

C. D. EVERETT.

Bellows.

No. 128,378.

Patented June 25, 1872.

Fig. 1.

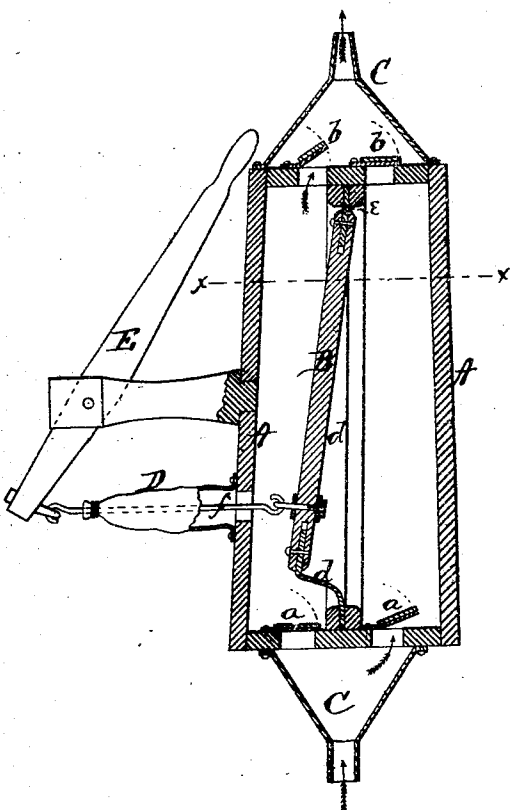
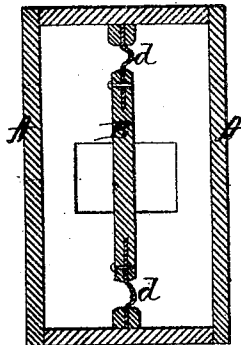


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN BELLOWS.

Specification forming part of Letters Patent No. 128,378, dated June 25, 1872.

To all whom it may concern:

Be it known that I, CHARLES D. EVERETT, of the city of Cleveland, in the county of Cuyahoga and in the State of Ohio, have invented certain new and useful Improvements in Bellows; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in the construction and arrangement of a "bellows," for any purpose to which the same may be applied.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a longitudinal vertical section of my device; and Fig. 2 is a transverse section of the same through line *x x*, Fig. 1.

A represents a box of any suitable dimension, provided with two valves, *a a*, in the bottom, and two valves, *b b*, in the top, all of which valves open upward. Upon each end of the box A is placed and secured a funnel-shaped chamber, C, covering the valves, as shown in Fig. 1. Vertically through the center of the box is a movable partition, B, hinged along its upper edge by a flexible strip, *e*; and the side and bottom edges of this partition are, by leather or other flexible strips *d d*, connected with the sides and bottom of the box, al-

lowing the partition to swing from side to side, but at the same time forming perfectly airtight joints between the two compartments. The partition B divides the box A in two compartments, each having an inlet-valve, *a*, and an outlet-valve, *b*. From near the lower end of the partition B a rod, *f*, passes through the side of the box, connecting with a lever, E, for operating the machine. A hood, D, made of any flexible material, is attached to the rod *f* and to the outside of the box A around said rod, as shown in Fig. 1.

This machine may be used for various purposes—for instance, extracting foul air from or forcing fresh air into mines or other similar localities, for blast-furnaces, blacksmith shops, ventilating vessels, &c., and for many other purposes.

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

The combination of the box A with ingress-valves *a a* and egress-valves *b b*, center-board B with strips *d e*, rod *f*, hood D, and lever E, all constructed and arranged to operate substantially in the manner and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 20th day of March, 1872.

CHAS. D. EVERETT. [L. S.]

Witnesses:

FREDERICK JUDSON,
EDWARD R. GRISWOLD.