

H. H. HUNTLEY.
Stove-Dampers.

No. 144,676.

Patented Nov. 18, 1873.

Fig 1.

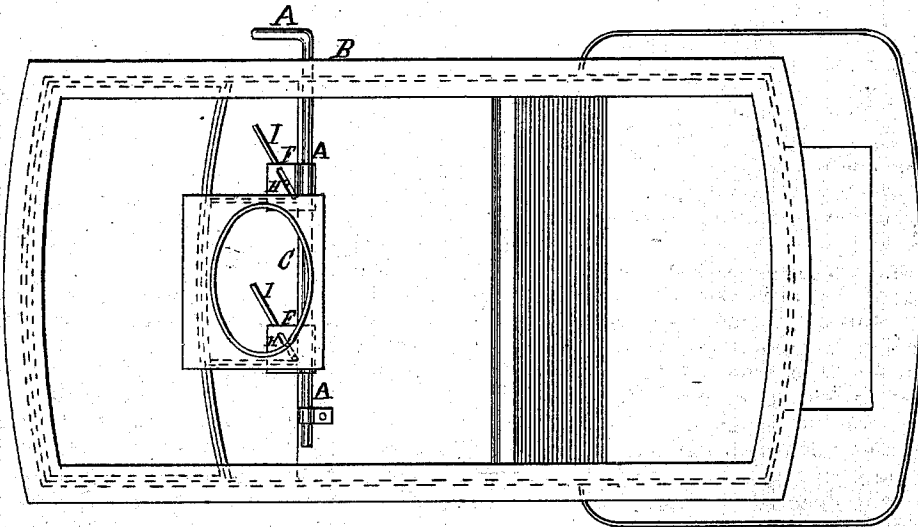


Fig 2.

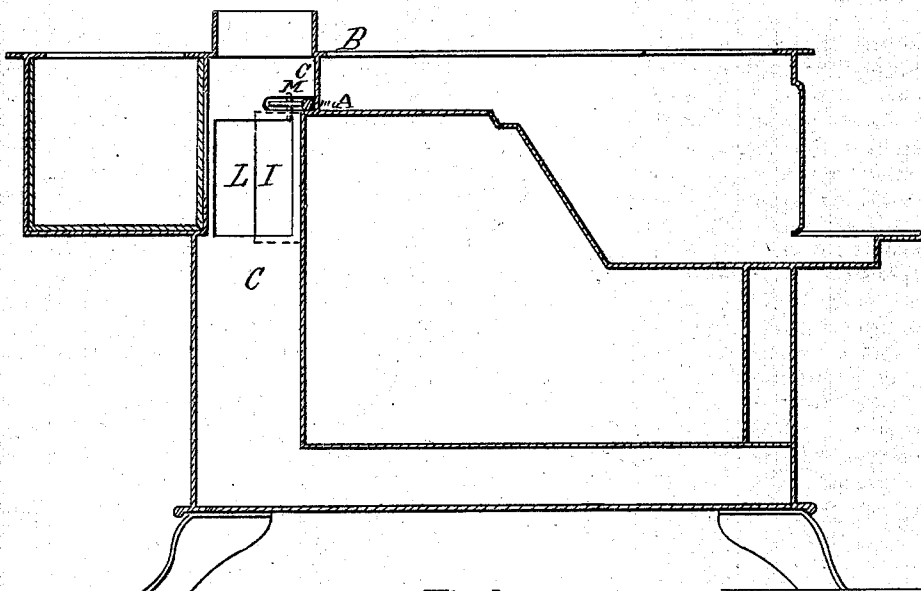
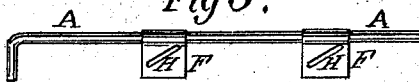


Fig 3.



Witnesses:

Chas. E. Wilson
John Williams

Inventor:

H. H. Huntley
by his atty Geo. C. Cox

UNITED STATES PATENT OFFICE.

HOSEA H. HUNTLEY, OF QUINCY, ILLINOIS, ASSIGNOR TO COMSTOCK, CASTLE & CO., OF SAME PLACE.

IMPROVEMENT IN STOVE-DAMPERS.

Specification forming part of Letters Patent No. **144,676**, dated November 18, 1873; application filed June 24, 1873.

To all whom it may concern:

Be it known that I, HOSEA H. HUNTLEY, of the city of Quincy, Illinois, have invented certain new and useful Improvements in Stove-Dampers, of which the following is a specification, reference being had to the accompanying drawings.

The invention relates to a device for opening or closing, or partially opening or closing, the apertures through which the flame or other products of combustion pass in their course from one flue or conduit to another; and consists in providing a stove with a horizontal damper-rod, working in any suitable arrangement, and furnished with plates having diagonal slots, in which work the ends of the guide-rods attached to swinging dampers, so that by operating the rod the dampers are opened or closed, or held at any desired angle.

Figure 1 is a plan view of a stove with a device embodying the elements of the invention applied thereto. Fig. 2 is a vertical central section of same. Fig. 3 is a detached view of a device embodying the elements of the invention.

In the present instance, the invention is applied to a cooking-stove, so arranged that when the dampers are opened the products of combustion shall come in contact with the outer surface of the lining of a reservoir secured to the upper part of the rear of the stove, though it is obvious that the device may be applied to stoves of almost every construction.

In the accompanying drawings, A is a damper-rod, passing horizontally through apertures in the wall of the stove B and the flue C, the rod thus being allowed to move and guided in a horizontal direction. At the proper points adjacent the sides of the flue C, the rod A is provided with the plates F, secured horizontally to the rear side of the rod in any suitable manner, and provided with the diagonal slots H of similar construction and arrangement, the flue C, adjacent to the point through which the rod A passes, being cut out so as to allow the plates F to move as the

rod is operated. The dampers I are hinged to the flue C, one on the inner and one on the outer surface thereof, in such manner as to swing in the same direction, and when closed to cover the apertures L in the flue. To the corresponding upper portions of the dampers I are secured the guide studs or standards M, the upper extremities of which protrude through the slots H in the plates F, so that as the rod A is moved the dampers I are operated.

By forcing the rod A inward, those portions of the plates F adjacent one side of the slots H come in contact with the guide studs or standards M, causing the dampers I to swing upon their hinges until they come in contact with those portions of the flue C adjacent the apertures L, which are thus closed, whereby the products of combustion are forced through the vertical and horizontal heat or draft passages. By a contrary movement of the rod A the dampers I are opened, when the flame and heat, descending the side flues O, pass through the apertures L in the flue C, coming directly in contact with the surface of the lining of the reservoir N.

It is obvious that as the rod A is drawn out or forced inward, the dampers I are respectively and proportionately opened or closed; and also that they will retain their relative position when the movement of the rod A is determined.

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

The rod working horizontally, and placed as shown, and provided with a slotted plate for operating a damper-door, substantially in the manner described and set forth.

In testimony that I claim the foregoing improvements in stove-dampers, as above described, I have hereunto set my hand and seal this 7th day of June, 1873.

HOSEA H. HUNTLEY. [L. S.]

Witnesses:

SAM. R. EMERY, Jr.,
C. P. WINCHESTER.