

C. W. SMITH.

Cooking Stove.

No. 80,230.

Patented July 21, 1868.

Fig. 1.

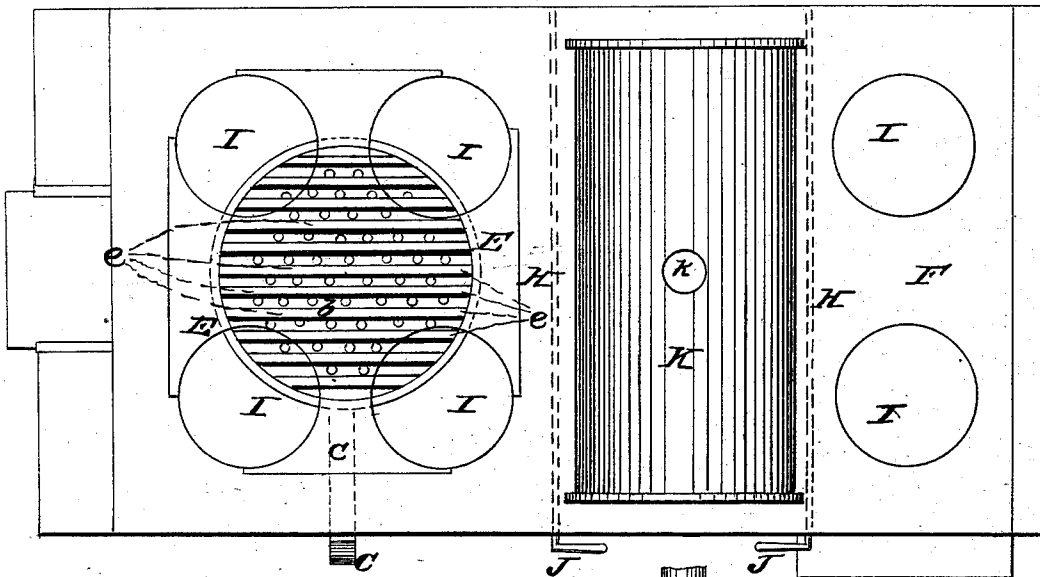
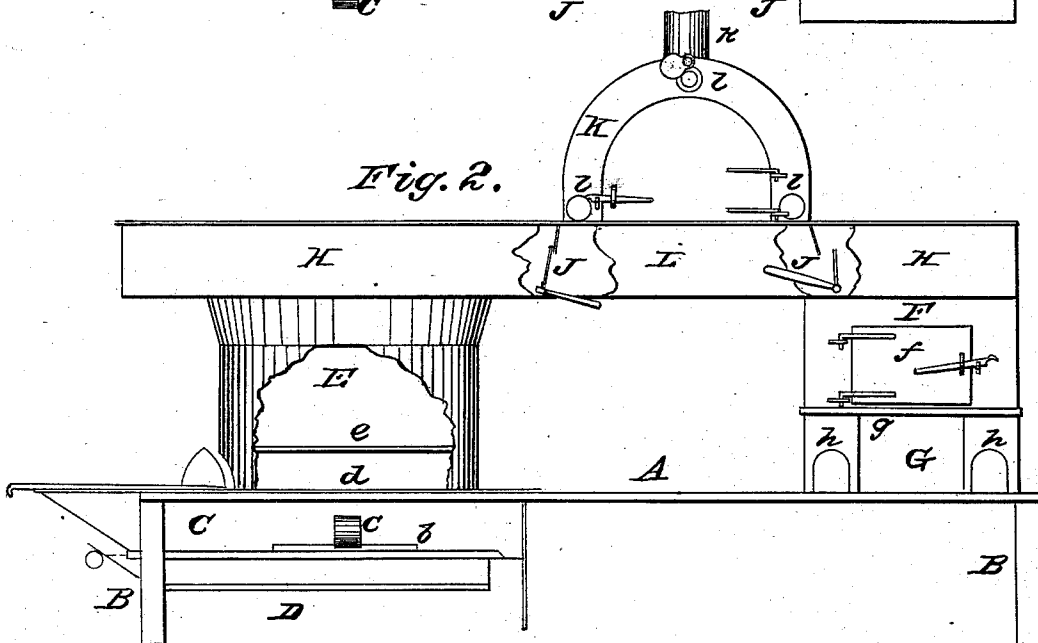


Fig. 2.



Witnesses:

Geo. Green
Wm. Carlson

Inventor.

Charles W. Smith
By Attnys
J. B. Woodruff & Son

United States Patent Office.

CHARLES W. SMITH, OF HORNELLSVILLE, NEW YORK.

Letters Patent No. 80,230, dated July 21, 1868.

IMPROVEMENT IN COOKING-STOVES.

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, CHARLES W. SMITH, of Hornellsville, in the county of Steuben, in the State of New York, have invented certain new and useful Improvements in a Combination for Wood or Coal-Burning Cook-Stoves; and the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a plan or top view of the cook-stove.

Figure 2 is a side elevation of the same, showing the two arrangements of the fire-boxes for wood or coal, for the convenience of summer and winter cooking.

The object of my invention is to provide in a cook-stove all of the requisite means for much or little fire, to be used for cooking purposes, so that in the winter, when all the heat is desirable for warming the room, a large coal fire can be made in the cylinder, and in the summer, when it is desirable to do the cooking, and have as little heat as possible, a fire of light dry wood can be built in the fire-box at the other end of the stove, and be brought to bear more closely with the cooking-utensils and the oven, so that comparatively but a small amount of heat will be radiated into the room.

My invention consists in providing a shallow square fire-box in one end of a cook-stove, with a space underneath, which may be used for drying small wood, chips, or any other thing suitable for a quick summer fire, and having a large flat heating-top extending over a cylindrical coal-burning fire-box in the other end, with a coal-sifter underneath the grate, and ash-drawer so that the fine coal is separated from the ashes and replaced in the cylinder without being taken away from the stove.

That others may be enabled to make and use my improved combination cook-stove, I will describe it more fully, referring to the drawings, and to the letters marked thereon.

The base, A, is a long flat-plate casting of any size desirable, supported at or near each corner on legs B B, having at one end a sunken bottom, C, in which is fitted a coal-sifter, *b*, with a handle, *c*, extending out on one side for operating it. Underneath the coal-sifter is drawer, D, to receive the ashes, and remove them.

In the base-plate A, at one end, is a circular opening, *d*, over the coal-sifter, on which is placed a large cylindrical coal-fire box, E, with a grate, *e*, in the usual manner. At the other end of the base-plate A, is placed the wood-fire box F, with a door, *f*, in the end for putting in long wood; the fire-box F being shallow only about one-half of the depth of the cylinder E. The bottom plate *g*, forming the hearth of the wood-fire box, is elevated on arches *h h*, leaving a considerable space, G, between it and the base-plate A, in which kindling-wood or anything may be put to dry, or be kept off the floor out of the way.

Above and resting on the top of both the wood-fire box F, and the cylindrical coal-fire box E, is the long flat portion or box H H, which makes the top of the stove for both fires, and covers over the surface of the base-plate A, so as to leave a large space between the plate and the top portion of the stove around and between the cylinder E and box F, to place things on for keeping warm. The top of the stove, H H, may have any desired number of holes, I I I, with lids, both in the region of the coal and wood fireplaces for boilers, or kettles, &c.

The top portion of the stove H H being divided into three compartments, across between the two fire-boxes, with openings in the divisions to be closed by hinged dampers J J, as required, over the central compartment L is the elevated arched oven K, with doors in each end, also holes, *l l l*, for cleaning around the oven, on the top of which is the socket *k* for the stove-pipe, so that, by closing one of the dampers, either fire-box may be shut off from communicating with the oven, or, by opening both of the dampers, both fire-boxes are in communication. The dampers also serve the purpose of regulating the draught in both of the fire-boxes by closing or partly closing one or the other, as desired.

Thus it will be seen that all of the requisites necessary for a practical summer and winter cooking-stove are combined in one, as also the other great conveniences of sifting the ashes from the fine coal before taken from the stove, and places for drying and keeping fuel for a speedy use, and warming things generally in winter.

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

The base A, cylinder coal-fire box E at one end, and a wood-fire box, F, elevated on arches *h h* at the other, as constructed and arranged, in combination with the top H H, dampers J J, and oven K, operating in the manner as and for the purpose herein set forth.

In testimony whereof, I hereunto subscribe my name in the presence of—

CHARLES W. SMITH.

Witnesses:

J. W. NEAR,

WM. H. INGSTRUM.