(No Model.)

J. W. BABBIT & G. W. MORRIS.

PORTABLE FURNACE.

No. 299,713. Patented June 3, 1884.

Fig. 2.

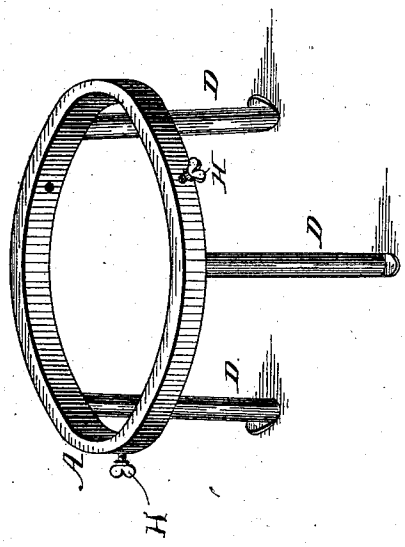


Fig. 4.

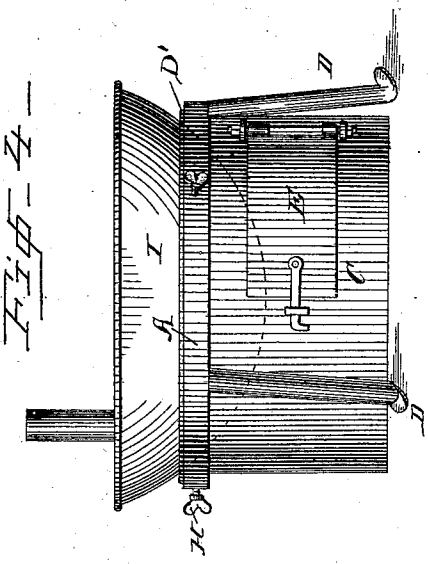


Fig. 1.

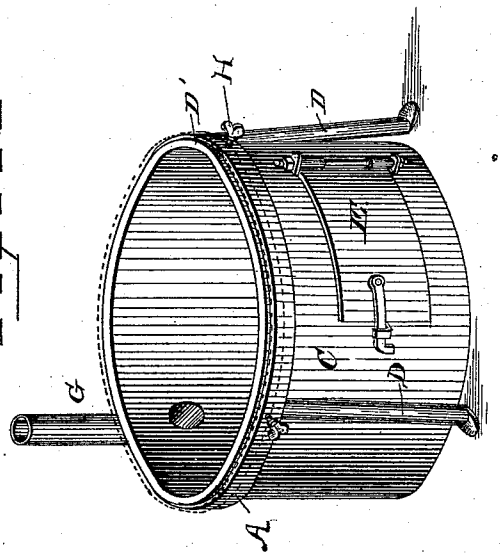
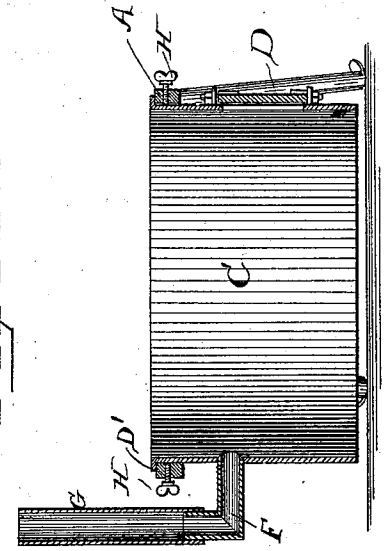


Fig. 3.



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UNITED STATES PATENT OFFICE.

JOSEPH WALTER BABBIT AND GEORGE WASHINGTON MORRIS, OF AROMA, INDIANA.

PORTABLE FURNACE.

SPECIFICATION forming part of Letters Patent No. 299,713, dated June 3, 1884.

Application filed December 27, 1883. (No model.)

To all whom it may concern:

Be it known that we, JOSEPH W. BABBIT and GEORGE WASHINGTON MORRIS, citizens of the United States, and residents of Aroma, in the county of Hamilton and State of Indiana, have invented certain new and useful Improvements in Portable Furnaces; and we do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of our improved portable furnace. Fig. 2 is a similar view of the outside rim or support. Fig. 3 is a vertical sectional view, and Fig. 4 is a side elevation, of the furnace, showing a kettle or boiler placed over it.

Similar letters of reference indicate corresponding parts in all the figures.

Our invention has relation to portable boilers for agricultural and domestic purposes; and it consists in the detailed construction of a boiler-furnace adapted for the use of farmers for boiling feed, sugar, and all other purposes to which this class of furnaces is adapted.

In the accompanying drawings, A is a ring, made of band-iron, and supported upon three legs, D. Fitting inside of the rim A is a cylinder, C, of sheet metal, open at the top and bottom, and bent outwardly on top, to form a rim or flange, D', adapted to overlap and rest upon the supporting-ring A. On one side of the cylinder C is a door, E, through which the fuel is placed in the furnace, and opposite to this door is an elbow, F, for the attachment of the smoke-stack G.

The sheet-metal cylinder C may be raised or lowered inside of its supporting-ring A and held in its adjusted position by means of set-screws H, inserted through the rim A, and bearing with their inner ends against the outside of the cylinder C. In this manner, by raising the open-bottomed cylinder a short distance above the ground, upon which the fire is built through the door E, an even draft is provided for the fire under the rim of cylinder C all around the furnace; or, if desired, a small trench may be dug transversely under the cylinder, through which air is fed to the fire inside.

The kettle or boiler I should be of such a size as to fit over the top rim of cylinder C, as shown in the drawings; and, if desired, a closely-fitting flanged cover may be placed over the open top of the cylinder, as indicated in dotted lines, when it is desired to use the apparatus for baking or for heating purposes.

Having thus described our invention, we claim and desire to secure by Letters Patent of the United States—

The combination of the supporting-ring A, having feet B and set-screws H, and sheet-metal cylinder C, open at the top and bottom, and having the flange D', door E, and elbow F, substantially as set forth.

In testimony that we claim the foregoing as our own we have hereunto affixed our signatures in presence of two witnesses.

JOSEPH WALTER BABBIT.
GEORGE WASHINGTON MORRIS.

Witnesses:
JACOB EILAR,
WM. HILL.