D. C. McNeil.

Portable Furnace

No. 80,987. Patented Aug. 11, 1868.

Fig. 1.

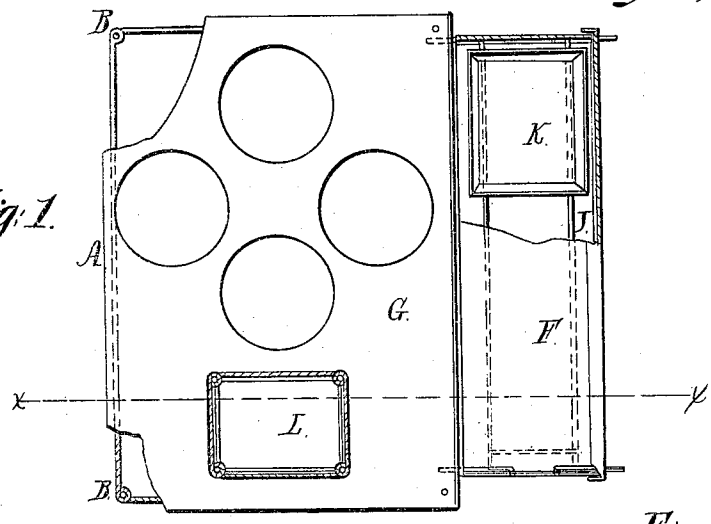


Fig. 4.

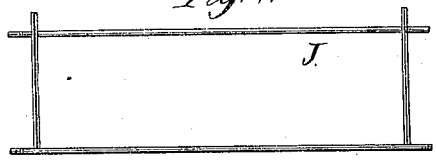


Fig. 2.

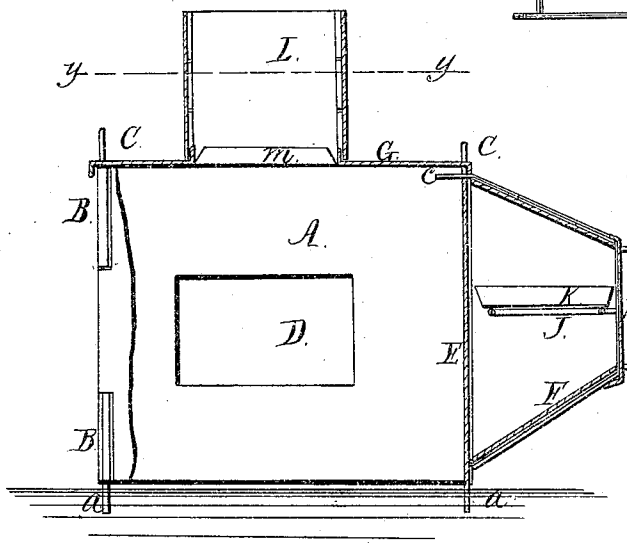
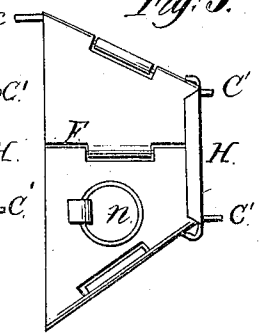


Fig. 3.



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Letters Patent No. 80,987, *dated August* 11, 1868; *antedated August* 1, 1868.

CAMP-STOVE AND OVEN.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, D. C. McNEIL, of De Witt, in the county of Clinton, and State of Iowa, have invented a new and improved Folding Stove and Baker; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to a new and improved method of constructing stoves, whereby they are rendered more portable and easier of transportation, the stove being especially intended for camp use, for soldiers, trappers, and emigrants; and the invention consists in constructing the stove and the baker so that their sides may be folded together flat, occupying little more space, when packed for transportation, than would be occupied by the bare plates laid flatly on each other.

Figure 1 represents a top or plan view of the stove, partly in section, with the baker attached, the section being through the line *y y* of fig. 2.

Figure 2 is a vertical section of fig. 1, through the line *x x*.

Figure 3 is an end view of the oven or reflector, showing the manner of its construction.

Figure 4 is a view of the grate inside the oven, for the support of the baking-pans.

Similar letters of reference indicate corresponding parts.

A represents the body of the stove, which is formed of vertical plates, which are hinged together on rods at the angles, as seen at B B.

C represents the rods at the angles. These rods extend down, as seen at *a a*, fig. 2, which, when putting the stove together, are forced into the ground, the surface of the earth forming the bottom on which to build the fire.

D is the door for the introduction of the fuel.

F is the oven, which in this connection may be called a radiator. It is heated from the side plate of the stove, or by the heat which passes through the plate E, as seen in fig. 2.

This oven is formed in a similar manner to the stove itself, the sides being hinged to rods C′ at the angles, which rods extend beyond the upper plate or top, and pass through the side of the stove when in use, as seen at *c*. The corner rods of both the oven and the stove extend from the plates, so that the top plate of the stove G and the back plate of the oven H are slipped over them, as seen in the drawing. These plates are readily detached when the stove and oven are to be folded up for transportation.

J is the grate for the oven, which is placed as seen in fig. 2, and also in the sectional portion of fig. 1, where it is seen supporting the baking-pans K.

L represents the chimney.

m is a collar on the top plate of the stove, which the chimney or pipe L sets over in the usual manner.

The chimney L is formed of plates jointed to rods at the angles, the same as the body of the stove and the oven, so that, when detached from the stove, it will fold down flat, like the other parts.

The ends of the oven are formed of two plates, which are jointed together in the middle, which allows the oven to be folded in less space than it otherwise would be.

n represents rings at each end of the oven, for convenience in handling.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The folding stove, when its sides are hinged together at the angles by the vertical rods C, extending below the stove at *a*, for the purpose of being inserted into the ground, whereby the ground is made to form the bottom of the stove, upon which the fire is built, as herein shown and described.

2. In combination with the folding stove, having the open bottom, the chimney L, when composed of sections hinged together, and adapted to fold down upon the top plate G, as herein shown and described.

3. The radiating oven F, constructed as described, its top and sides hinged together at the angles, and secured to the back H, and to the back plate of the stove, by the extended pintles of the hinges C′ *c*, as herein described, for the purpose specified.

The above specification of my invention signed by me, this 7th day of September, 1867.

D. C. McNEIL.

Witnesses:

S. H. SHOEMAKER,

DAN'L LANGAN.