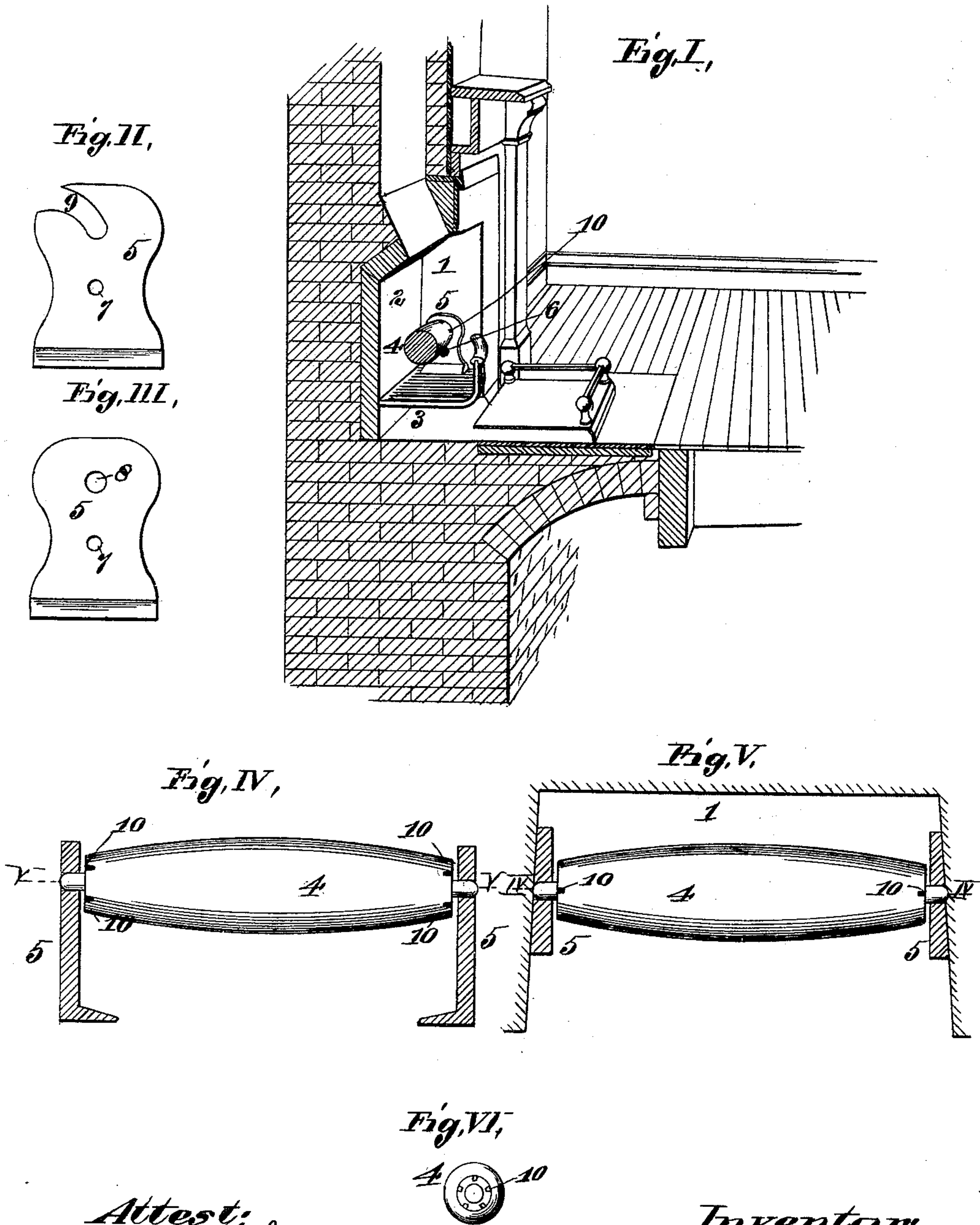


(No Model.)

J. H. DOZIER.  
FIRE PLACE.

No. 407,181.

Patented July 16, 1889.



*Attest;*  
*Emma Arthur*  
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# UNITED STATES PATENT OFFICE.

JAMES H. DOZIER, OF ST. LOUIS, MISSOURI, ASSIGNOR TO LEWIS D. DOZIER,  
OF SAME PLACE.

## FIRE-PLACE.

SPECIFICATION forming part of Letters Patent No. 407,181, dated July 16, 1889.

Application filed February 1, 1889. Serial No. 298,374. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES H. DOZIER, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Fire-Places, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, and in which—

Figure I is a sectional perspective view illustrating my invention. Fig. II is an enlarged side view of one of the end brackets, and Fig. III is a similar view of the other bracket. Fig. IV is a vertical section through one of the end brackets, showing the bar in elevation, this section being taken on line IV IV, Fig. V. Fig. V is a horizontal section taken on line V V, Fig. IV. Fig. VI is an end view of the roller.

My invention consists in novel features of construction, hereinafter described, and pointed out in the claims.

Referring to the drawings, 1 represents the side of a fire-place, 2 the back, and 3 the basket or fire-box.

4 represents a horizontal bar supported in the upper part of the basket, and which is mounted in side pieces 5. The bar is made in the form of a rolling-pin or convex roller adapted to be turned, though it may be stationary, if preferred. The side pieces stand on the grate-bars within the basket, and may be secured to the sides of the fire-place by means of bolts 6, passing through perforations 7 in the side pieces. One side piece has a perforation 8 to receive one of the journals or reduced ends of the bar and the other a curved slot 9 to receive the other journal or reduced end of the bar. The bar may be provided with a number of notches or slots 10, preferably near each end, in which may be placed a poker or other instrument for the purpose of turning the roller.

As the under side of the bar becomes heated to a high temperature, it may be turned to present this heated surface, so as to radiate the heat into the room. Then

when this surface becomes chilled or cooled off and the lower surface heated the bar may be turned again, and in this way the heat of the fire-place is utilized to greater advantage than heretofore.

The bar may be made of iron, soapstone, fire-clay, or other suitable material. Besides radiating heat into the room, the bar is useful as a means of assisting the burning of slack, as it will contain heat that will act upon the fresh slack and facilitate the burning of it. The bar is so placed that it is in the path of the gases and heat passing from the fire-place to the flue, and thus collects and retains a large amount of heat that would otherwise escape and be wasted.

I claim as my invention—

1. The combination, with the basket or grate of a fire-place, of a horizontal radiating-bar extending over the fuel and having end supports, substantially as described.

2. The combination, with the basket or grate of a fire-place, of a horizontal radiating-bar and the side pieces for supporting the ends of the bar, substantially as described.

3. The fire-place radiator consisting of the side pieces 5 and the radiating-bar 4, mounted on said side pieces, substantially as described.

4. The fire-place radiator consisting of the side pieces 5 and the radiating-bar 4, journaled in the side pieces, substantially as described.

5. The fire-place radiator consisting of the side pieces 5 and the radiating-bar 4, formed with notches 10 at each end and journaled in the side pieces, substantially as described.

6. The fire-place radiator consisting of the side piece 5 having journal-perforation 8, the side piece 5 having journal-slot 9, and the radiating-bar 4, having end notches 10 and journaled in the side pieces, substantially as described.

JAMES H. DOZIER.

In presence of—

GEO. H. KNIGHT,  
EDW. S. KNIGHT.