

H. W. CAMPBELL.
Stove-Pipe Shelves.

No. 149,439.

Patented April 7, 1874.

Fig. 1.

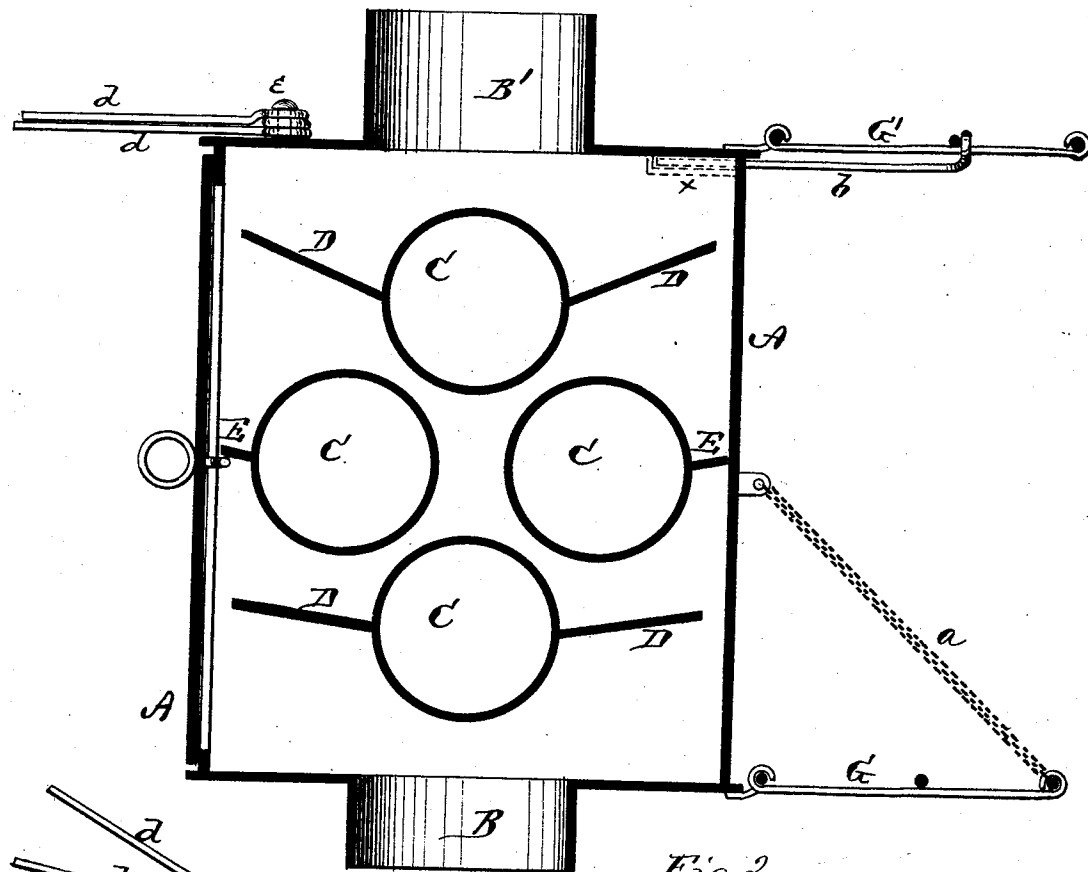
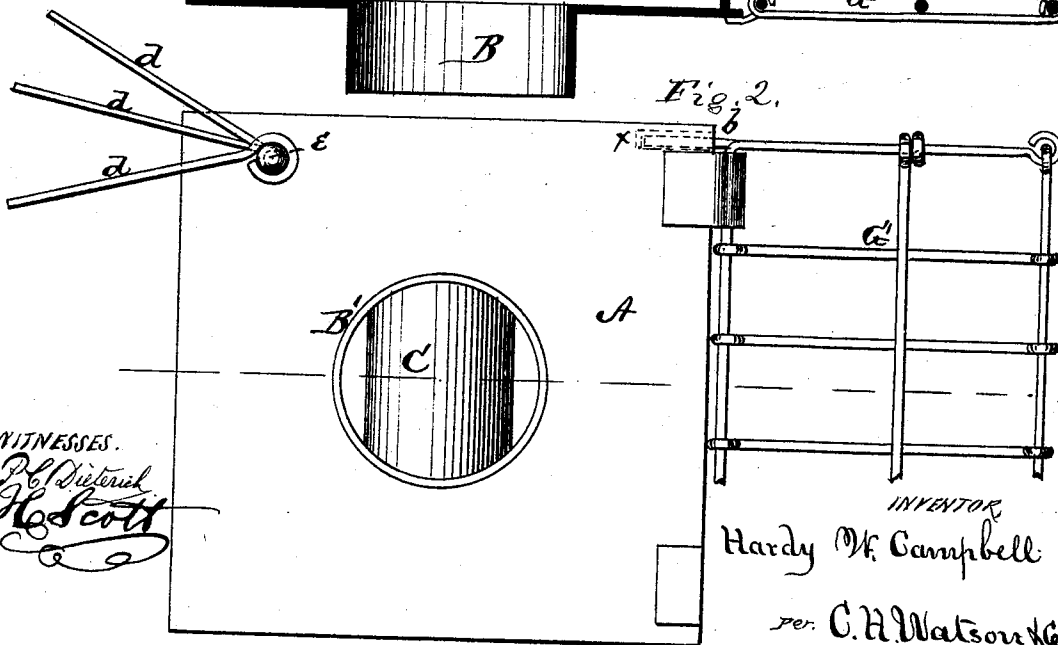


Fig. 2.



WITNESSES.

R. P. Dietrich
H. Scott

INVENTOR,

Hardy W. Campbell

per. *C. H. Watson & Co.*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

HARDY W. CAMPBELL, OF MONTGOMERY CENTRE, VERMONT.

IMPROVEMENT IN STOVE-PIPE SHELVES.

Specification forming part of Letters Patent No. **149,439**, dated April 7, 1874; application filed January 9, 1874.

To all whom it may concern:

Be it known that I, HARDY W. CAMPBELL, of Montgomery Centre, in the county of Franklin and State of Vermont, have invented certain new and useful Improvements in Stove-Pipe Shelves; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The nature of my invention consists in the construction and arrangement of stove-pipe shelves, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a longitudinal vertical section, and Fig. 2 a plan view, of my invention.

A represents a square case, of any suitable dimensions, provided with a short tube, B, in the bottom, to fit over the pipe collar on the stove, and with a short pipe, B', on the top, over which the stove-pipe is to fit, so that the products of combustion must pass through said case from the stove to the stove-pipe. Through the case A are arranged horizontal tubes or flues C C, substantially in the manner shown in Fig. 1, or in any other suitable manner that will answer the same purpose—namely, to increase the radiating surface. To the sides of the top and bottom flues are attached wings D D, to throw the heat outward to the sides of the case; and to the outer sides of the middle flues are attached cut-off wings E E, which fill the space between said flues and the sides of the case, thus cutting off the heat at these points, and cause it to pass up between said flues. All the wings, D D and E E, extend the whole length of the flues.

The heat, &c., entering the case A from the stove spreads under the bottom flue, and is deflected by the bottom wings D D to the sides

of the stove, where it passes around said wings, and being cut off by the wings E E from passing straight up, finds its way between the bottom flue and the two middle flues, then up between the middle flues under the bottom of the top flue, where it is again deflected to the sides of the case by the top wings D D. After passing around these latter wings it passes through the pipe B' into the stove-pipe.

At the lower edge of the case A at one side is hinged a frame or bracket, G, which is supported in a horizontal position by means of chains *a a*. At the upper edge on the same side of the case is hinged a similar skeleton shelf or frame, G', which is supported in a horizontal position by means of a rod, *b*, on each side, said rod being formed with a ring or loop at the outer end, sliding on the side bar of the shelf, and the inner end of the rod sliding in a guide, *x*, on the side of the case.

These shelves may be used for keeping food warm, drying, and other purposes. When not in use, the bottom shelf is elevated against the side of the case, and the rods *b* drawn out of the guides *x*, when the top shelf falls down and holds the bottom shelf in place.

On top of the case, for convenience, may be pivoted a number of bars, *d d*, by a single bolt or pivot, *e*, which form a towel or clothes rack, and when not in use can be thrown out of the way on top of the case.

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

The shelf G' provided with sliding rod *b*, and shelf G provided with chain *a*, in combination with the heat-generator A, the several parts being arranged as and for the purpose specified.

In testimony that I claim the foregoing as my own, I affix my signature in presence of two witnesses.

HARDY W. CAMPBELL.

Witnesses:

C. C. MARTIN,
HEMAN HOPKINS, Jr.