F. FARLEY & J. B. BLACKWOOD.

AGRICULTURAL STEAM-COOKER.

No. 191,127. Patented May 22, 1877.

Fig. 1.

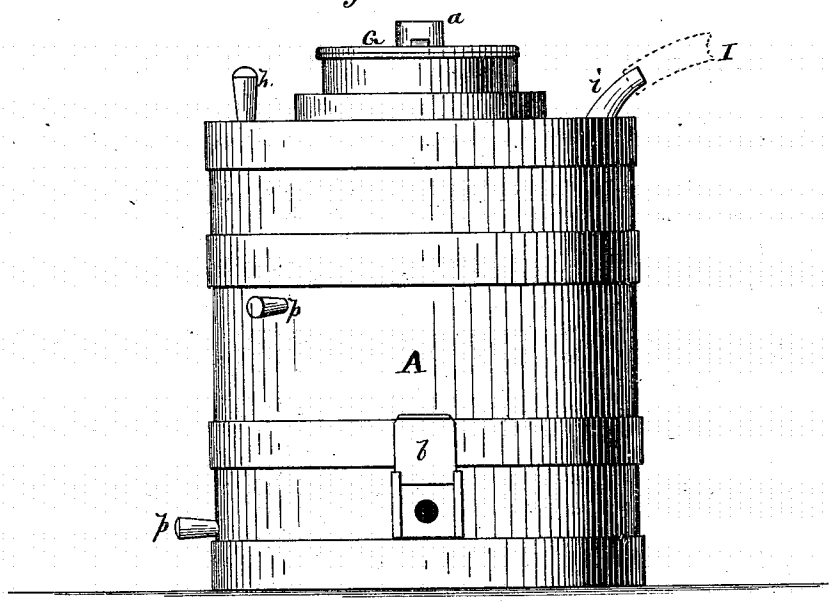
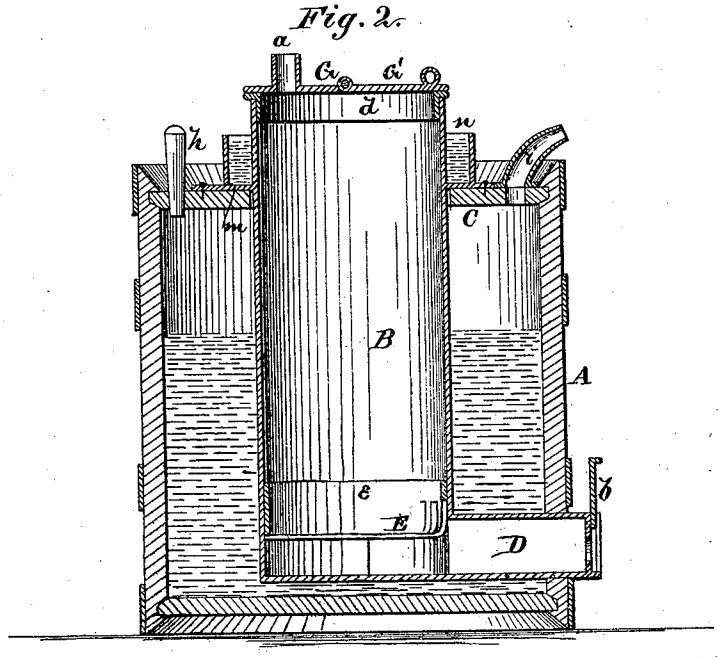


Fig. 2.



WITNESSES

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FRANK FARLEY AND JOSEPH B. BLACKWOOD, OF KEOTA, IOWA.

IMPROVEMENT IN AGRICULTURAL STEAM-COOKERS.

Specification forming part of Letters Patent No. **191,127**, dated May 22, 1877; application filed March 29, 1877.

To all whom it may concern:

Be it known that we, FRANK FARLEY and JOSEPH B. BLACKWOOD, of Keota, in the county of Keokuk, and in the State of Iowa, have invented certain new and useful Improvements in Agricultural Steam-Cookers; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of our invention consists in the construction and arrangement of a steam-generator, particularly designed for the use of farmers in generating steam for cooking feed, washing, and other purposes, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which our invention appertains to make and use the same, we will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side elevation of our invention. Fig. 2 is a central vertical section of the same.

A represents a common oil-barrel or other water-tight vessel; and B is an upright sheet-metal cylinder in the center of the barrel A, and extending through the top head C thereof.

D is a draft-flue, entering the cylinder or fire-box B at the bottom, and projecting out through the side of the vessel A, near the bottom, which flue serves as a conductor for the air to the fire on the grate E.

G is the cover of the cylinder B, in which is a pipe-collar, *a*, for the attachment of suitable pipe to give a brisk circulation to the passing air, causing the fuel to burn freely.

At the outer end of the draft-flue D is a damper, *b*, for regulating the draft.

The cylinder-cover G is made of cast-iron, with a hinged door, G′, to raise up for putting in the fuel. This cover is not fastened down, but is only held in place by means of a flange, *d*, fitting inside the cylinder, so that the cover can be removed at pleasure, and with an old broom or brush the heating-surface of the cylinder can be easily cleaned, which otherwise would diminish the heat radiated from it. The fire is easily raked and the ashes removed through the draft-flue D.

The grate E is a basket-grate, with high sides *e*, which protect the cylinder from the burning fuel. This grate can readily be lifted out, when required, by removing the cover G.

The space between the cylinder B and barrel A is to be filled with water through the inlet *h* in the top head C of the barrel; and when the fuel is ignited, and heat is generated sufficient to get up steam, this steam is conducted from a tube, *i*, in the top head C, through flexible tubing I, to a barrel, box, trough, or other receptacle containing the feed to be cooked.

The steam may also be used for cleansing clothes, renovating feathers, or any other purposes desired.

To prevent the solder melting on the top of the barrel, where the plate or collar *m* is soldered to the cylinder B, a hoop, *n*, is attached to said plate or collar, around and concentric with the cylinder, forming a cup, as shown; and when starting steam, or when first starting the fire, this cup is to be filled with cold water, thus making a perfect preventive against all danger of unsoldering.

The barrel A is provided with suitable plugs *p*, for letting off steam and drawing off all the water, when necessary.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The combination of the barrel A, cylinder B, draft-flue D with damper *b*, the removable basket-grate E, having high sides *e*, and the removable cover G, provided with hinged door G′, collar *a*, and rim *d*, all substantially as and for the purposes herein set forth.

In testimony that we claim the foregoing we have hereunto set our hands.

FRANK FARLEY.
JOSEPH B. BLACKWOOD.

Witnesses:
J. E. EATON,
W. F. WOOLEY.