(No Model.)

# J. S. HARDING.

## FIRE PLACE.

No. 267,885. Patented Nov. 21, 1882.

Fig. 1.

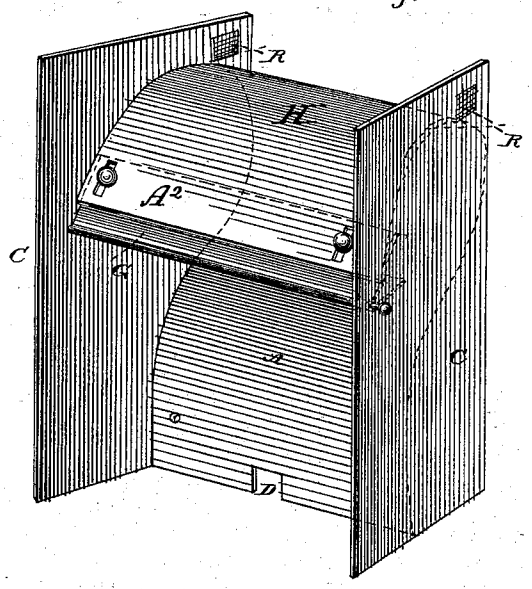
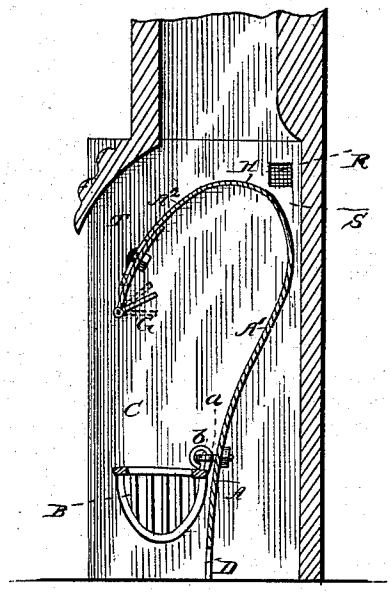



Fig. 2.




WITNESSES:

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# UNITED STATES PATENT OFFICE.

JAMES S. HARDING, OF RIPLEY, OHIO.

## FIRE-PLACE.

SPECIFICATION forming part of Letters Patent No. 267,885, dated November 21, 1882.

Application filed September 2, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES S. HARDING, of Ripley, in the county of Brown and State of Ohio, have invented certain new and useful Improvements in Fire-Places; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of the back plate, arched top, and covings or jambs of my improved fire-place, and Fig. 2 is a vertical sectional view of the same.

Similar letters of reference indicate corresponding parts in both the figures.

My invention contemplates an improved construction of open fire-places, having for its object to economize fuel by providing for its thorough combustion, substantially as hereinafter more fully set forth, and particularly pointed out in the claim.

In the accompanying drawings, in which I have shown so much of a fire-place as is necessary to properly illustrate the nature of my improvement, A designates the back wall or back plate, upon which the grate or fire-basket B is secured by hooks *b*, fitting into eye-bolts *a*, nutted to the back plate above the draft-hole D. The back plate is curved rearwardly, forming an easy curve from the top of the grate between the inclined covings C, as shown at A′, and is then recurved, as shown at $A^2$, to form a dome or hood, H, which impinges with its lower front edge upon the throat T, leading up into the flue. It will be seen that this hood overlaps the grate between the covings from side to side, so as to deflect the unconsumed products of combustion back into the fire. Besides operating in this manner, it heats the air contained in the air-space S, which surrounds the hood, the heated air being permitted to escape into the room through registers R in the upper corners of the covings, back of the throat.

To prevent soot from being thrown out upon the hearth in front of the grate, the lower front part of the hood is provided with a guard, G, or deflector, which is hung on hinges to permit of its adjustment at different angles, as shown in dotted lines, according to the nature of the fuel burnt in the grate.

I claim—

As an improvement in open fire-places, the curved back plate, A A′, recurved to form a dome or hood, H, overlapping the grate, with its downwardly and outwardly projecting front plate, $A^2$, provided with an adjustable soot guard or deflector, G, substantially as and for the purpose herein shown and specified.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

JAMES S. HARDING.

Witnesses:

CHARLES C. CREEKBURN,

WILLIAM R. SCHOLTER.