

W. H. WIESTER.  
Coal-Oil Cooking-Stove.

No. 223,829.

Patented Jan. 27, 1880.

Fig. 1.

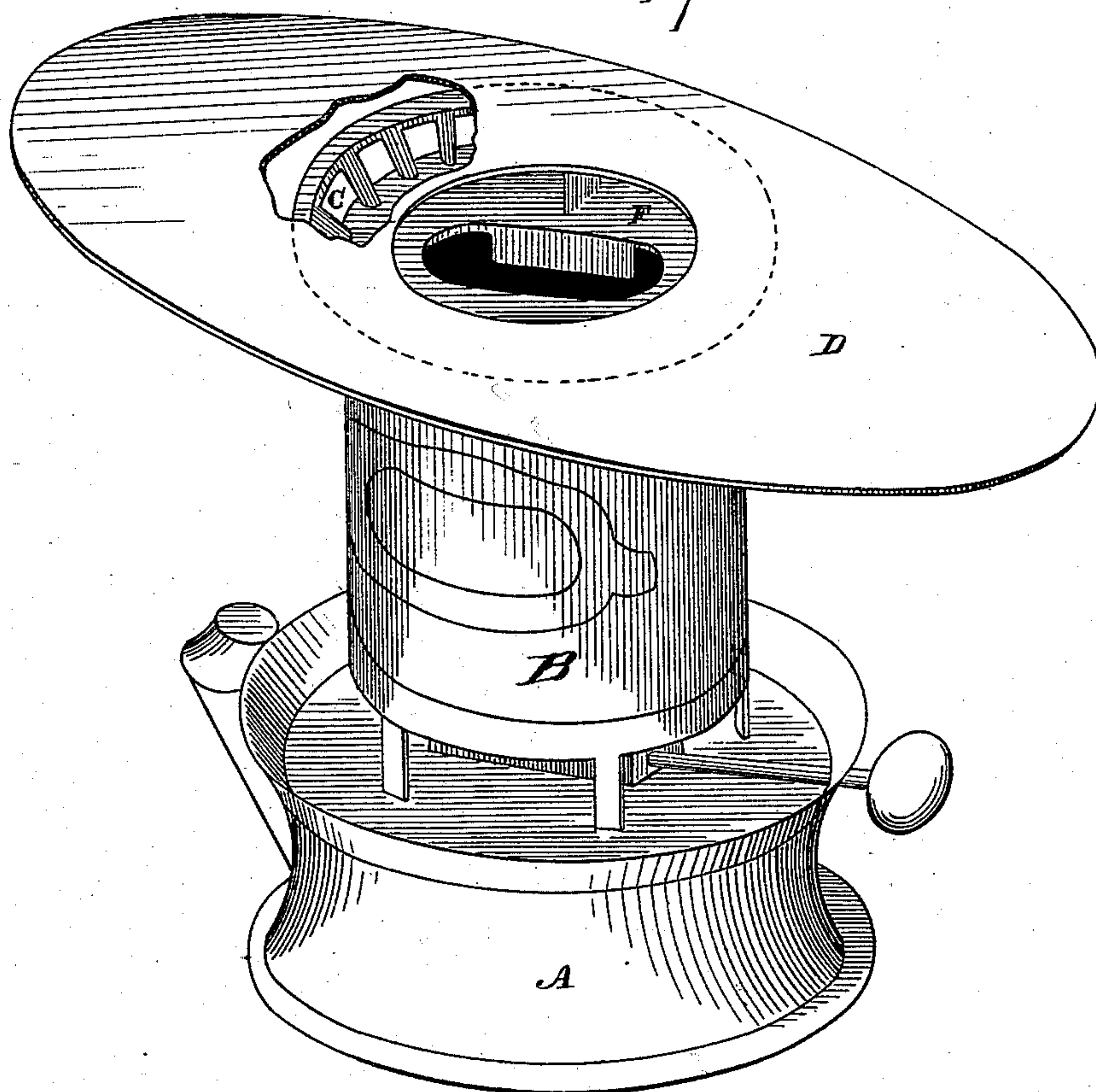
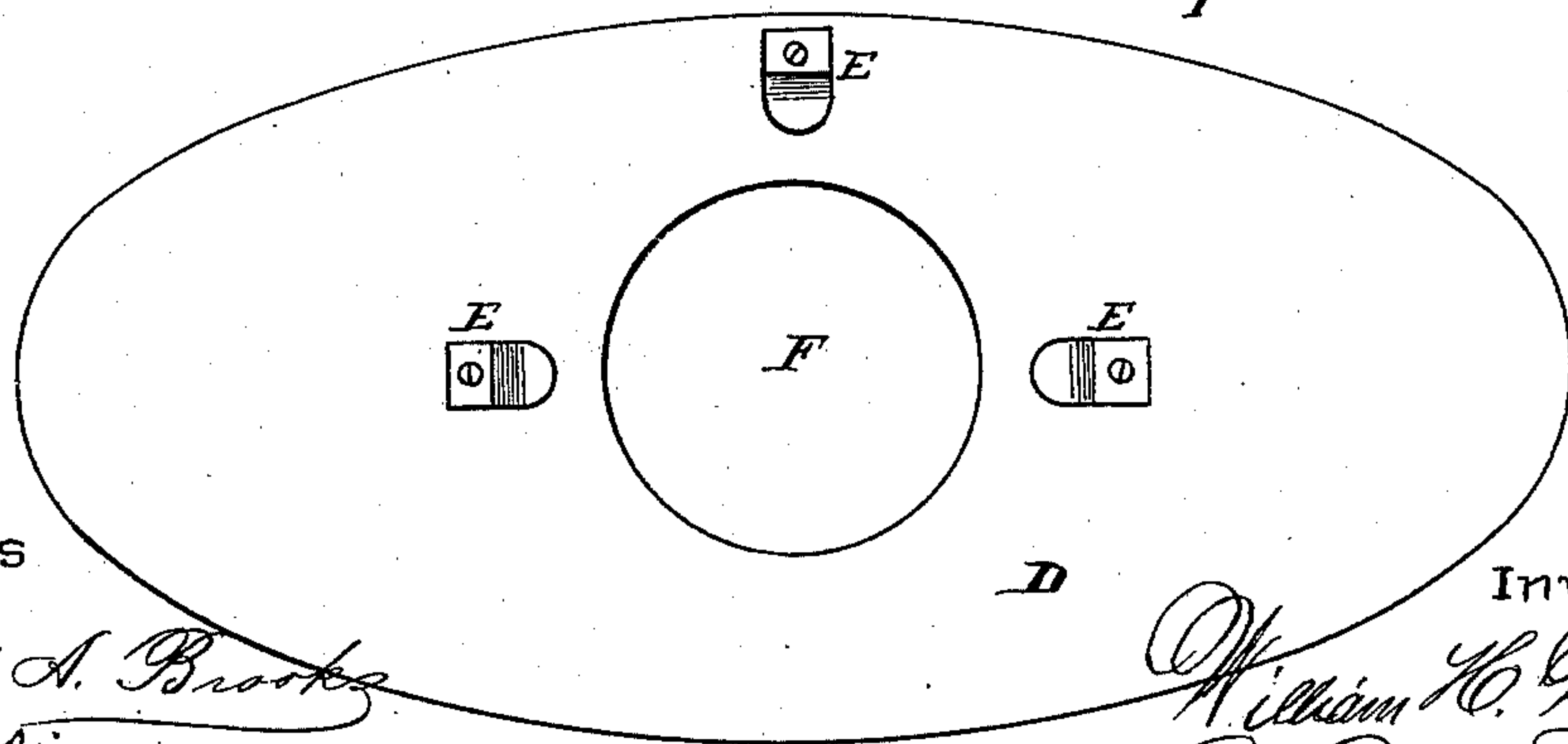


Fig. 2.



Witnesses

*Frank A. Brooks*  
*J. H. House*

Inventor

*William H. Wiester*  
*By Dewey & Co.*  
*attys*



# UNITED STATES PATENT OFFICE.

WILLIAM H. WIESTER, OF SAN FRANCISCO, CALIFORNIA.

## COAL-OIL COOKING-STOVE.

SPECIFICATION forming part of Letters Patent No. 223,829, dated January 27, 1880.

Application filed November 21, 1879.

*To all whom it may concern :*

Be it known that I, WILLIAM H. WIESTER, of the city and county of San Francisco, and State of California, have invented an Improvement in Coal-Oil Cooking-Stoves ; and I hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to certain improvements in that class of oil-stoves which are employed for cooking purposes, and in which a chimney is used having an opening or openings at or near the top for draft purposes.

My invention consists in the application of a single-sheet extension or heating plate to the top of this chimney in such a manner that when not in use and when cooking is not going on the plate will not be heated, but when cooking is being done and it is necessary to heat this plate to keep articles warm the heat will be deflected so as to heat it from below without in any way affecting the draft, as will be more fully described by reference to the accompanying drawings, in which—

Figure 1 is a view of a stove with my plate attached. Fig. 2 is a bottom view of the plate.

When oil-stoves are employed for cooking purposes it is necessary, if more than one article is to be cooked, to employ some means for keeping those hot which have been cooked until all is ready. For this purpose various extensions have been made around the base of the stove, by which heat that radiates from the sides of the chimney may in a measure be utilized for this purpose ; but I have found that by placing the articles to be kept warm directly over the ascending heat I can collect and utilize the same to better advantage than can be accomplished by placing the articles around the sides of the chimney and endeavoring to collect the heat radiating therefrom. I therefore construct my plate so as to be secured to the top of the chimney, and so that the heat escaping through the draft-openings around the top will heat the plate whenever cooking is being done.

A is the body or base of an oil-stove of any description, and B is the extension or chimney through which the heat and flame must pass, and which is so constructed as to provide suf-

ficient draft to prevent smoking and to secure as perfect combustion as possible.

The chimney in all cooking-stoves must have, in addition to a central opening at the top, a number of small holes or openings, C, at and around the top, so that when cooking is being done over this central opening a draft can be maintained through the passages C and the perfect combustion kept up.

D is my heating-plate, which is made of a single sheet of metal sufficiently stiff to support itself and whatever may be placed upon it where it projects beyond the top of the stove. In order to secure this plate to the stove-top I have in the present case shown three clasps, E, which are secured to the plate and bent so as to catch beneath the rim at the top of the chimney, as shown, two of the clasps being placed on opposite sides, while the third is at a point in the circle between the two, so that it will act as a stop when the top is put on.

In some cases a perforated lug upon each side is adapted to receive a rod, which also passes through openings in the chimney-top, and thus secures it. Various other fastenings may be employed adapted to the particular form of the top to which it may be applied.

The plate D has a central hole or opening, F, through which the heat ordinarily escapes and upon which utensils may be placed for cooking purposes. When no cooking is being done the heat will escape through this opening without heating the plate D ; but when the opening F is closed by a vessel or otherwise the heat will escape through the holes C and be projected beneath the plate, thus heating it rapidly and effectively from below.

By this construction I provide a heating-plate which will only be heated when needed, and will be kept cool at all other times.

I am aware that fixed extensions have been formed around the base of an oil-stove, so that articles placed on said extensions may be heated by radiation from the sides of the chimney.

I am also aware that extension-tops have been formed with a chamber into which the heat is introduced, so that the entire chamber is always heated when the stove is in use. I do not therefore claim, broadly, an extension-

shelf; neither do I claim any inclosed extension-chamber; but,

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

1. A single plate, D, having clamps E, by which it is adapted to be secured to or removed from the top of the chimney of an oil-stove, and having a central perforation, F, for the escape of the products of combustion, so that the plate is heated only when this hole is closed, substantially as herein described.

2. The single plate D, with its central opening, F, corresponding with that of the chimney,

and the clamps E, whereby it is adapted to be secured in place, in combination with the chimney B of an oil-stove, having a central opening and the surrounding perforations C, whereby the plate may be kept cool when the central hole is open, and is heated when it is closed, substantially as herein described.

In witness whereof I have hereunto set my hand.

W. H. WIESTER.

Witnesses:

GEO. H. STRONG,  
S. H. NOURSE.