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2 Sheets--Sheet 1.

PHILLIP BRECHER.

Heating Stove.

No. 122,433.

Patented Jan. 2, 1872.

Fig. 1.

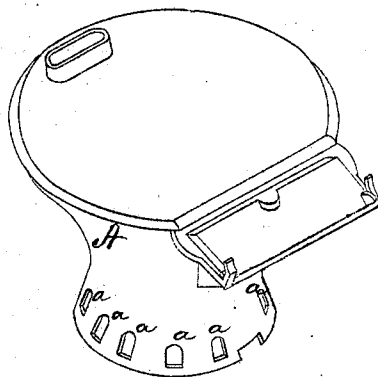
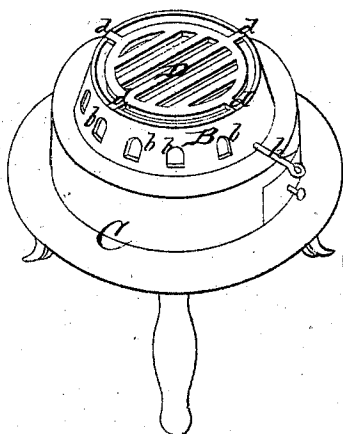


Fig. 2.



Witnesses:

Henry N. Miller,
C. L. Ewert

Inventor

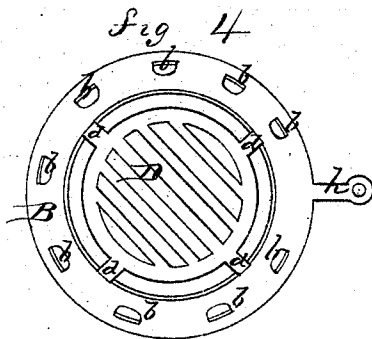
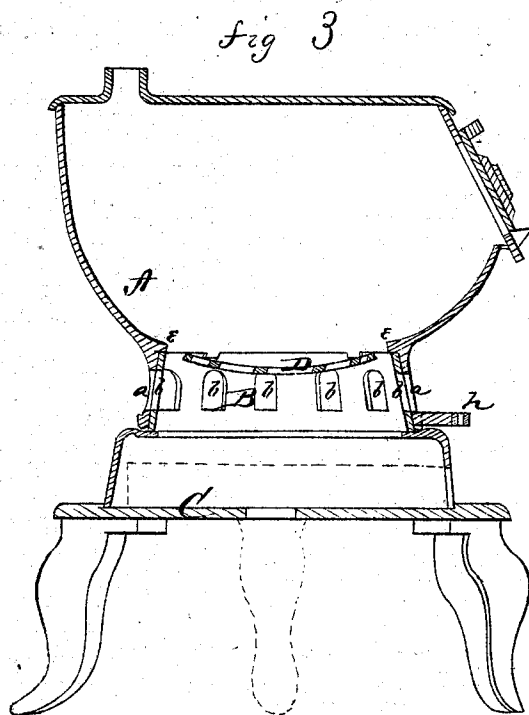
Phillip Brecher
per H. A. Mason
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Witnesses:

Frank L. Ourand.
C. L. Ewert.

Inventor

Phillip Brecher
per *Handel Mason*
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UNITED STATES PATENT OFFICE.

PHILLIP BRECHER, OF LOUISVILLE, KENTUCKY.

IMPROVEMENT IN HEATING-STOVES.

Specification forming part of Letters Patent No. 122,433, dated January 2, 1872.

To all whom it may concern:

Be it known that I, PHILLIP BRECHER, of Louisville, in the county of Jefferson and in the State of Kentucky, have invented certain new and useful Improvements in Cannon-Stoves; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

My invention relates to that class of stoves known as cannon-stoves; and it consists in the construction and arrangement of the stove-barrel with the damper and grate, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a perspective view of the stove-barrel. Fig. 2 is a similar view of the base of the stove with the damper and grate. Fig. 3 is a longitudinal vertical section of the entire stove; and Fig. 4 is a plan view of the damper and grate.

A represents the cannon-stove barrel, provided around its lower end with a series of openings, *a a*, of any suitable size and of any desired number. These openings *a a* correspond with similar openings *b b*, in a circular damper, B, placed upon the base C within the lower end of the barrel A. D represents the grate, which is made circular and concave on its upper side. It is provided on its outer edge with four arms, *d d*, which rest in countersinks made in the upper edge of the circular damper B. On the inside of the barrel A is a circumferential flange, *e*, just above the openings *a a*, and projecting over the damper B, as shown

in Fig. 3, thereby preventing the ashes from getting between the stove-barrel and the damper, keeping it always clean and in good working order.

By means of this damper and the openings in the stove-barrel any quantity of draught may be given, or it may be entirely shut off. The usual poker-hole is obviated, and all coal must necessarily fall into the ash-pan in the base below.

The damper B is provided with an arm, *h*, projecting through a horizontal slot in the stove-barrel. By the use of this arm or handle the damper may be turned backward and forward, thereby shaking the grate and letting the ashes out.

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

1. Supporting the grate of a cannon-stove upon and moving the same with a circular damper arranged within the stove-barrel, substantially as and for the purposes herein set forth.

2. The interior circumferential flange *e*, projecting over the circular damper B, substantially as and for the purposes herein set forth.

3. The combination of the barrel A with openings *a a*, circular damper B with openings *b b* and arm *h*, and the grate D, all constructed and arranged substantially as and for the purpose herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 14th day of November, 1871.

PHILLIP BRECHER.

Witnesses:

CASPAR FEIOCK,
JOHN R. McMAHON.

(154)