E. BUSSEY.

Damper for Stoves.

No. 205,050. **Patented June 18, 1878.**

Fig. 1.

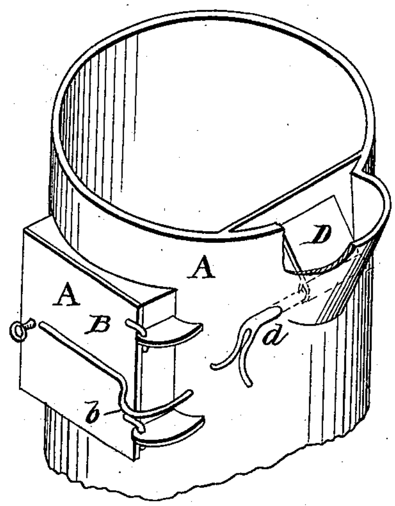
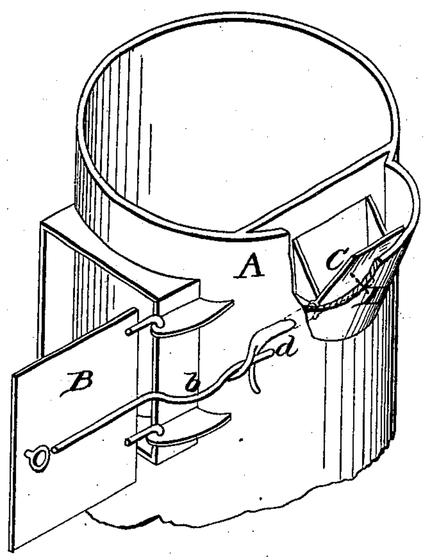


Fig. 2.



WITNESSES

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ESEK BUSSEY, OF TROY, NEW YORK, ASSIGNOR OF ONE-HALF HIS RIGHT TO CHAS. A. McLEOD, OF SAME PLACE.

IMPROVEMENT IN DAMPERS FOR STOVES.

Specification forming part of Letters Patent No. **205,050**, dated June 18, 1878; application filed February 26, 1878.

To all whom it may concern:

Be it known that I, ESEK BUSSEY, of Troy, in the county of Rensselaer and State of New York, have invented certain new and useful Improvements in Dampers for Stoves, Ranges, and Heaters, of which the following is a specification:

Figure 1 is a front elevation with parts broken away showing both stove-door and damper closed. Fig. 2 is a front elevation, with parts broken away to show the door and damper opened.

The object of this invention is to produce a simple and effective means for the automatic opening and closing of the stove-damper simultaneously with the opening and closing of the fuel feed-door of the stove; and the said invention consists more particularly in certain external attachments upon the stove-door, which are adapted, when the door is opened, to operate on certain external attachments on the damper or its handle, and cause the damper to be opened, all as will now be more in detail set out and explained.

In the accompanying drawings, A denotes a stove; B, the fuel-feed door; C, the exit for the smoke; D, the damper adapted to open and close this exit. To or upon the door B is fitted, on the outside, an arm, *b*, which, in shape and construction, is designed to act upon the projection *d* of the handle of damper D, or the handle itself, and outside of the stove may have a suitable shape for receiving the said arm *b*. When the door B is being opened or closed the arm *b*, acting on the projection *d*, will cause the damper to turn.

This invention is designed especially for use on revertible-flue stoves. In these stoves as now made it has been found that on opening the fuel-feed door the smoke and gases from the combustion-chamber would escape into the room unless the direct-draft damper had been previously opened. In practice it happens very often that this precautionary act is not done; hence no small inconvenience, not to say harm, has often been caused. By my invention this trouble will be effectively obviated.

I am aware that various means have been devised in base-burning stoves for insuring a simultaneous action of the feed-door and a valve or register in the fuel-magazine, and for the purpose of insuring an escape of the gas in the fuel-magazine into the exit-flue; but these ends have been accomplished by means of connecting-rods or hinged levers located inside the stove, and are easy of injury and readily get out of order, and difficult to reach for repair and like purposes, and both damper and door being actually connected together must of necessity be moved together; but in my invention the operative parts are placed outside the stove, and the damper can be operated independently of the door, and the draft can be opened while the door is closed; but when the door is opened the damper will of necessity also be opened. It is found of advantage in making and fitting the parts to have the door and damper thus independent of each other, and externally of the body of the stove. In this way they can be readily applied, and if they get out of order can be easily repaired. The structure of these operative parts can be of such shapes, forms, and finish as to add essentially to the appearance of the stove.

I am aware that heretofore a sliding damper has been operated to open and close by means of a rack on the stove-door, which engaged in teeth on the protruding handle of the damper; but this construction is objectionable in that it is applicable only to a sliding damper; also, it requires too much detail in the construction and adaptation of the operative parts of the device; also, the connection, though separable, is positive; and, further, the damper-handle must sometimes be projected out far beyond the body of the stove.

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

In a stove, the hinged damper D, having arm *d*, by which it may be independently operated, adapted to and combined with door B, having an outside arm, *b*, substantially as and for the purposes set forth.

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

ESEK BUSSEY.

Witnesses:
CHAS. A. McLEOD,
CHAS. M. AUSTIN.