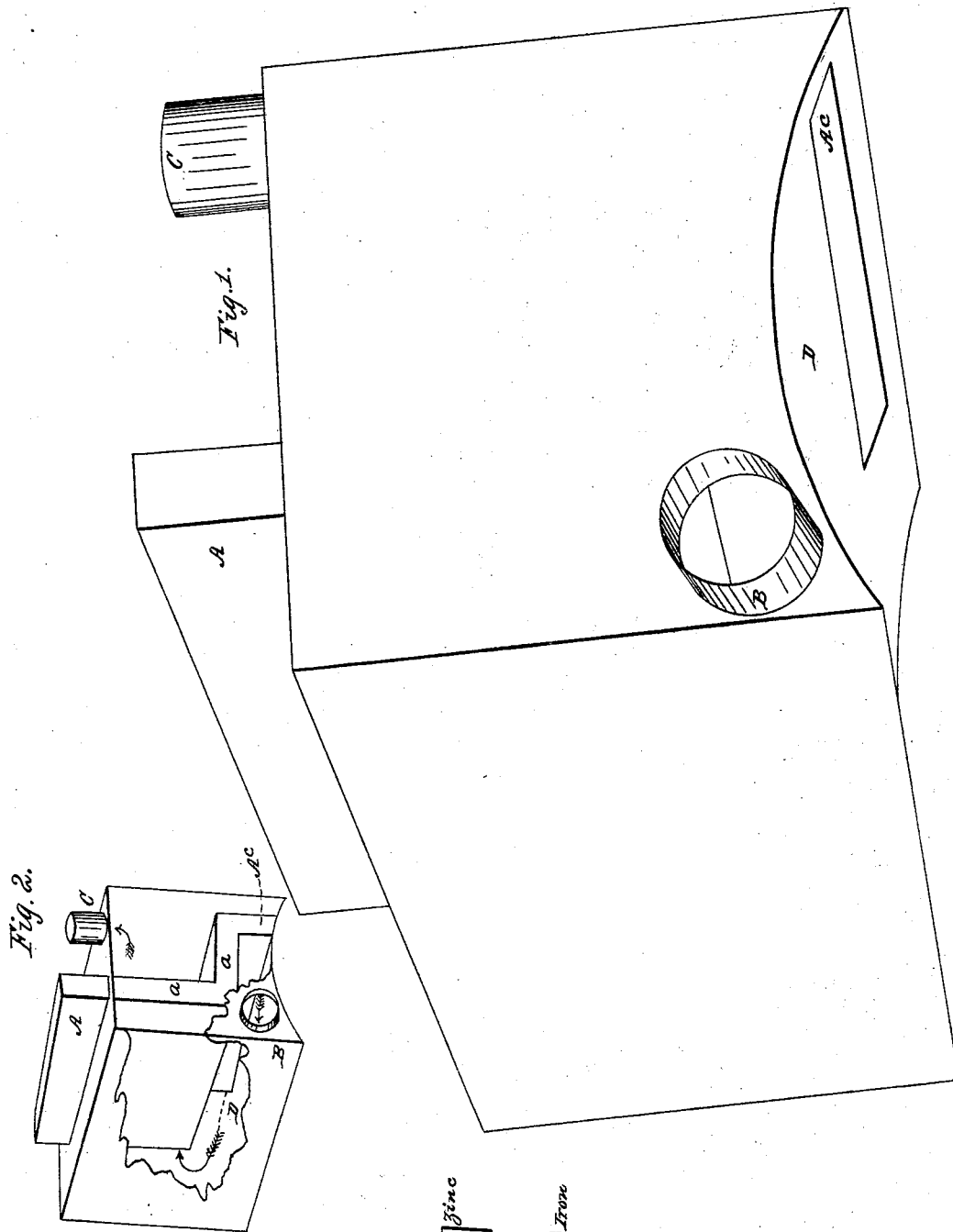


ASPINALL & WHITLOCK.

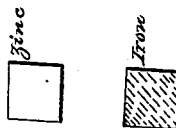
Heater for Chimneys.

No. 53,770.

Patented April 10, 1866.



Witnesses:
J. H. McHenry
S. M. McHenry



Inventors:
Thomas Aspinall
Stephen H. Whitlock

UNITED STATES PATENT OFFICE.

THOMAS M. ASPINALL AND STEPHEN H. WHITLOCK, OF PIQUA, OHIO.

HEATER FOR CHIMNEYS.

Specification forming part of Letters Patent No. 53,770, dated April 10, 1866.

To all whom it may concern:

Be it known that we, THOMAS M. ASPINALL and STEPHEN H. WHITLOCK, of Piqua, in the county of Miami and State of Ohio, have invented a new and useful Improved Heater and Fuel-Saver; and we do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a perspective view; and Fig. 2 is a bisected view, representing the inside of the box, Fig. 1.

The improved heater and fuel-saver consists of a box of any convenient size to suit the chimney in which it is proposed to be inserted, and may be made of zinc, sheet-iron, or any suitable metallic substance; but it is recommended that the bottom be of cast-iron, which is to be of a concave form, as represented by D, Fig. 1. From this concave bottom is an aperture or flue, as represented by A *a*, Fig. 1, leading through the box, Fig. 1, in an irregular shape, as represented by A *a a a*, Fig. 2. For the purposes of durability it is recommended that this flue be made of cast-iron.

There is an aperture near the bottom of the box, as represented by B, Fig. 1, to admit cold air, which is heated by means of the concave bottom D and the flue A *a*. The cold air on entering the box at B, Fig. 1, is forced to pass between the concave bottom D and the flue *a* and becomes immediately heated, when it passes out at the opening C, Figs. 1 and 2, and is conducted by means of pipes to any chamber in the house.

This heater or box, Fig. 1, is to be placed immediately over the arch-bar and in the throat of the chimney, so as to force all the heat of the fire in the chimney to strike the concave bottom D or pass through the flue A, the flue carrying off all the smoke.

We claim—

The arrangement of the heater or box for insertion in the chimney above the arch, and provided with a flue, A *a a*, for the passage of the heated air, &c., from the fire, a cold-air induction-opening, B, and a warm-air delivery, C, substantially as described and represented.

THOMAS M. ASPINALL.
STEPHEN H. WHITLOCK.

Witnesses:

J. F. MCKINNEY,
S. S. MCKINNEY.