

I. A. SHEPPARD.  
Stove.

No. 169,050.

Patented Oct. 19, 1875.

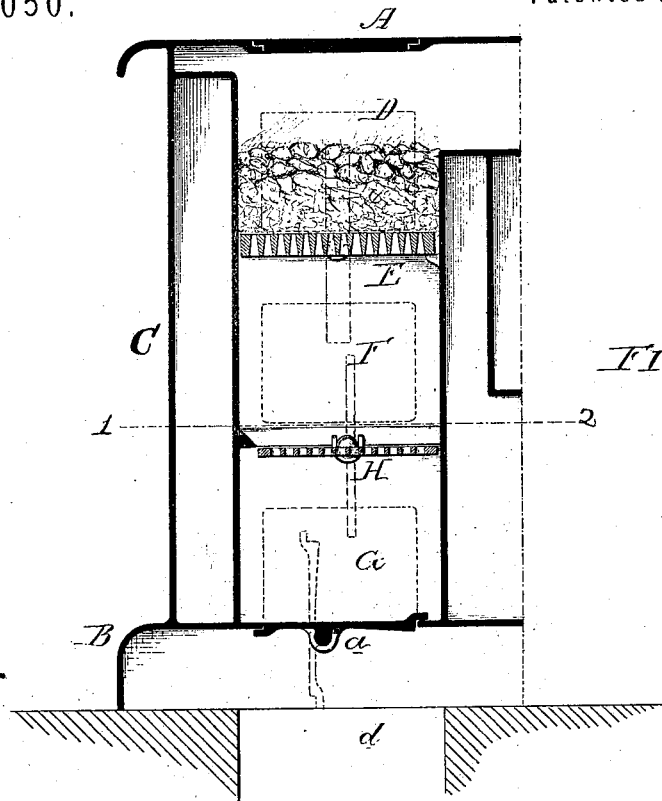


FIG. 1.

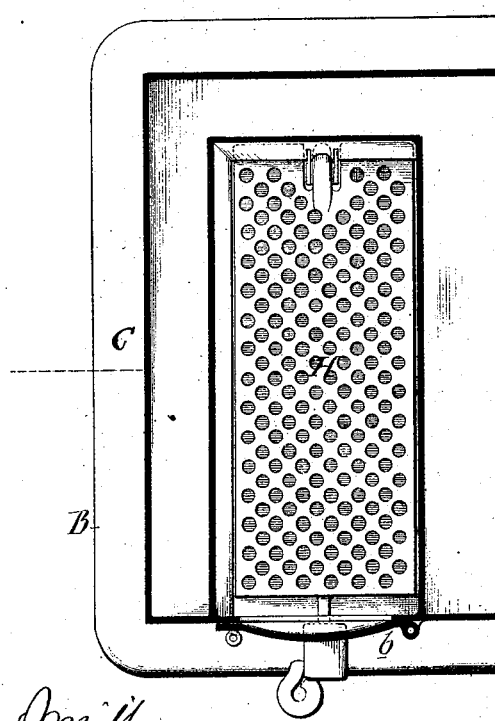


FIG. 2.

Witnesses,  
Harry Smith,  
Hubert Howson

Isaac A. Sheppard  
by his Attorneys,  
Shorn and son

# UNITED STATES PATENT OFFICE.

ISAAC A. SHEPPARD, OF PHILADELPHIA, PENNSYLVANIA.

## IMPROVEMENT IN STOVES.

Specification forming part of Letters Patent No. **169,050**, dated October 19, 1875; application filed September 17, 1875.

*To all whom it may concern:*

Be it known that I, ISAAC A. SHEPPARD, of Philadelphia, Pennsylvania, have invented a certain Improvement in the Fire-Places of Cooking-Stoves, of which the following is a specification.

The object of my invention is to afford facilities for clearing the fire-place of a cooking-stove, separating the cinders from the ashes, and readily disposing of the latter, and this object I attain in the manner which I will now proceed to describe, reference being had to the accompanying drawings, in which—

Figure 1 is a vertical section of sufficient of a cooking-stove to illustrate my invention; and Fig. 2, a sectional plan on the line 1 2.

A is the top plate of the stove; B, the bottom plate; C, the front, having the usual openings for admitting air to support combustion; and D the fire-place, furnished with a tilting-grate, E, beneath which there are two compartments, F and G, separated from each other by a sifting-plate, H, which is so hung as to admit of being tilted in the manner shown by dotted lines. The bottom of the compartment G is closed by a door, *a*, which is also so hung as to be easily tilted, the spindles of both sifter H and door *a* projecting through the side plate of the stove so as to be within reach, and easily operated by a suitable handle. Access can be had to the compartments F and G through suitable doorways furnished with doors *b*.

The stove should be placed in such a position that the compartment G will be directly above an opening, *d*, in the floor, the said

opening communicating through a suitable pipe with an ash-bin in the cellar below.

In clearing the fire-place D the grate E may be so tilted and agitated that the consumed and partially consumed fuel will fall onto the sifter H, and in some cases the whole of the fuel may be tilted onto the said sifter, where it may remain until it is convenient to separate the ashes from such cinders as may be available for fuel. This separation may be effected by vibrating the sifter, or by raking the cinders and ashes with a suitable instrument introduced through the doorway above the grate, after which the cinders may be removed prior to being used as fuel while the ashes remain in the compartment G until they become cool, when they may be discharged into the bin below by tilting the door *a*.

I do not desire to claim, broadly, the combination of an ash-sifter with the ash-pit of a cooking-stove; but

I claim as my invention—

The combination, in a cooking-stove, of the fire-place D, its grate E, the compartments F and G, the tilting-sifter between the compartments, and the tilting-door *a* in the bottom of the said compartment G, all substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ISAAC A. SHEPPARD.

Witnesses:

HUBERT HOWSON,  
HARRY SMITH.