D. CLARIDGE.

FIRE-PLACE AND CHIMNEY.

No. 179,523. Patented July 4, 1876.

FIG. I.

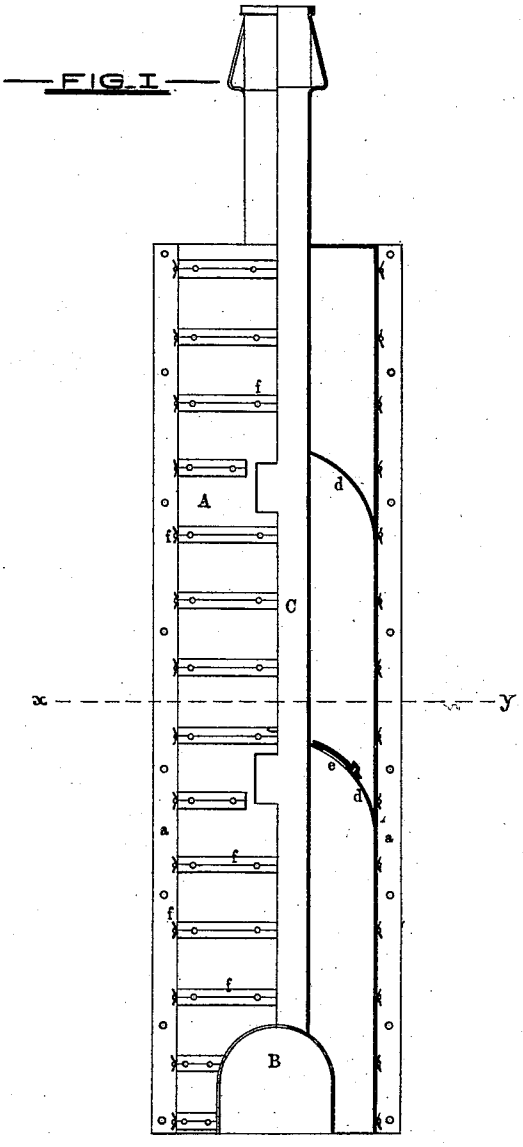


FIG. II.

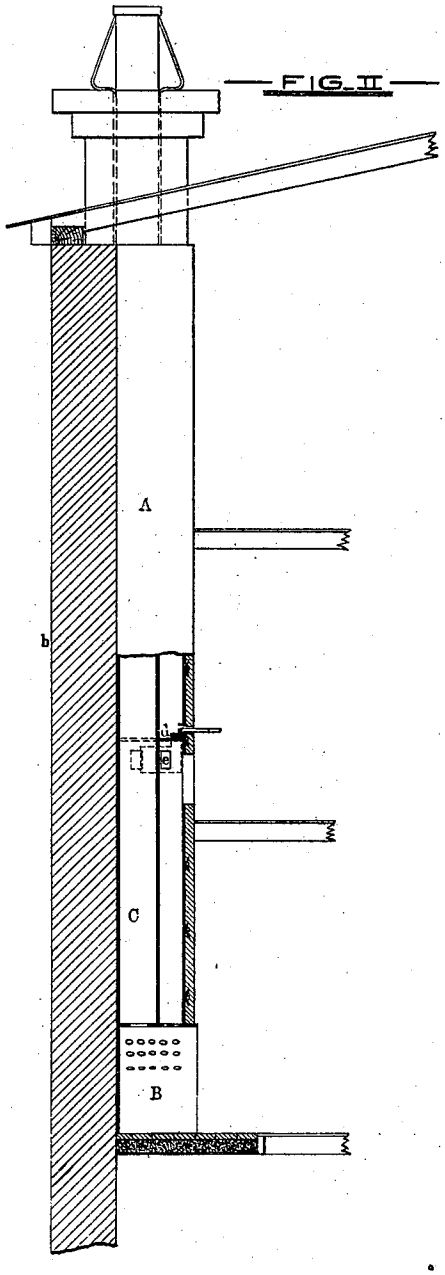
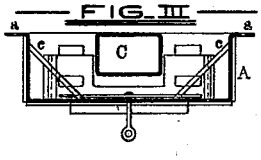


FIG. III.



WITNESSES.

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UNITED STATES PATENT OFFICE.

DANIEL CLARIDGE, OF BALTIMORE, MARYLAND, ASSIGNOR OF ONE-HALF HIS RIGHT TO WILLIAM T. HENDERSON, OF SAME PLACE.

IMPROVEMENT IN FIRE-PLACES AND CHIMNEYS.

Specification forming part of Letters Patent No. **179,523**, dated July 4, 1876; application filed April 20, 1876.

To all whom it may concern:

Be it known that I, DANIEL CLARIDGE, of the city of Baltimore and State of Maryland, have invented certain new and useful Improvements in Fire-Places and Chimneys, of which the following is a specification; and I do hereby declare that in the same is contained a full, clear, and exact description of my said invention, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

My invention relates to a sheet-metal fire-place and chimney, having in combination therewith hot-air-conducting passages or hot-air chambers, provided with suitable dampers for diverting and checking the currents of hot air at the different stories, and is designed to be a complete system of smoke and hot-air conducting passages and channels, and used in place of the ordinary brick stack and fire-place, and the hot-air pipes extending from the fire-place stove to the apartments in the different stories of the house.

In the description of my invention which follows, due reference must be had to the accompanying drawing, forming a part of this specification, and in which—

Figure 1 is a partly sectional front view of the invention; Fig. 2, a side view of the same, also partly in section; and Fig. 3, a cross-section on line *x y*.

Similar letters of reference indicate similar parts in all the figures.

A is a box, preferably made of galvanized sheet-iron, and adapted by means of the flange *a* to be secured to the wall *b* of the building. The box A is intended to extend from the floor of the basement, or first story, of the building to near the roof thereof, and is inclosed at the upper end, and made air-tight at the seams or joints of the sheets used in its construction. The box A is strengthened and its form maintained by means of diagonal braces *c*. B is the fire-place, also made of galvanized sheet-iron; and C, the chimney, extending from the fire-place to a desired height above the roof of the building, and provided with a cap at the top. The fire-place B is perforated to allow of the passage of the heated air from the stove therein to the box A, where it is stored in the various chambers formed by the partitions *d*, to be admitted to the different apartments in the building through registers. Apertures *e* in the partitions *d* form the means of communication between the several chambers in the box A, and are each fitted with a damper, which may be closed when it is desired to cut off the hot air at that point.

My invention as described is cheaply constructed, easily applied to any building in course of erection, and occupies considerably less space than the ordinary brick chimney. It also utilizes the heat from the smoke to heat the air in the box A, through which it passes.

By forming the box A of corrugated iron, and attaching to its outside the projecting strips *f*, as shown, the box can be plastered and made to present the usual appearance of chimneys.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

A metallic combined fire-place, chimney, and hot-air distributer, consisting of a box, A, having a fire-place, B, a central chimney, C, and hot-air chambers surrounding said chimney, separated from each other by perforated partitions *d*, supplied with dampers, substantially as herein described.

In testimony whereof I have hereunto subscribed my name this 3d day of April, in the year of our Lord 1876.

DANIEL CLARIDGE.

Witnesses:

WM. T. HOWARD,

JNO. S. MADDOX.