

(No Model.)

2 Sheets—Sheet 1.

J. T. AUSTIN.  
MAGAZINE STOVE.

No. 474,769.

Patented May 10, 1892.

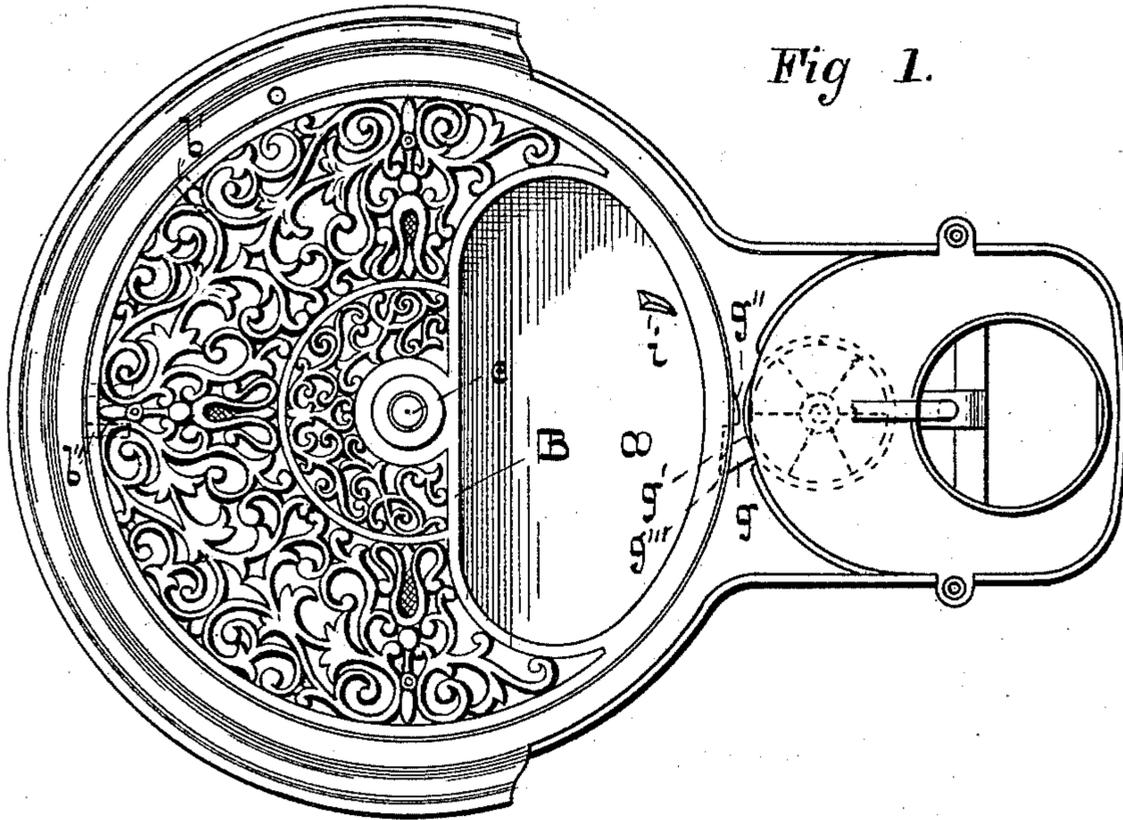
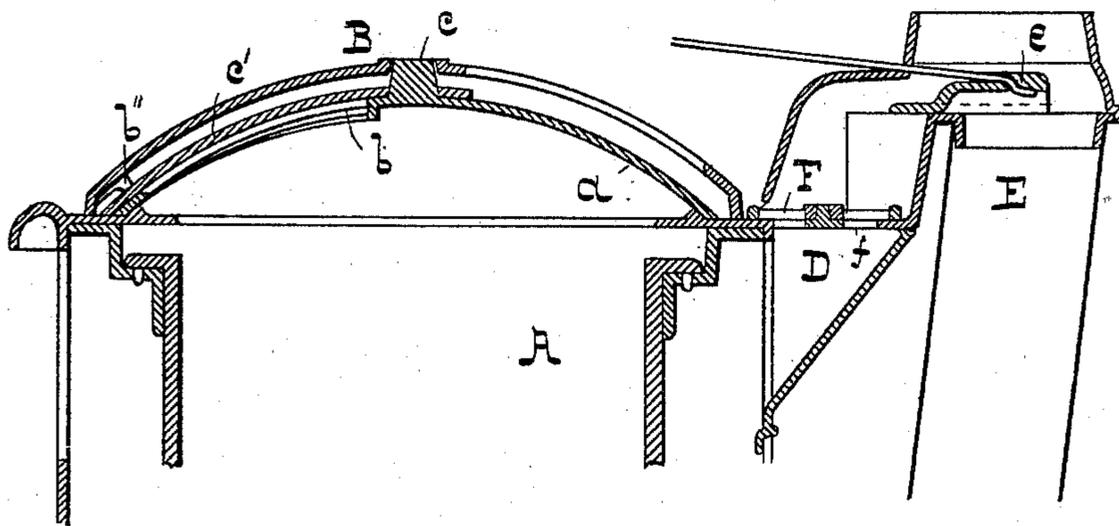


Fig 1.

Fig 2.



-WITNESSES-

X  
 Dan'l Fisher  
 C. H. Andrews.

-INVENTOR-

John T. Austin.  
 by W. H. T. Howard,  
 atty.

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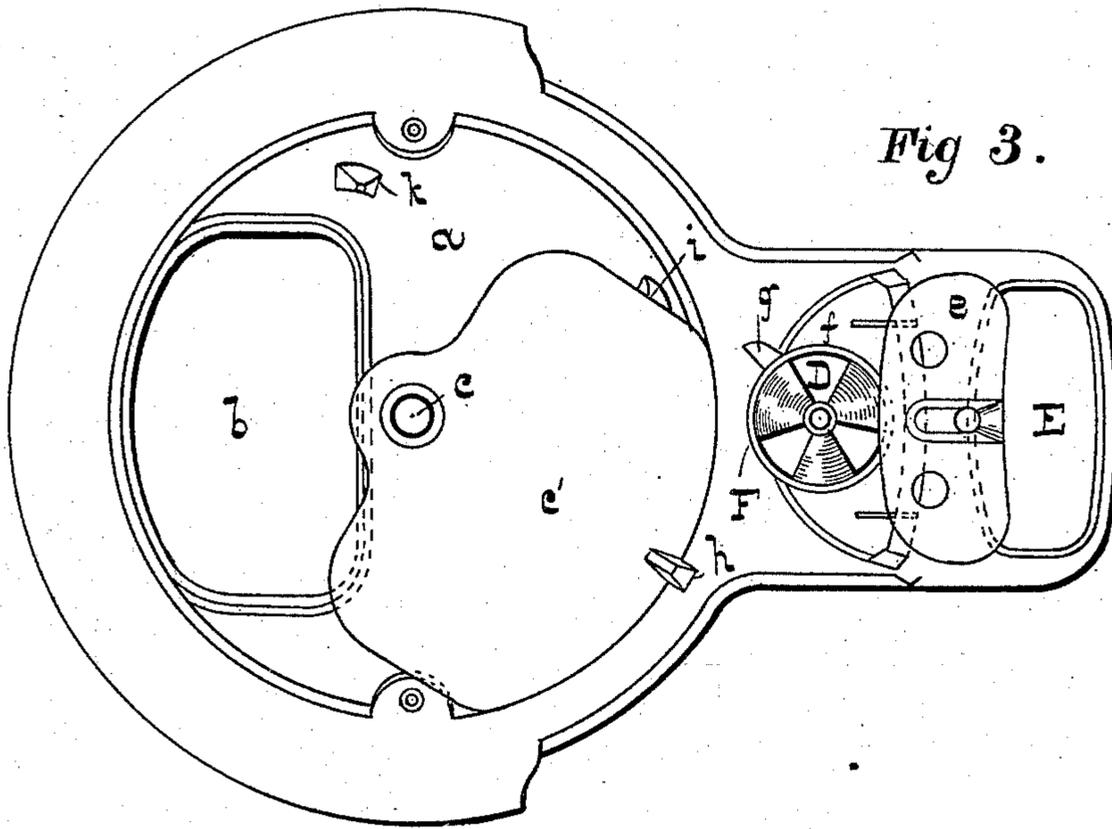


Fig 3.

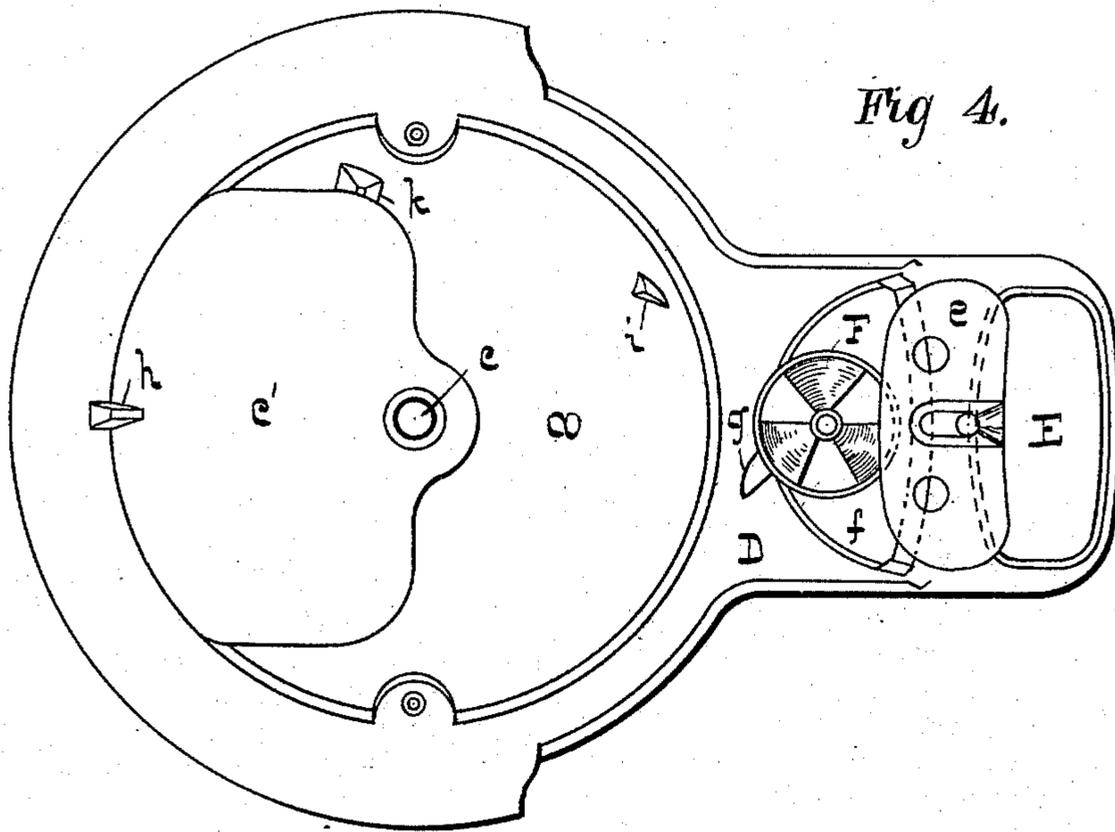


Fig 4.

- WITNESSES -

David Fisher  
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- INVENTOR -

John T. Austin,  
by W. H. J. Knud,  
atly.

# UNITED STATES PATENT OFFICE.

JOHN T. AUSTIN, OF BALTIMORE, MARYLAND, ASSIGNOR TO DAVID L. BARTLETT, THOMAS J. HAYWARD, AND EDWARD L. BARTLETT, OF SAME PLACE.

## MAGAZINE-STOVE.

SPECIFICATION forming part of Letters Patent No. 474,769, dated May 10, 1892.

Application filed December 17, 1891. Serial No. 415,326. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN T. AUSTIN, of the city of Baltimore, in the State of Maryland, have invented a certain new and useful Improvement in Magazine-Stoves, of which the following is a specification, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

This invention is designed to prevent the issue of gas, which may have accumulated in the upper part of the stove, into the room or apartment in which the stove stands when the door of the magazine is opened for replenishing the stove with coal, or for other purposes; and it consists in means hereinafter described whereby before the feed-door begins to open a register or damper in the direct draft will be opened, allowing the discharge of the accumulated gas into the escape-pipe.

Figure 1 is a top view of a fireplace-heater or magazine-stove containing my invention. Fig. 2 is a vertical central section of Fig. 1, showing the register in the direct draft open and the slide valve or damper in the indirect draft partly so. Fig. 3 is a plan with the top or ornamental cover seen in Fig. 1 removed and showing the feed-door and register open. Fig. 4 is a similar view, but showing the feed-door and register closed.

Similar letters of reference indicate similar parts in the respective figures.

A is the magazine, of which *a* is the fixed top, having the feed-opening *b*. B is a loose ornamental cover having under lugs *b'* and *b<sup>2</sup>* and adapted to revolve upon the center *c*, so as to bring the open part normally in the rear, as seen in Fig. 1, to the front, so as to uncover the feed-opening *b*. The feed-door when acted on by the cover is also made to revolve upon the center *c*, in order at the proper time to uncover the opening *b*.

The direct draft is shown by D, and the indirect draft by E. The latter is provided with the usual slide valve or damper *e*.

Within the direct draft D is centered the revolving register F, the seat for which is found on the plate *f*. The register F is provided with a lug *g*, which when the register

is closed rests in a notch *g'*, formed on the edge of the ornamental cover B and away from the projection *g<sup>2</sup>*, also formed on said edge, as seen in Fig. 1.

The feed-door *c'* has a lug *h*, and the fixed top *a* of the magazine is provided with stops *i* and *k*.

The operation is as follows: When the heater is performing its ordinary work, the direct draft must be closed and the products of combustion carried off by the indirect draft. The ornamental cover B is in the position and bears a relation to the register F seen in Fig. 1. Upon moving the ornamental cover upon its center *c* the shoulder *g<sup>3</sup>* at the end of the notch *g'* engages the lug *g* of the register and revolves the latter and opens it, allowing the gas accumulated in the upper part of the magazine to instantly escape to the direct draft. This opening of the register F is preliminary to the opening of the feed-door *c'*, which is also opened by the further revolution of the ornamental cover. This is accomplished by the under lug *b<sup>2</sup>* of the cover striking the lug *h* of the feed-door, and the cover and door revolve together until the latter strikes the stop *i* of the fixed plate *a*, as seen in Fig. 3. The opposite or closing movement of the feed-door is checked by the stop *k*. The return of the register F, when the feed-door is to be again closed, is effected by the projection *g<sup>2</sup>*, engaging in the lug *g'* of the register, and the return of the feed-door by the engagement of the lug *b'* of the cover with that *h* of the door.

It is seen that the deleterious and unpleasant escape of coal-gas into the apartment is entirely obviated by a device strictly automatic in its action. The invention also admits of the operation of the direct draft independently of the magazine-door by moving the ornamental cover only such distance as will produce that effect.

I claim—

1. In a magazine-heater, a revolving cover having lugs, a revolving door provided with a lug, and a fixed top plate having stops, combined with a register or damper in the direct

draft adapted to be opened and closed by the revolution of said cover, substantially as set forth.

2. In a magazine-heater, a fixed plate having a feed-opening, a door adapted to revolve thereon to uncover said opening, and a cover concentric with said door, said door and cover being connected so that the revolution of the cover shall revolve the door, combined with a register in the direct draft connected with

the cover and adapted to be opened thereby before the opening of the door begins, substantially as set forth.

In testimony whereof I have hereunto set my hand and seal.

JOHN T. AUSTIN. [L. S.]

Witnesses:

WM. T. HOWARD,  
JNO. T. MADDOX.