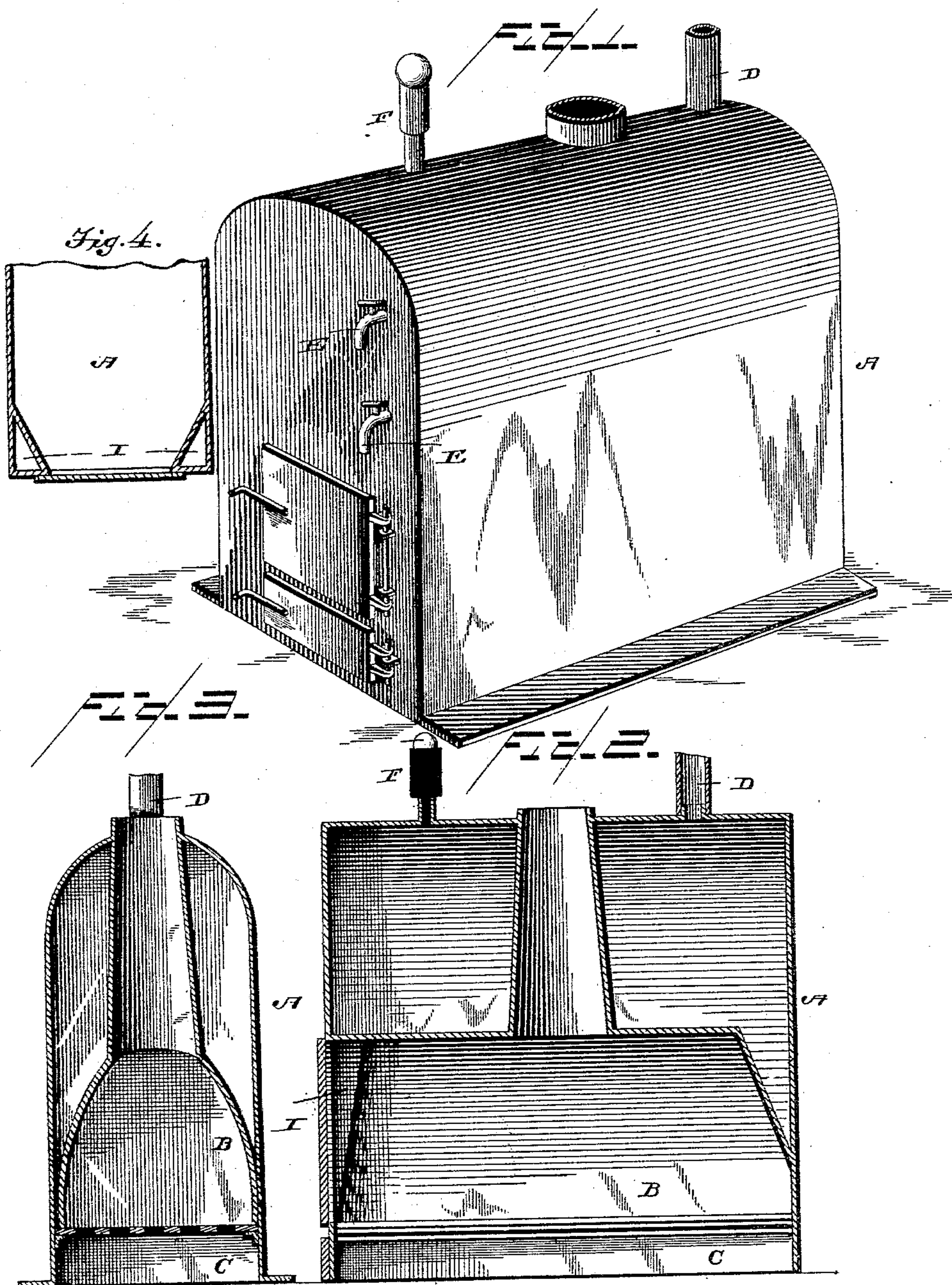
(No Model.)

E. OREWILER & E. R. LARCOMB.

BOILER.

No. 387,805.

Patented Aug. 14, 1888.



WITNESSES.

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# UNITED STATES PATENT OFFICE.

ELZA OREWILER AND EMANUEL R. LARCOMB, OF UPPER SANDUSKY, OHIO.

## BOILER.

SPECIFICATION forming part of Letters Patent No. 387,805, dated August 14, 1888.

Application filed April 7, 1888. Serial No. 269,996. (No model.)

*To all whom it may concern:*

Be it known that we, ELZA OREWILER and EMANUEL R. LARCOMB, citizens of the United States, residing at Upper Sandusky, in the county of Wyandot and State of Ohio, have invented certain new and useful Improvements in Boilers; and we do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention has relation to a steam-boiler designed for steaming or cooking feed for stock, heating water, &c.; and it has for its objects to provide a device which may be cheaply manufactured, so as to be brought within the reach of the ordinary farmer, and one which will be effective in rapidly heating water with a comparatively small amount of fuel.

The invention will be fully understood from the following description and claim, when taken in connection with the annexed drawings, in which—

Figure 1 is a perspective view of a boiler constructed according to our improvements. Fig. 2 is a longitudinal central sectional view of the same. Fig. 3 is a vertical cross-sectional view of the same, and Fig. 4 is a horizontal section through a portion of the boiler containing protecting-chambers adjacent to the fire-box.

Referring by letter to the said drawings, A indicates a boiler, which may be of galvanized iron or other suitable material, although the former is preferred. This boiler is preferably of the form shown in the drawings, having the smoke-stack passing vertically through the boiler and decreasing in diameter upwardly.

By reference to Figs. 2 and 3 of the drawings it will be observed that the walls of the boiler are carried down so as to form a fire box or furnace, B, beneath which is the usual ash-chamber, C, and that the inner walls form-

ing the bottom of the boiler around the smoke-flue are extended downwardly into the fire-box, so that the water being heated or a portion of it surrounds the fire-chamber. By this construction the boiler is produced at a comparatively small expense and renders the entire device, including the furnace, portable, so that it may be easily carried to any desired point for use.

D indicates the steam-pipe for conducting the steam from the boiler, and E indicates nozzles having valves whereby the water may be drawn off when desired. These valves will also serve as a means for ascertaining the quantity of water in the boiler.

In the top of the boiler and at a suitable point we arrange a safety-valve. It will also be observed by reference to Fig. 2, that the walls of the boiler extend down the front of the furnace on opposite sides of the doors to form water-chambers I, which serve to protect the front from the effects of the fire.

Having described our invention, what we claim is—

The portable steam-boiler herein described, consisting, essentially, of the outer case or shell, having its end walls carried down to form part of the fire-box, and also the ash-chamber, and the tapering smoke-flue passing through the boiler and having its lower portion expanded, as shown, and fixed to the top and side wall of the fire-box, the said fire-box having between it and the shell a water-chamber, and also having the front wall carried down on opposite sides of the door to form a chamber, I, whereby the front wall of the boiler may be protected, substantially as specified.

In testimony whereof we affix our signatures in presence of two witnesses.

ELZA OREWILER.  
E. R. LARCOMB.

Witnesses:

ADAM J. GAMBER,  
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