

(No Model.)

J. H. WHITE.  
ORNAMENTAL GUARD FOR RADIATORS, &c.  
No. 432,172. Patented July 15, 1890.

Fig. 1.

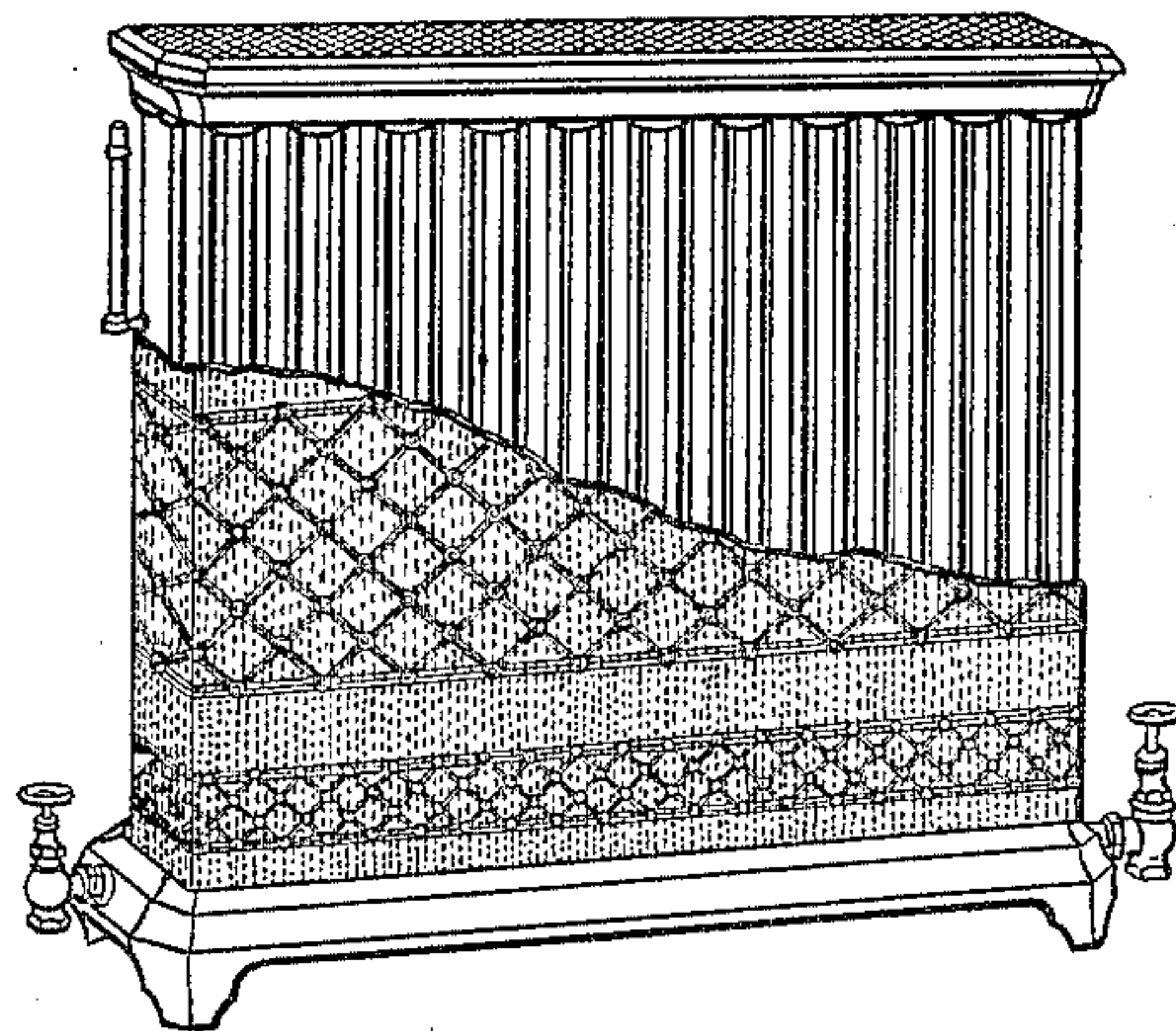


Fig. 3.

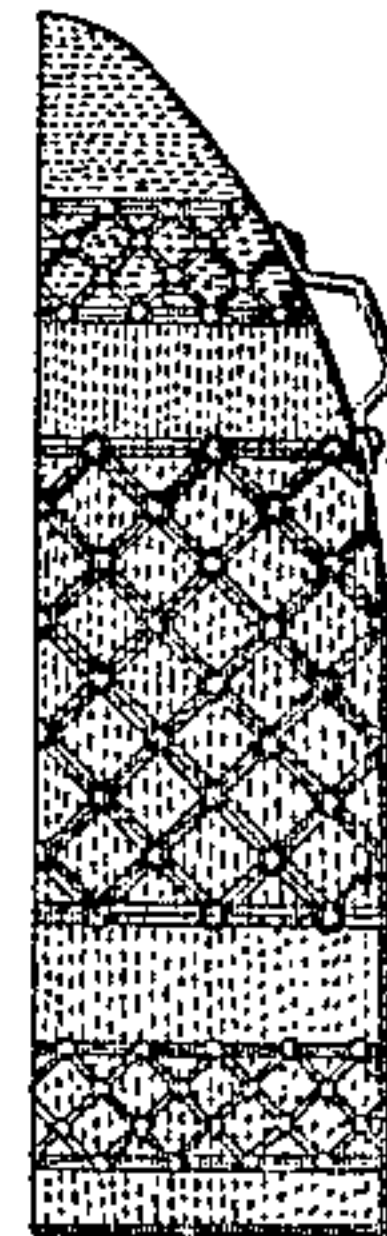
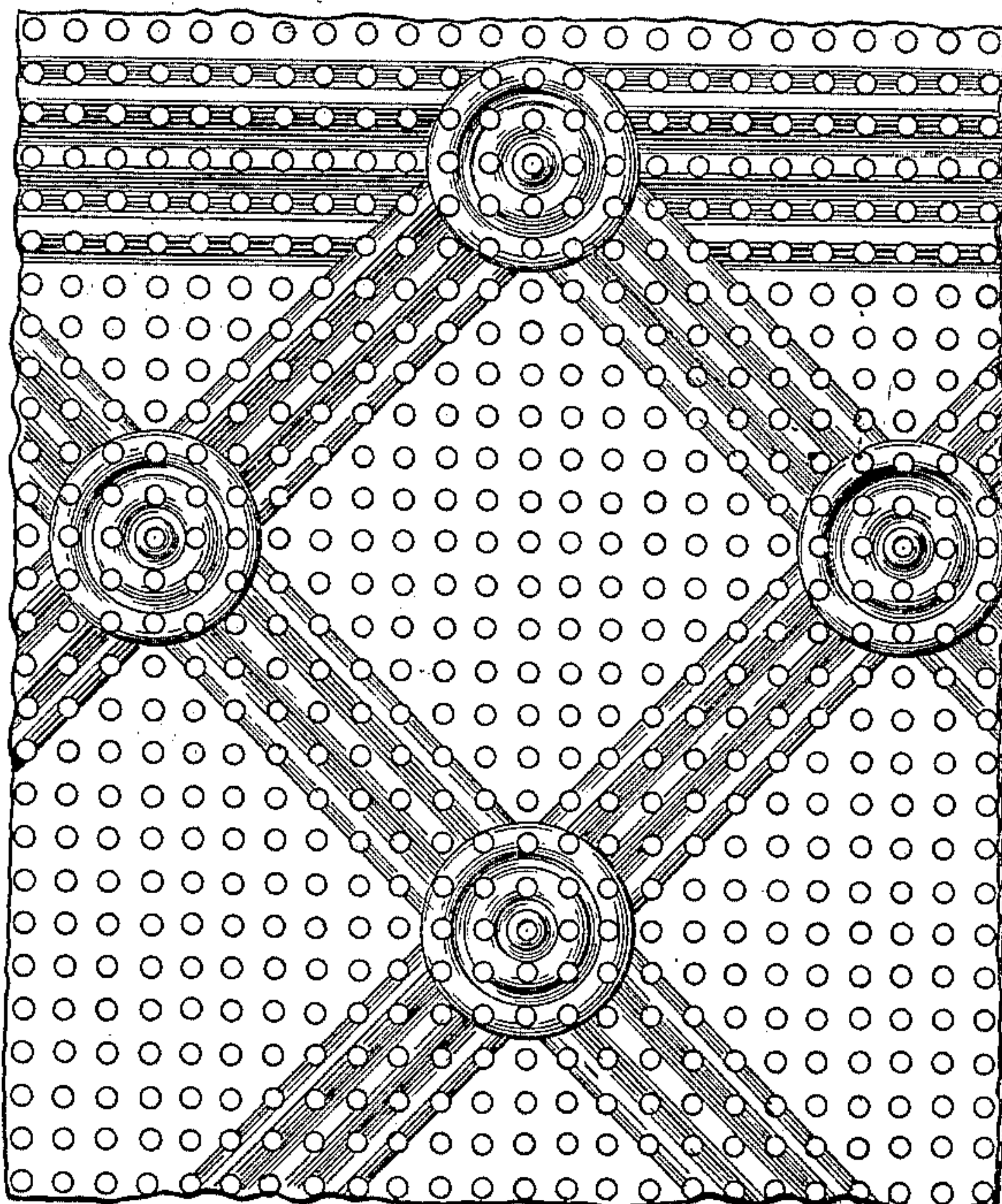


Fig. 2.



Witnesses:

J. Stail  
Chas. N. Smith

Inventor:

James H. White  
per Lemuel W. Terrell atty



# UNITED STATES PATENT OFFICE.

JAMES H. WHITE, OF NEW YORK, N. Y., ASSIGNOR TO THE MANHATTAN  
BRASS COMPANY, OF SAME PLACE.

## ORNAMENTAL GUARD FOR RADIATORS, &c.

SPECIFICATION forming part of Letters Patent No. 432,172, dated July 15, 1890.

Application filed December 7, 1887. Serial No. 257,221. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES H. WHITE, of the city and State of New York, have invented an Improvement in Ornamental Guards for Radiators, &c., of which the following is a specification.

Sheet-metal cases or guards for radiators heretofore constructed by me have been of polished metal with openings of various shapes or ornamental designs for the passage of the heated air; but the said cases did not allow the heat to be radiated with sufficient freedom.

My present invention relates to a case adapted to steam or hot-water radiators or to fires in a grate or on a hearth, whereby the clothing is protected from contact with such radiating-surfaces or fire, but the air is free to circulate and the heat to radiate through the case.

In the drawings I have represented, in Figure 1, a part of my case applied upon a steam-radiator, and in Fig. 2 I have shown a piece of the sheet metal made use of in larger size; and Fig. 3 is a side view of a case or guard adapted to a coal or wood fire in a grate or upon a hearth.

The shape of the case is to be adapted to the steam or other radiator or hearth, and the size will vary according to circumstances.

Instead of making use of woven wire or of

sheet metal with ornamental openings therein, I make use of sheet metal perforated throughout with rows of numerous small and regular perforations as close together as consistent with the proper strength of the casing, and the surface of the sheet metal is, by preference, polished; and in all instances the sheet metal is embossed to form ornamental designs, so that the foraminous case becomes highly ornamental, and at the same time the air is allowed to circulate and the radiated heat to pass freely through the perforations; and where this case is placed as a guard in front of a coal or wood fire it intercepts but slightly the view of said fire or the radiation of heat therefrom, but it intercepts with certainty sparks that may fly from the fire, and it is very handsome in its appearance.

I claim as my invention—

A radiator-case composed of sheet metal perforated with regular rows of fine holes close together and embossed to form raised ornamental figures in the sheet metal, substantially as set forth.

Signed by me this 2d day of December, 1887.

JAMES H. WHITE.

Witnesses:

GEO. T. PINCKNEY,  
WILLIAM G. MOTT.