N. CONSTABLE.

Fire-Proof Safes.

No. 139,296. Patented May 27, 1873.

Fig. 1.

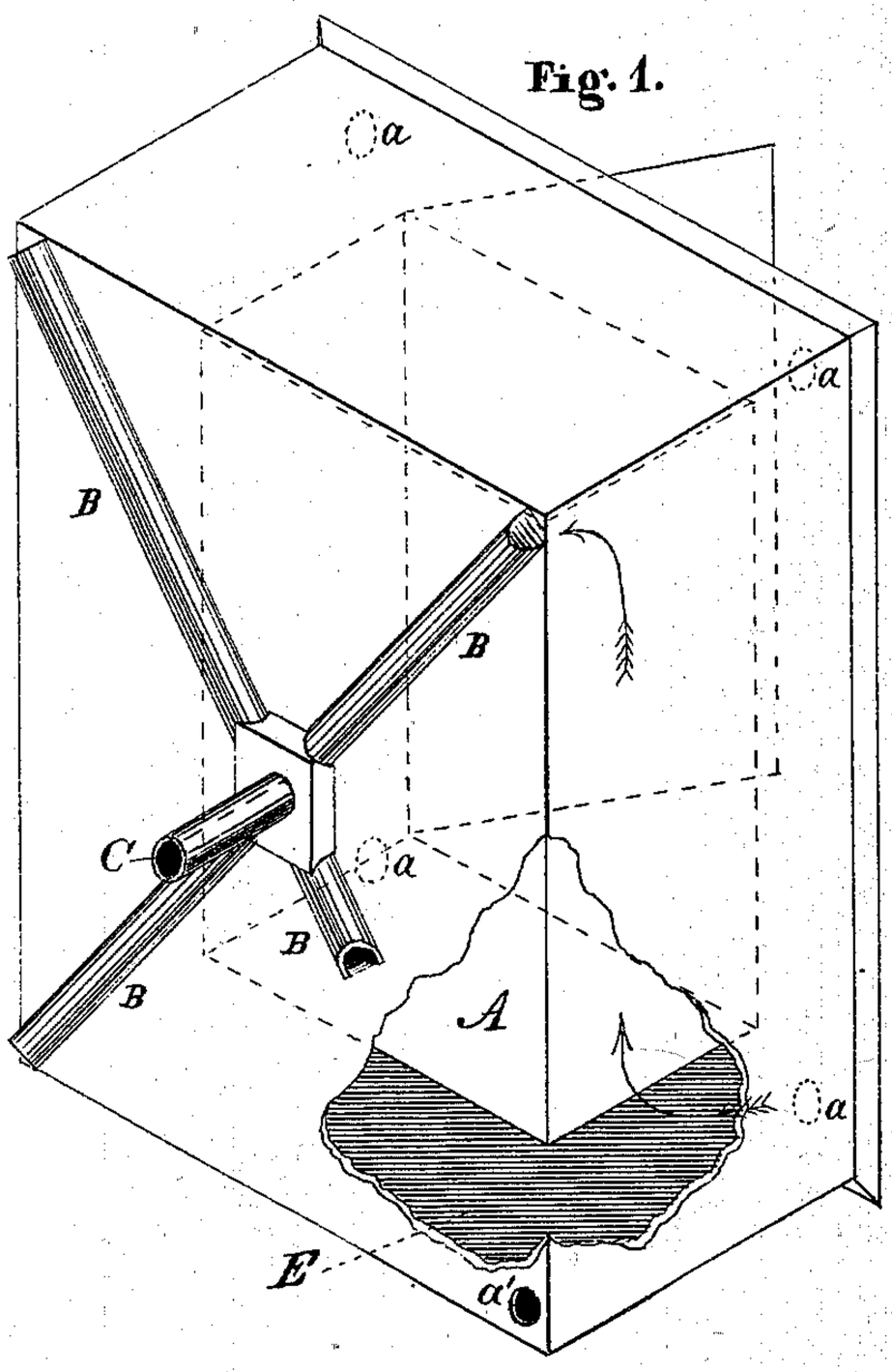
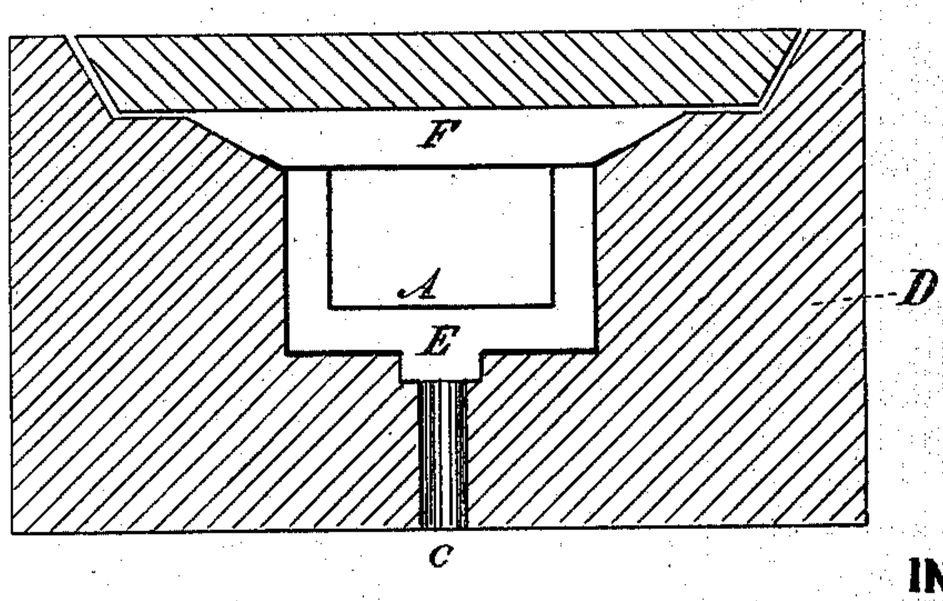


Fig. 2.



WITNESSES

F. L. Davenport.
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by Moody and Davenport, Attys.

UNITED STATES PATENT OFFICE.

NATHANIEL CONSTABLE, OF CARROLLTON, ILLINOIS.

IMPROVEMENT IN FIRE-PROOF SAFES.

Specification forming part of Letters Patent No. **139,296**, dated May 27, 1873; application filed November 14, 1872.

To all whom it may concern:

Be it known that I, NATHANIEL CONSTABLE, of Carrollton, in the county of Greene and State of Illinois, have invented a new and useful Improvement in Fire-Proof Safes; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings and to the letters of reference marked thereon:

This invention consists in inclosing a safe with an air-chamber, and in employing, in connection with said air-chamber, certain flues and apertures, as will be fully described hereinafter.

In the drawings, Figure 1 represents a perspective view of my invention, the outer wall of the air-chamber being broken away to show the safe A, and a portion of one of the tubes or flues being also removed to show the location of the apertures in the rear wall of the air-chamber. Fig. 2 is a horizontal cross-section on the line of the eduction-flue C.

To enable others skilled in the art to make and use my invention, I will now proceed to describe fully its construction and manner of operation.

A represents the safe proper, constructed generally in any proper manner, and provided with a suitable door, as shown in Fig. 1. E represents an air-chamber, formed by walls of any proper material, which inclose the safe A upon all sides excepting its front. B B B B are flues, which communicate at their outer ends with the air-chamber E through apertures in the corner of the walls, and at their inner ends with the central eduction-flue C, as shown. The described construction is set in packing D, as shown in Fig. 2, in such manner that a space, F, is left between the door of the safe proper and an outer door, as shown. This outer door is made to fit loosely, or perforations are made through it, as may be desired. Communication is also made between the air-chamber E and the space F by means of apertures *a a*, shown in dotted lines, Fig. 1, in the front wall of the air-chamber.

By means of the described construction, when the safe is exposed to heat from any cause, no matter what its position may be, a current of air is caused to pass through the air-chamber in one direction or the other, the heated air of course ascending, while the cold air enters to supply its place. By this means any excess of heat is carried off, and its contents are prevented from injury.

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

The box A, air-chamber E, flues B B B B and C, apertures *a a a a a' a' a' a'*, with space F, constructed and arranged as described, for the purpose set forth.

This specification signed and witnessed this 8th day of November, 1872.

NATHL. CONSTABLE.

Witnesses:
CHAS. D. MOODY,
F. S. DAVENPORT.