W. L. HESS.

Stove-Pipe Shelf.

No. 204,570. Patented June 4, 1878.

Fig. 1.

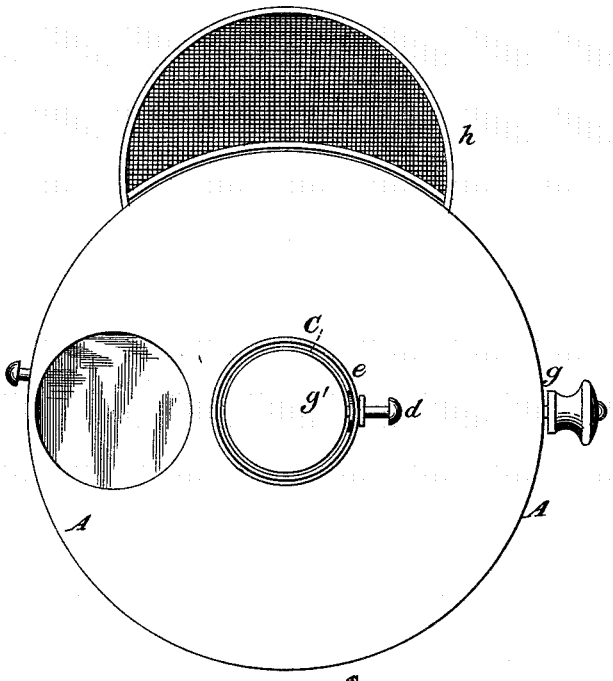


Fig. 2.

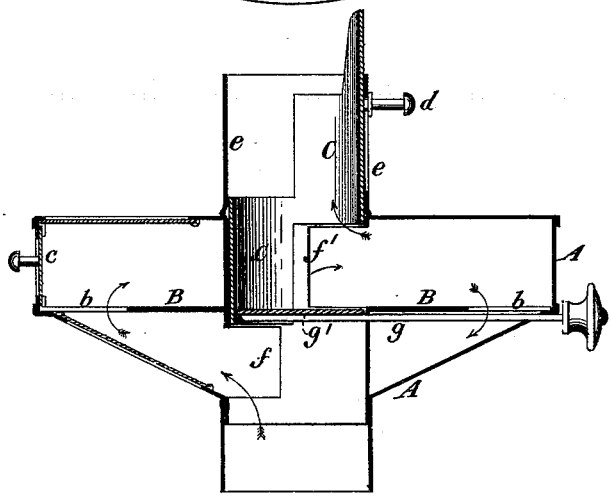
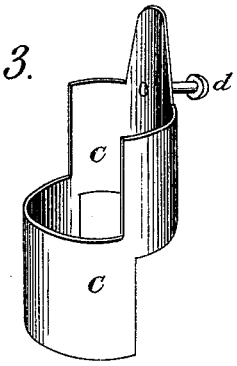


Fig. 3.



Witnesses.

A. Ruppert,

S. T. Armstrong

Inventor.

Wm L. Hess

per Edson Bros

Atty's.

UNITED STATES PATENT OFFICE.

WILLIAM L. HESS, OF BELLE PLAINE, IOWA.

IMPROVEMENT IN STOVE-PIPE SHELVES.

Specification forming part of Letters Patent No. **204,570**, dated June 4, 1878; application filed December 14, 1877.

To all whom it may concern:

Be it known that I, WILLIAM L. HESS, of Belle Plaine, in the county of Benton and State of Iowa, 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, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification, and in which—

Figure 1 is a plan view of my stove-pipe heater or shelf. Fig. 2 is a vertical section thereof. Fig. 3 is a detached perspective view of the tubular valve or cut-off for cutting off the passage of heat to the shelf.

Corresponding parts in the several figures are denoted by like letters.

This invention relates to certain improvements in stove-pipe heaters or shelves; and it consists in the employment, in connection with a drum or cylinder having a horizontally-dividing perforated partition and pipe-passage valve or damper, of a tubular valve opening and closing the upper and lower chambers of the said divided drum or cylinder, substantially as hereinafter more particularly set forth.

In the annexed drawings, A refers to a cylinder or drum, made preferably tapering upon its lower side, and adapted for attachment to a stove-pipe and stove. This cylinder or drum is divided horizontally by a partition or diaphragm, B, having a series of marginal perforations or apertures, *b b*, for the passage of heat or hot air from its lower chamber into its upper one. The top and bottom of this cylinder may be provided with isinglass-covered openings, if desired, and in one side is placed a slide or door, *c*, through which it may be cleaned.

C is a tubular valve, operated by a headed projection, *d*, projecting through an inverted L-shaped slot in a pipe-connection, *e*, upon the upper side of the cylinder. This valve fits within the passage in the cylinder between the stove and the stove-pipe, and is provided upon one side with a lower opening, *f*, and upon its opposite side with an upper opening, *f'*, the office of which is to open and close the lower and upper chambers of the divided cylinder when desired.

In the same passage, and within the tubular valve, but in no way connected with it, (the valve,) is a valve or damper, *g g'*, to cut off the direct passage of the heat or hot air to the pipe when it is desired to direct it into the cylinder or drum. Affixed to one side of this drum is a shelf, *h*, to which may be temporarily removed from the drum the heated dish or dishes.

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

1. In a stove-pipe drum having a horizontally-dividing perforated partition and a valve or damper, the tubular valve C, having the upper and lower openings *f f'*, substantially as and for the purpose set forth.

2. The combination of the drum A, perforated partition B, dividing the said drum horizontally, damper *g g'*, and tubular valve C *f f'*, substantially as and for the purpose set forth.

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

W. L. HESS.

Witnesses:
GEORGE HUSTON,
R. C. WILSON.