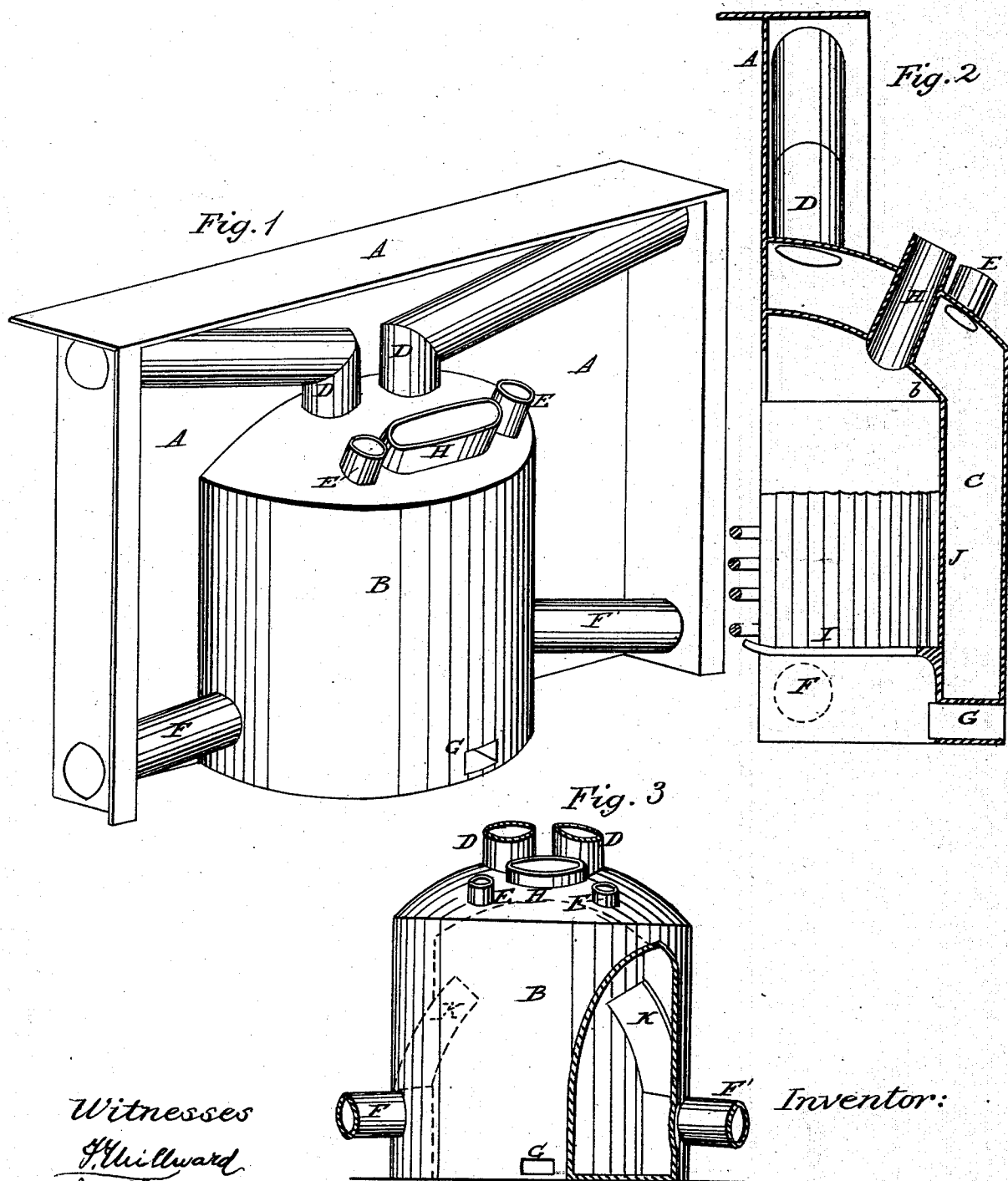


W. T. McMILLEN.
Fire Place.

No. 60,220.

Patented Dec. 4, 1866.



Witnesses
J. Willard
J. H. Layman.

Inventor:

United States Patent Office.

FIRE-PLACE.

WILLIAM T. McMILLEN, OF CINCINNATI, OHIO.

Letters Patent No. 60,220, dated December 4, 1866.

SPECIFICATION.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, WILLIAM T. McMILLEN, of Cincinnati, Hamilton county, State of Ohio, have invented certain new and useful improvements in Fire-Places; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings making part of this specification.

My invention consists in the application and adaptation of deflectors, in connection with air-heating chambers and caliducts to fire-places having common iron mantels, the chamber encompassing the fire space, and having good heat-reflecting properties. In the accompanying drawings—

Figure 1 is a perspective view of the back of a fire-place and mantel embodying my invention.

Figure 2 is a vertical section of the same.

Figure 3 is a rear view of the fire-place, with part of the back removed.

A is a marbleized or other metallic mantel; B, a cylindrico-spherical double-walled fire-place, also of metal, its surface *b* concave, so as to reflect heat into the room, and its interlaminal space C forming an air-heating jacket, from which branch any number of caliducts, D E; those marked E serving to convey hot air to the upper stories. F F' are air inlets to the jacket. G is a cleaning hole, and H the smoke flue. I is the fire-grate, and J detachable corrugated back, removable when burnt out. K K represent deflectors arranged within the air-heating chamber, to compel the air, in passing from the pipes F F' to the caliducts D and E, to go in contact with the hottest portion of the back of the fire-place, whereby the air is more effectually heated and the fire-back maintained at a more uniform temperature.

The apparatus is chiefly designed for attachment to metallic mantels, so prevalent in some parts of the country, where, from local causes, iron is cheapest, but may be used with marble, slate, wood, or other material.

I claim herein as new, and of my invention—

The combination of the deflectors K K, with the chamber C, pipes F F', caliducts D E, and flue H, all constructed and arranged as and for the purposes set forth.

In testimony of which invention I hereunto set my hand.

WILLIAM T. McMILLEN.

Witnesses:

CHAS. D. SMITH,
JAMES H. LAYMAN.