

(No Model.)

I. A. ABBOT.
DAMPER ATTACHMENT.

No. 344,151.

Patented June 22, 1886.

Fig. 1.

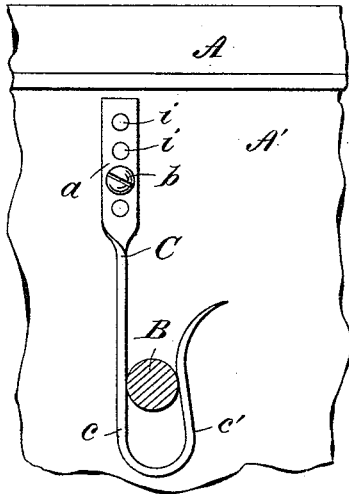


Fig. 2.

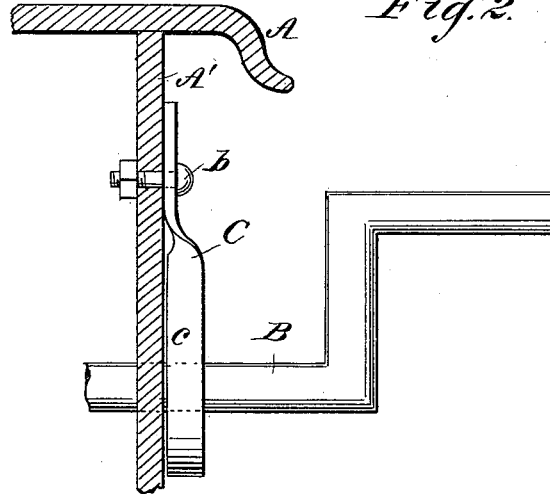


Fig. 3.

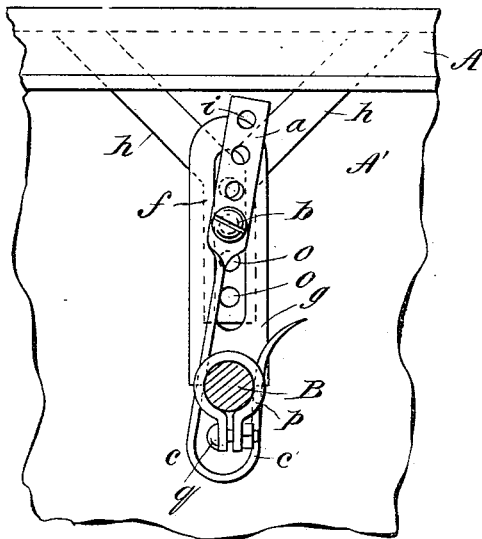
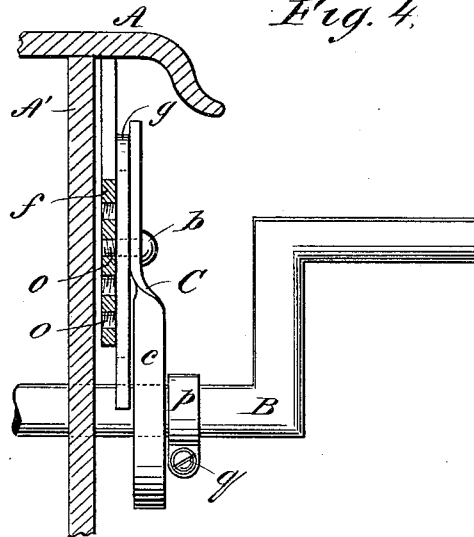
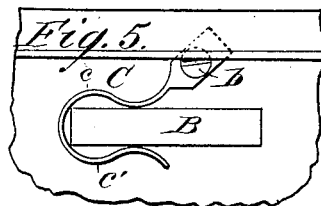


Fig. 4.



WITNESSES:

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ISAAC ATWOOD ABBOT, OF DENVER, COLORADO.

DAMPER ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 344,151, dated June 22, 1886.

Application filed July 1, 1885. Serial No. 170,363. (No model.)

To all whom it may concern:

Be it known that I, ISAAC ATWOOD ABBOT, of Denver, in the county of Arapahoe and State of Colorado, have invented a new and Improved Damper Attachment, of which the following is a full, clear, and exact description.

My invention consists, essentially, of a spring clamping attachment arranged to grasp the damper-shank and by its frictional contact therewith hold the damper in any position to which it may be moved.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a front view of my attachment, showing the same as bolted to the stove. Fig. 2 is a side view of the same. Fig. 3 is a front view of a modified arrangement for attaching the spring-clamp to the stove. Fig. 4 is a side view of the same; and Fig. 5 is a side view of the damper attachment as applied to a horizontal sliding damper-shank.

The invention will now be described in connection with the drawings, and pointed out in the claims.

A portion of the stove to which my damper attachment is to be secured is shown at A A', A being the top and A' the side of the stove through which the damper-shank B projects.

My holding attachment, which is shown at C, consists of a hook-shaped spring-clamp that is made of any metal possessing the requisite amount of elasticity. The shank *a* of this spring-clamp is preferably flattened and perforated with holes, as *i i i*, through one of which holes is passed a bolt, as *b*, by which the attachment is secured to the stove at any desired point above, below, or at one side of the damper-shank. The arms *c c'* of the spring-clamp C are formed to slightly approach each other, so that as the damper-shank B is placed between them they will be somewhat sprung apart, and the elasticity of the metal from which they are made will cause them to tightly clamp the damper-shank B. The idea of drilling more than one of the holes *i* is to allow for a proper adjustment of the clamp.

In Figs. 3 and 4 I illustrate an attachment by which my spring-clamp can be secured to the stove without drilling a hole in the stove-body, as is necessary in the construction

shown in Figs. 1 and 2. This attachment consists of a Y-shaped frame, *f*, formed with threaded holes *o o*, and a slotted bar, *g*, the lower end of which is recessed, so as to fit upon the damper-shank. When this sustaining attachment is to be secured to the stove, the bolt *b* is passed through one of the holes *i* formed in the clamp C, and also through the slot in the bar *g*, to engage with one of the threaded holes *o*. The clamp C is now passed over the damper-shank and the bar *g* placed in an upright position on said shank, as shown in Figs. 3 and 4, while the arms *h h* of the frame *f* are pressed against the under side of the top of the stove, at which time the bolt *b* is turned home, so as to securely clamp the parts together. The bottom of the bar *g* is prevented from slipping out on the shank B by a collar, *p*, that is secured to the shank by a bolt, as *q*.

In Fig. 5 I show a modification of my hook in a form adapted to be applied to the sliding shank or bar, by which certain forms of range-dampers are operated.

After the spring-clamp C has been secured to the stove and adjuster so as to properly grasp the damper-shank, it will bear upon said shank and by its frictional contact therewith hold it in any position in which it may be placed.

The clamping attachment which I have illustrated and described is simple in construction, and in operation will allow the person using it to effectually regulate the heat of the oven or the intensity of the fire.

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

1. The combination, with a stove and its damper, of a spring clamping device secured to the stove, consisting of a hook, as C, formed with a shank, as *a*, and arms, as *c c*, the damper-shank passing between said arms, substantially as described.

2. The combination, with the stove and its damper, of the frame *f*, the bar *g*, secured to the frame and bearing on the damper-spindle, and a spring clamping device, also secured to the said frame and engaging the damper-spindle, substantially as set forth.

3. The combination, with the stove and its damper-spindle having a collar, *p*, of the frame *f*, secured to the stove adjacent to the damper-

spindle, the slotted bar *g*, bearing at its lower
end on the spindle, a clamping device engag-
ing the spindle between the collar and the
slotted plate, and the bolt *b*, securing the
5 clamping device and slotted plate to said
frame, substantially as set forth.

4. A damper-regulating device for stoves,
consisting of the frame *f*, the slotted plate *G*,
and the spring clamping device consisting of

the hook *C*, having a shank, *a*, and arms *c c'*, 10
and the bolt *b*, passing through the shank and
slotted plate into the frame *f*, substantially as
set forth.

ISAAC ATWOOD ABBOT.

Witnesses:

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