No. 617,354. Patented Jan. 10, 1899.

J. H. REED.

DRAFT DAMPER FOR STOVES.

(Application filed Dec. 22, 1897.)

(No Model.)

Fig. 1.

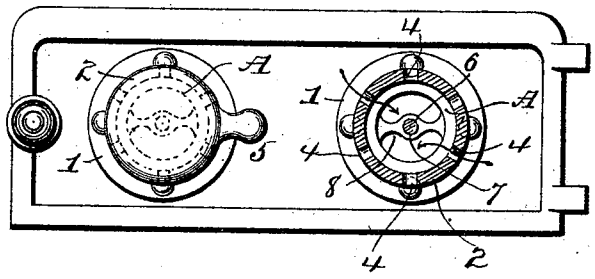


Fig. 2.

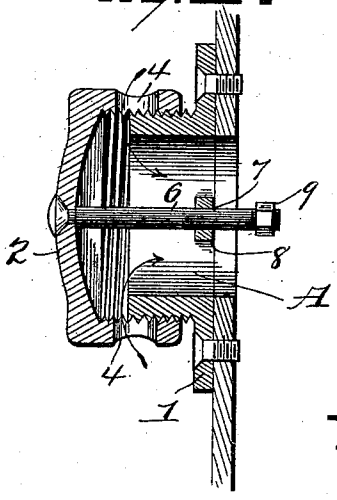


Fig. 3.

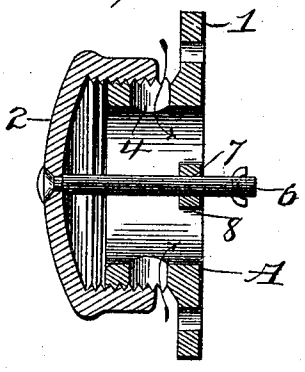
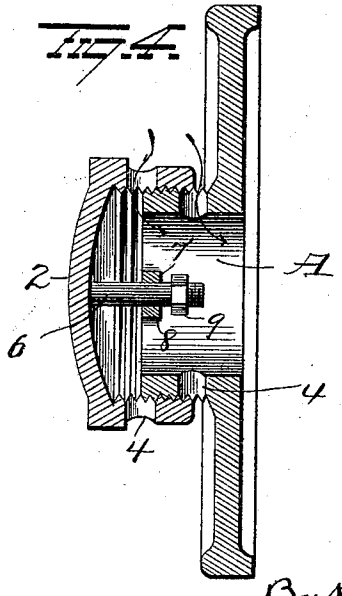


Fig. 4.



WITNESSES

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DRAFT-DAMPER FOR STOVES.

SPECIFICATION forming part of Letters Patent No. 617,354, dated January 10, 1899.

Application filed December 22, 1897. Serial No. 663,061. (No model.)

To all whom it may concern:

Be it known that I, JAMES H. REED, of Williamsport, in the county of Lycoming and State of Pennsylvania, have invented certain new and useful Improvements in Draft-Dampers for Stoves; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in draft-dampers for stoves, the object being to provide means for regulating the feed of air to support combustion when it is desired to increase or decrease the "draft;" and it consists in certain novel features of construction and combinations of parts, which will be hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in section through a stove-door, showing my improved draft-damper applied. Fig. 2 is an enlarged detail view. Figs. 3 and 4 are modifications.

A represents an inlet-tube which may be cast integral with the door or provided with a flange 1 to be bolted to the door. The inlet-tube is provided externally with a comparatively fine screw-thread, as shown. A cap 2, provided with internal screw-threads, screws upon this threaded inlet-tube, and either the tube or cap, or both, is furnished with several air-holes 4 4, as indicated, respectively, in different figures of the drawings, and the size of these holes may be regulated at any time by merely turning the cap to the right or left, accordingly as less or more air is desired. As a ready means of turning the cap it may be formed with a handle 5, or it might, of course, be constructed to take a stove-handle or wrench whereby to effect its manipulation.

It is expedient generally to provide some means to prevent the entire removal of the cap. As a simple and convenient construction for accomplishing this a pin 6, extending inwardly axially from the cap, may be employed. The pin 6 is secured rigidly to the cap 2 (preferably by the process of riveting) and extends freely through a hole 7 in the cross-bar 8, and a nut 9 may be screwed on its end inside the cross-bar to serve as a stop to prevent entire removal of the cap, or in lieu of the nut the end of the pin could, of course, be upset or a key might be dropped into a transverse hole formed in it. Of course it is understood that one or more, and generally two, of these dampers are employed. The nut 9 can be adjusted on the pin 6, so as to regulate the extent of outward movement of the cap 2.

The purpose and merits of the invention are readily discernible. The amount of the draft may be regulated to an exact nicety at any time by the manipulation of one or all of the caps employed. There is never the slightest danger of the draft becoming accidentally opened or closed, it never gets stuck, and it really presents an ornamental appearance when applied to a stove.

It is evident that many slight changes might be resorted to in the relative arrangement of parts herein shown and described without departing from the spirit and scope of my invention. Hence I would have it understood that I do not wish to confine myself to the exact construction herein shown.

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

1. The combination with a stove-door and a screw-threaded annular flange or ring projecting outwardly therefrom and communicating with an opening therein, of an internally-screw-threaded cap on said annular flange or ring and constructed and adapted to regulate and control the passage of air through said annular flange or ring, a cross-bar extending across the flange or ring, a rod rigidly secured at one end to the cap and passing freely through said cross-bar and a device attached to the free end of said rod whereby to prevent the complete removal of the cap from the annular flange or ring, substantially as set forth.

2. The combination with a door or plate having a hole therein, of a screw-threaded ring projecting outwardly from the door or plate and communicating with said hole, a cap adapted to screw on said ring and constructed and adapted to regulate and control the passage of air through said ring, a bar

extending across the ring, a rod rigidly secured at one end to the cap and passing freely through the cross-bar, and an adjustable nut on said rod whereby to regulate the extent of outward movement of the cap and prevent the complete removal of the latter from the ring, substantially as set forth.

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

JAMES H. REED.

Witnesses:
ROBERT F. ALLEN,
JOHN G. READING.