

SAMUEL D. DEARMAN.
Fireplace.

No. 125,938.

Patented April 23, 1872.

Fig. 1.

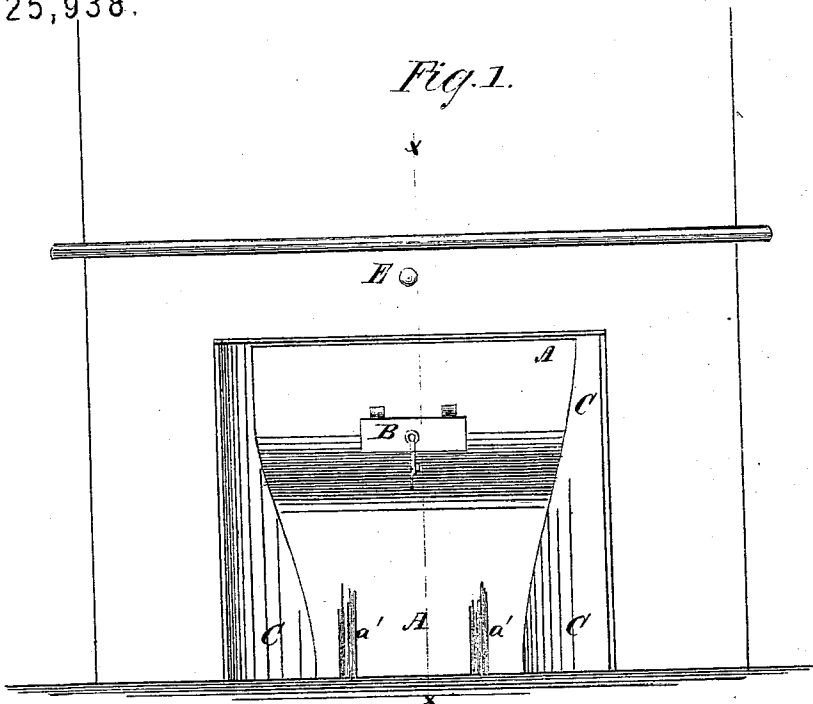
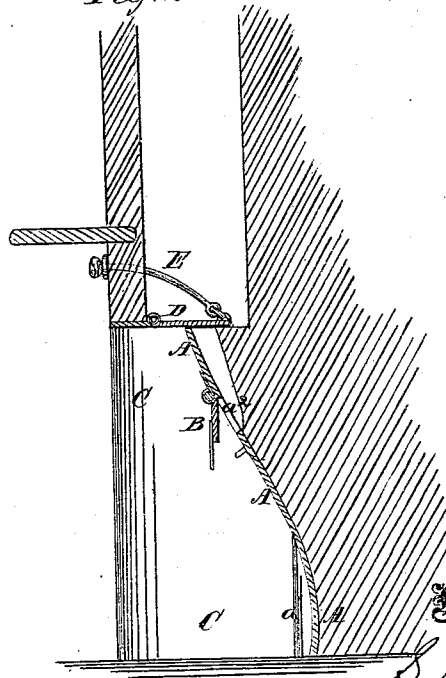


Fig. 2.



Witnesses:

John Becker,
Geo W. Mabey

Inventor:

S. D. Dearman

PER

Mumford
Attorneys.

UNITED STATES PATENT OFFICE.

SAMUEL D. DEARMAN, OF ROCK HILL, SOUTH CAROLINA.

IMPROVEMENT IN FIRE-PLACES.

Specification forming part of Letters Patent No. 125,938, dated April 23, 1872.

Specification describing a new and useful Improvement in Fire-Place, invented by SAMUEL DECATUR DEARMAN, of Rock Hill, in the county of York and State of South Carolina.

Figure 1 is a front view of my improved fire-place. Fig. 2 is a detail vertical section of the same taken through the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved cast-iron fire-place which shall be so constructed as to serve as a security against fire and as a radiator of heat, and which shall at the same time be simple in construction, easily applied, and durable; and it consists in the construction and combination of the various parts of the fire-place, as hereinafter more fully described.

A is the back plate of the fire-place, which is made of cast-iron and of suitable thickness. The upper part of the plate A is curved forward and upward to give a suitable form to the fire-place. Upon the lower part of the plate A are formed two ribs, *a*¹, which project about one and a half inch, and which are from twelve to fourteen inches long. The ribs *a*¹ are designed to hold the wood forward from the plate A, and form a space through which a current of warm air may pass up to an opening, *a*², in the upper part of the plate A which leads into a channel passing up through the brick-work to the chimney-flues, so as to form a strong draught in the chimney-flue, and thus prevent smoking. The opening *a*² is closed by a damper, B, which should be hinged at its upper edge, and should be provided with a latch to fasten it closed when desired. The damper B being upon the forward curve of the plate A, when left unfastened will hang open, as

shown in Fig. 2. The plate A should extend below the hearth, and should be secured in place by anchor-irons laid in the brick-work. C are the side or jamb-plates, which are also made of cast-iron, of suitable thickness and of the proper shape. The plates C are secured in place by anchor-irons laid in the brick-work, and should also extend below the hearth. D is a damper, made of such a size as to wholly close the throat of the chimney-flue, and which is hinged at its forward edge to the arch-bar of the fire-place. To the rear or free edge of the damper D is pivoted the end of a rod, E, which passes out through the front wall of the chimney near the mantel, and either above or below it, so that the damper D can be conveniently opened and closed, as may be desired.

By this construction, should the chimney take fire the damper D may be closed, which will entirely shut off the draught and thus put out the fire. The damper D may also be closed in summer to allow plants or other articles to be placed in it for ornamentation.

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

The cast-iron back-plate A made with ribs *a*¹ and an opening, *a*², the cast-iron side or jamb-plates C, the damper B, and the damper D, constructed and arranged in connection with each other, substantially as herein shown and described, to adapt them to serve as a fire-place, as and for the purposes set forth.

SAMUEL DECATUR DEARMAN.

Witnesses.

E. H. EDWARDS,
R. D. GALBRAITH.