

H. C. ABBOTT.
ATTACHMENT FOR REGISTER GRATES FOR THE PURPOSE OF REGULATING THE UPTAKE DRAFT.
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1,009,619.

Patented Nov. 21, 1911.

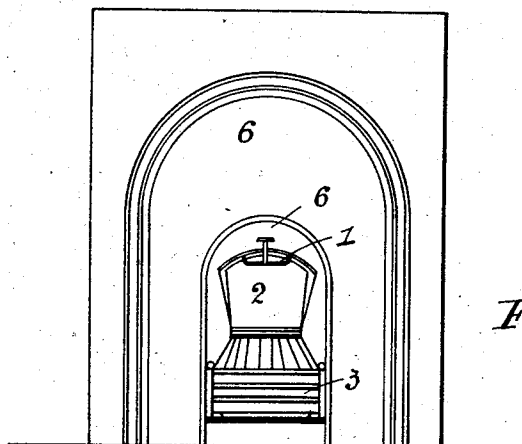


Fig. 1

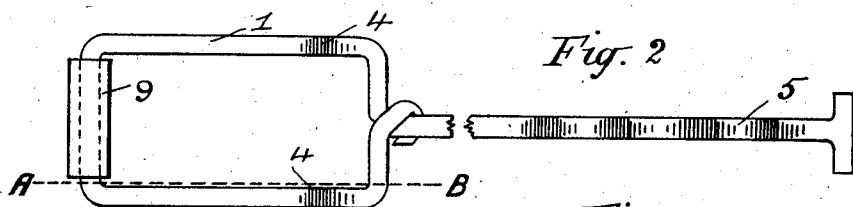


Fig. 2

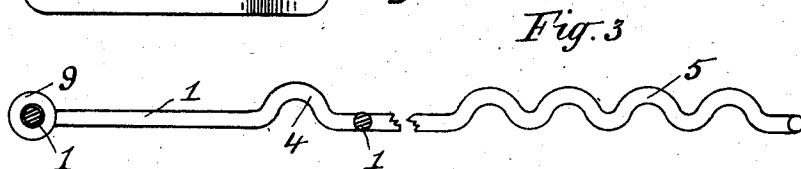


Fig. 3

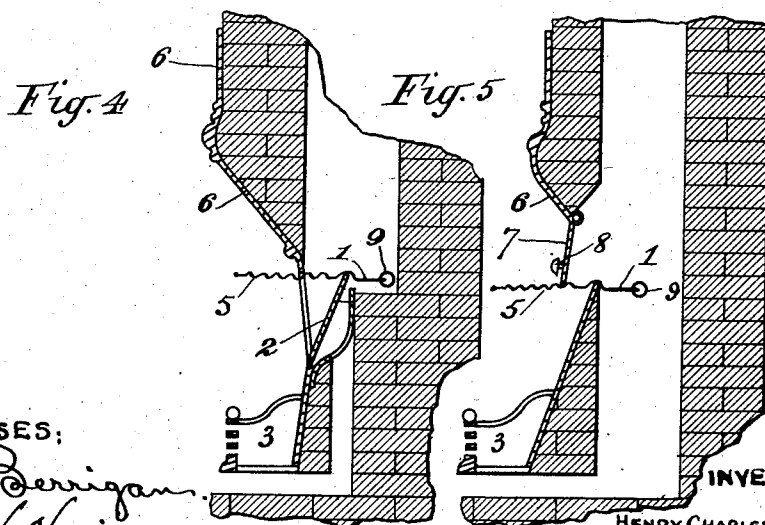


Fig. 4

Fig. 5

WITNESSES:

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ATTACHMENT FOR REGISTER-GRATES FOR THE PURPOSE OF REGULATING THE
UPTAKE-DRAFT.

1,009,619.

Specification of Letters Patent. Patented Nov. 21, 1911.

Application filed December 27, 1909. Serial No. 535,008.

To all whom it may concern:

Be it known that I, HENRY CHARLES ABBOTT, a subject of the King of Great Britain, residing at Patterson street, Launceston, Tasmania, Australia, manufacturer, have invented a new and useful Attachment to Register-Grates for the Purpose of Regulating the Uptake-Draft; and I do hereby declare the following to be a full, clear, and exact description of the same.

This invention relates to a simply constructed and easily attached contrivance to register grates for the purpose of enlarging or restricting the draft aperture from the grate to the chimney.

The contrivance consists of a light metal framework preferably rectangular in shape and provided in its forward part with inverted notches by means of which the frame may engage with and ride upon the register of the grate. The rear of the frame is weighted for the purpose of canting a notched bar, attached to and forwardly projecting therefrom, upward against the edge of the grate curtain.

In the accompanying drawing:—Figure 1 shows an ordinary register grate with the invention attached. Fig. 2 is a plan of the contrivance. Fig. 3 is a section of same on line A—B Fig. 2. Fig. 4 shows in side sectional elevation an ordinary register grate, while, Fig. 5 is a similar view of a grate in which the register plate depends from the front of the grate.

The frame 1 is preferably made rectangular and wide enough to ride upon the curved register 2 of the grate 3 by means of depressions or notches 4 formed in the forward end of 1. If the frame is made of wire these depressions may be formed by bending an inverted U into the frame on each side. Attached to and projecting forwardly from 1 is a notched bar 5, which engages the curtain 6 of the grate. If the bar be of stout wire it may be bent or folded to provide the notches for the purpose explained. A suitable weight 9 is fitted upon the back part of the frame which operates to cant

the bar 5 upward, thereby insuring that it will be always in engagement with the curtain.

When it is desired to alter the position of the register 2 of the outer end of the bar 5 is gripped and slightly depressed to disengage it from the curtain, when the register may be pushed backward or pulled forward according as required to open or close the draft aperture. When set, it will be kept in its position by again releasing the bar which, by means of the disposition of the frame and its attached weight, will contact with and engage the curtain in one of its notches or depressions.

The foregoing description applies to the ordinary grate where the register is articulated at the top of the back of the hearth, but in Fig. 5 I have shown a section of a grate in which the register 7 depends from the curtain 6 and is adjustable along an arc the radius of which is equal to the distance between the pivot of the member 7 and its lower edge. In this case the frame 1 will rest on the rigid back part of the grate, while by means of the knob 8 on register 7 the latter may be adjusted to position and left in engagement with bar 5. Thus, by means of the invention the loosely hanging register 7 may be adjusted and retained without the necessity for any parts other than those that have been described.

I claim:—

1. An attachment of the kind indicated and comprising a frame having a weight connected therewith and adapted to ride upon the register of a grate, the attachment having a plate or bar provided with notches for engagement by a grate-curtain.

2. An attachment of the kind indicated and having notches to ride upon one part of a grate fixture and a succession of notches any of which may be brought into engagement with another part of the grate fixture, said attachment provided with a weight to hold it in an adjusted position.

3. An attachment of the kind indicated, and comprising a rectangular frame having

spaced side members each having a correspondingly located downwardly opening notch, a bar extending from one end of said frame in substantial alinement therewith
5 and having upwardly opening notches, and a weight on the end of said frame opposite to said bar.

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

HENRY CHARLES ABBOTT.

Witnesses:

P. M. NEWTON,

A. HARNETT.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
