(No Model.)

N. T. EDSON.

PORTABLE FURNACE.

No. 452,118. Patented May 12, 1891.

Fig. 1.

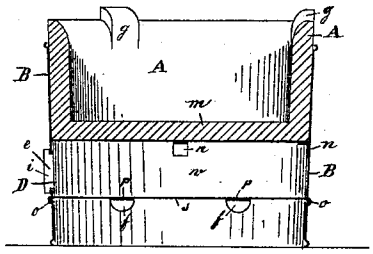


Fig. 2.

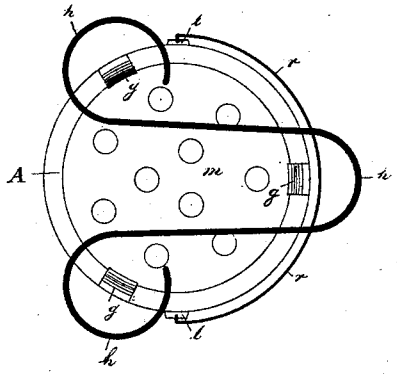
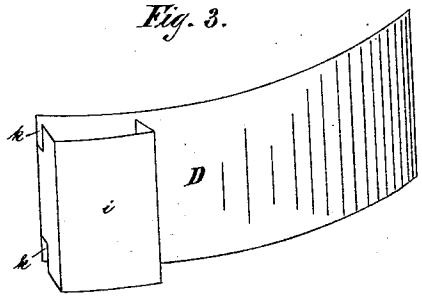


Fig. 3.



WITNESSES

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NATHANIEL T. EDSON, OF NEW ORLEANS, LOUISIANA.

PORTABLE FURNACE.

SPECIFICATION forming part of Letters Patent No. 452,118, dated May 12, 1891.

Application filed March 12, 1888. Renewed April 17, 1891. Serial No. 389,261. (No model.)

To all whom it may concern:

Be it known that I, NATHANIEL T. EDSON, a citizen of the United States, residing at New Orleans, in the parish of Orleans and State of Louisiana, have invented a new and useful Improvement in Portable Furnaces, of which the following is a specification.

My invention relates to improvements in portable furnaces; and the objects of my improvements are, first, to construct a light and durable furnace, in which the clay portion may be removed when so worn or deteriorated as to be useless; second, a furnace-iron; third, a sliding door. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a vertical section of the furnace. Fig. 2 is a top view of the same. Fig. 3 is a perspective view of the door.

Similar letters refer to similar parts throughout the several views.

A is the clay part of the furnace. B is the metal part of the same.

D is the door.

The ash-pit *w* is formed in the metal part of the furnace.

s is the bottom of the ash-pit.

e is an opening through the side of the ash-pit.

f are ventilating-openings formed below the ash-pit, to admit of a circulation of air.

g are knobs formed on the top edge of the clay part of the furnace.

h is a furnace-iron on which to place cooking utensils, the central part of which incloses one of the knobs *g* and its ends the other knobs, thereby securing the iron from displacement.

The end of door D is bent to form handle I, the end of which handle rests against the outside of ash-pit *w*, above and below opening *e*, thus holding the door against the inside of the ash-pit.

k k are slots formed in the door-handle, in which slots the edges of openings *e* enter. The door when closed prevents sparks and cinders from falling out of the ash-pit and when open admits of the removal of ashes therefrom. In adjusting the door it is placed in the ash-pit with the clay part of the furnace off the metal part. The end of the door is elevated and its handle put out through opening *e*, then its elevated end dropped down with the top edge of opening *e* entering one of the slots *k*, and the bottom edge of the opening entering the other slot *k*.

l are ears attached to the metal part of the furnace, to which handle *r* is attached.

m is an integral grate forming the bottom of the clay part of the furnace.

n are brackets attached to the inner side of the metal part of the furnace on which the clay part rests.

o is a recess formed in the inside of the metal part of the furnace, into which the edge of the ash-pit bottom enters, and which, with lips *p*, formed in making openings *f*, hold the ash-pit bottom in place.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination, in a portable furnace, of a clay part A, having an integral grate forming its bottom, with a metal part B, having ash-pit *w* and opening *e*, substantially as set forth.

2. In a portable furnace, the combination of clay part A, having an integral grate *m*, with a metal part B, having ash-pit *w*, opening *e*, and openings *f*, substantially as described.

3. The door D, having handle I and slots *k k*, in combination with clay part A and metal part B, all substantially as set forth.

4. In portable furnaces, the combination of clay part A, having an integral grate *m*, forming its bottom, with a metal part B, having opening *e*, ears *l*, and handle *r*, substantially as described.

NATHANIEL T. EDSON.

Witnesses:
D. W. SPIES,
ANDREW HEWS.