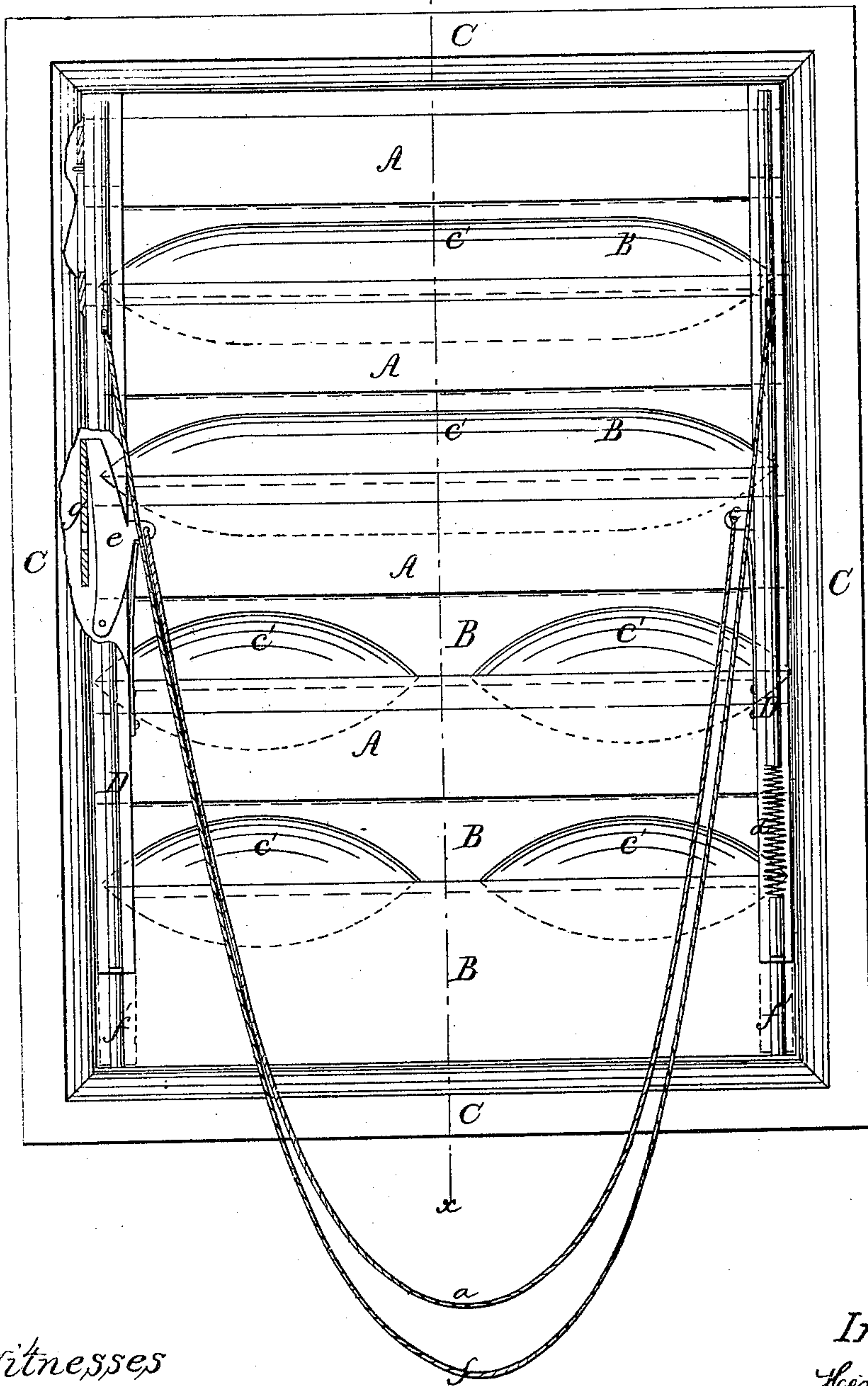


*H. Kelly,*  
*House Ventilator.*

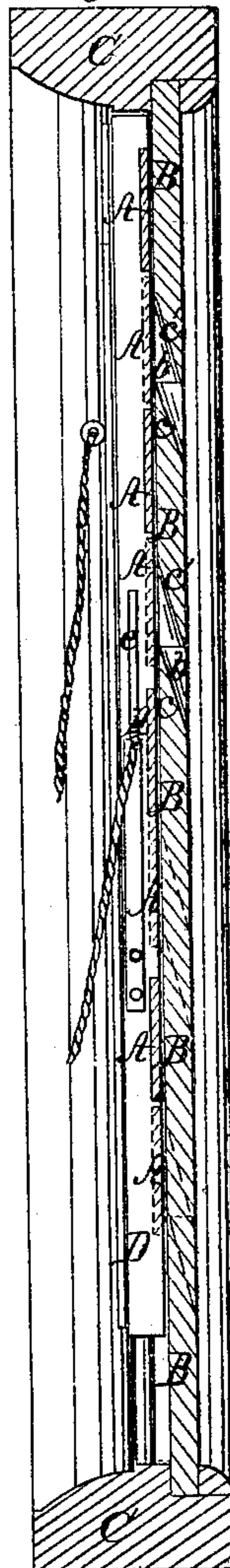
*No. 86,413.*

*Patented Feb. 2. 1859.*

*Fig. 1*



*Fig. 2*



*Witnesses*  
*Edw. W. Dunn*  
*John Porter*

*Inventor*  
*Henry Kelly*  
*By his attorney*  
*J. Edwin Sherman*

# United States Patent Office.

HENRY KELLEY, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO HIMSELF, WALTER J. ROBERTS, AND ARTHUR C. HOWARD.

*Letters Patent No. 86,413, dated February 2, 1869.*

## IMPROVEMENT IN VENTILATORS.

The Schedule referred to in these Letters Patent and making part of the same.

### *To all whom it may concern:*

Be it known that I, HENRY KELLEY, of Boston, in the county of Suffolk, and State of Massachusetts, have invented a new and useful Improved Ventilator; and I do hereby declare the following to be 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 represents an elevation seen from the inside of an apartment.

Figure 2 represents a vertical section on line *xx*.

This invention consists of two series of glass plates, the one, A, being simple strips of glass, and are made movable by means of cord *a*, to open or close the bevelled aperture in outer plates B, both plates being secured in the sash-bars, C, of an ordinary window.

The outer series may be secured to the sash-bars C in the ordinary way with putty, or, for convenience, with a strip of wood or metal.

In the outer series the plates B B B B are bevelled, as seen at *c c'*, so as to allow the impure or infected air to pass out, and the out-door pure air to enter the apartment when the ventilator is open, without creating a direct draught through the apartment.

Strips D, in which are secured the inner series of plates A A A A, are placed on either side of device,

and made hollow, to receive the spiral spring *d*, which, together with the pin *f' f'*, acting on the lower sash-bar, serve to close the aperture *b*, when the catch *e* is released, by means of the cord *f*, from the slot in the metal plate *g* of the sash-bar C.

The device, as described above, is intended to serve as a substitute for the usual method of ventilating rooms by means of lowering or raising windows, and may also be used instead of ordinary ventilators in walls.

What I claim as new, and desire to secure by Letters Patent, is—

1. A series of plates, B B B B, bevelled, as shown in drawings *b*, arranged substantially as and for the purpose herein set forth.

2. The plates A A A A, in combination with plates B B B B, to close the apertures formed by bevelled plates B B B B.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

HENRY KELLEY.

Witnesses:

C. HOWLAND,  
LUTHER W. BIXBY.