

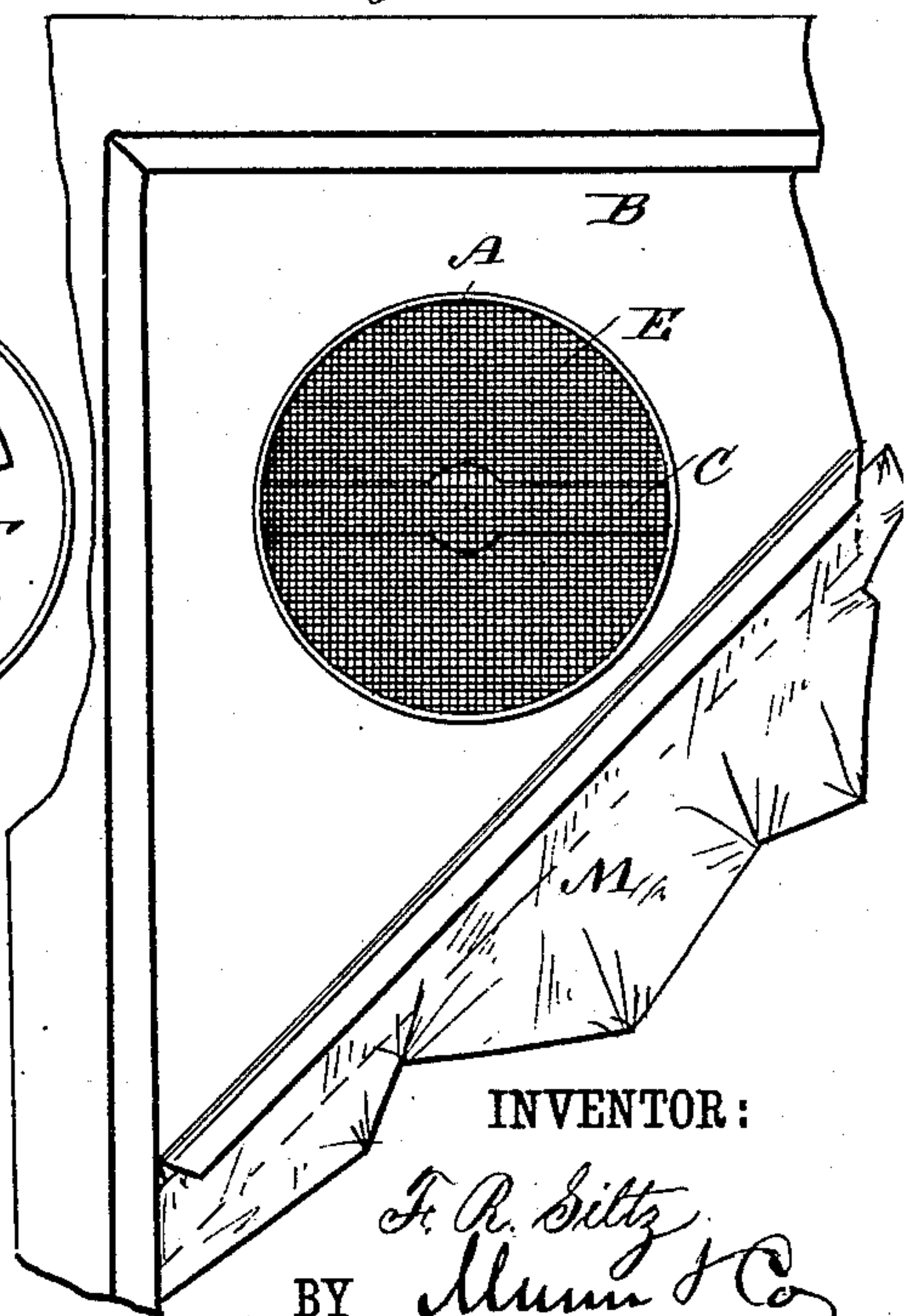
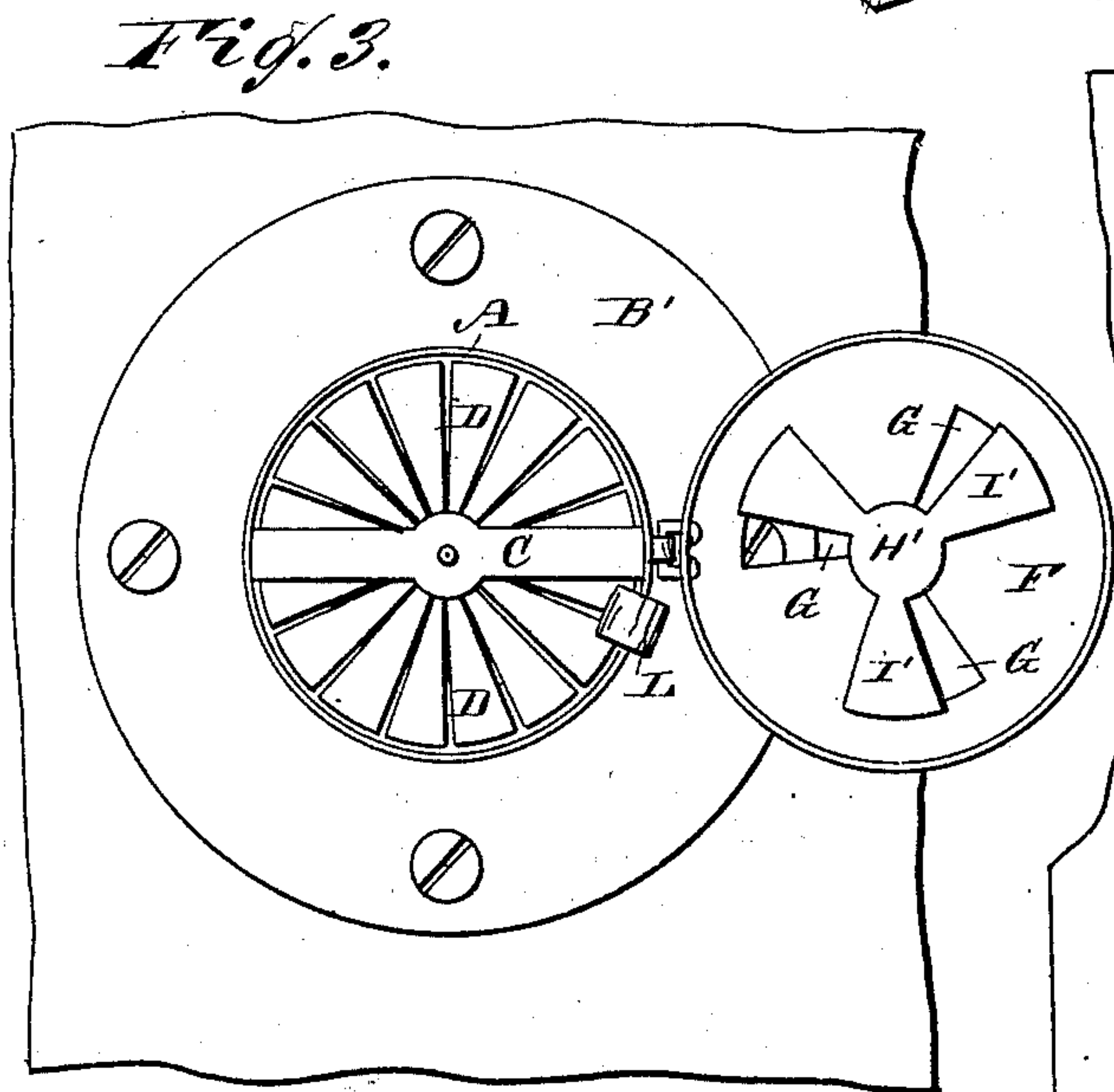
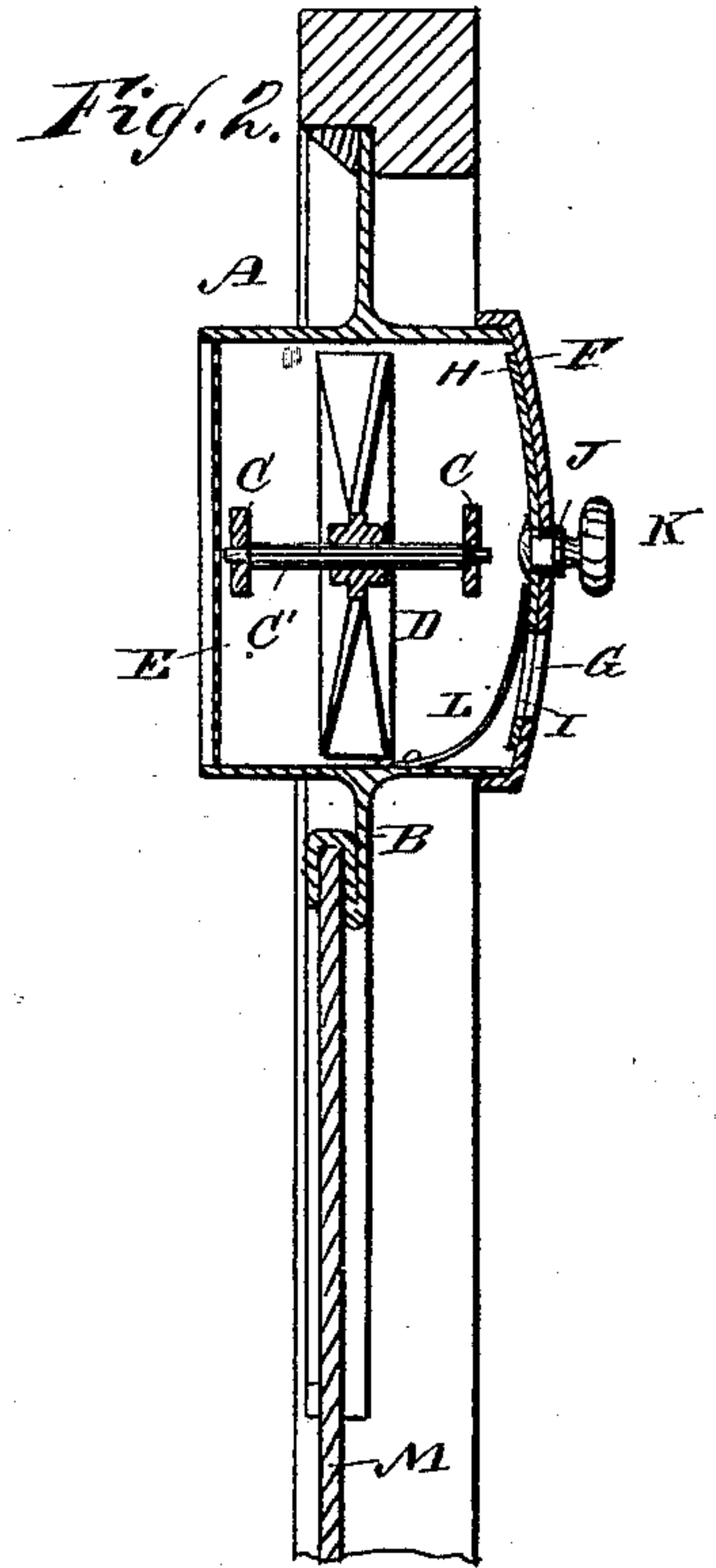
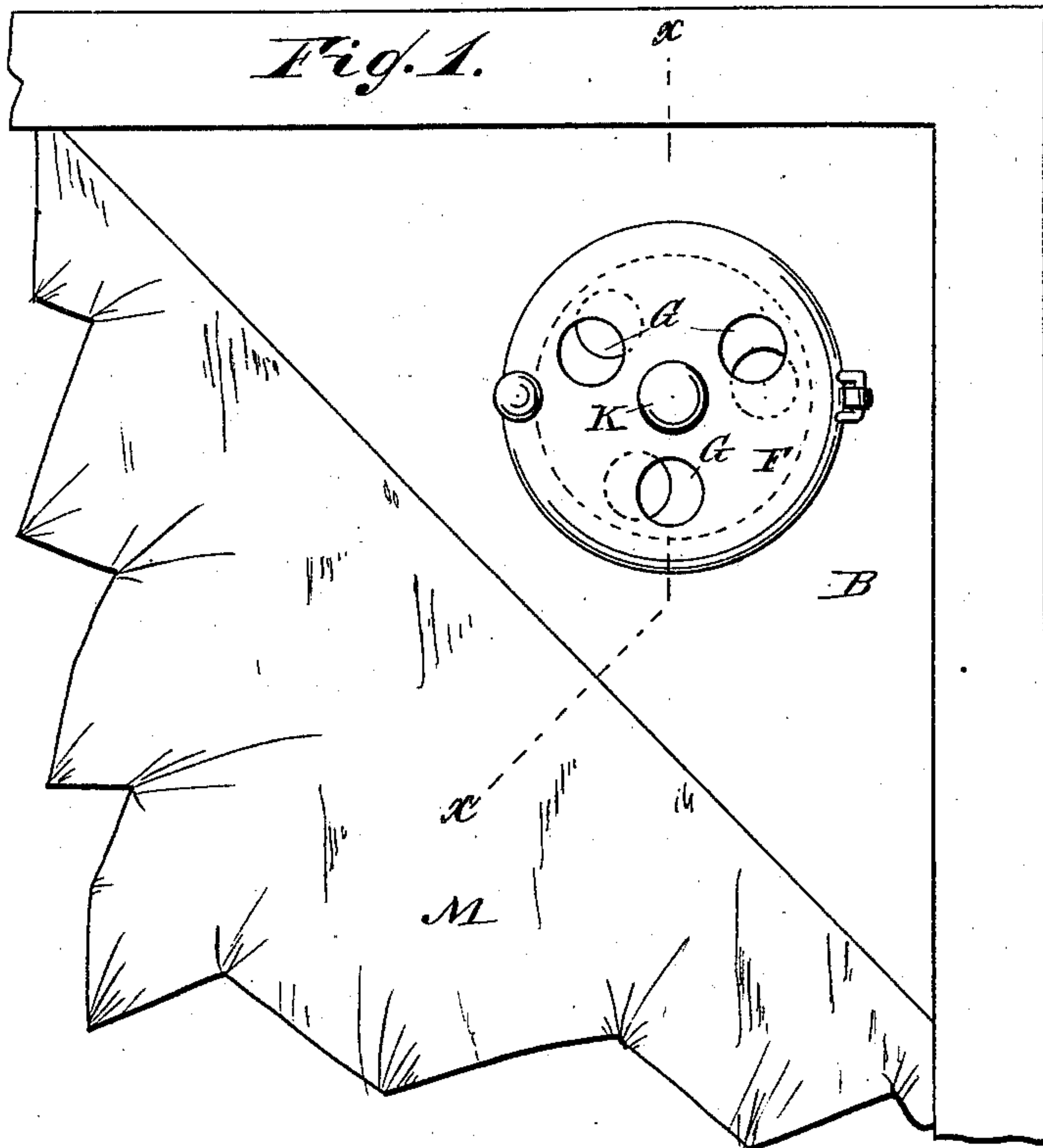
(No Model.)

F. R. SILTZ.

VENTILATOR.

No. 280,092.

Patented June 26, 1883.



WITNESSES:

*Theo. G. Foster.*  
*C. Sedgwick*

INVENTOR:

*F. R. Siltz*  
BY *Munn & Co*  
ATTORNEYS.



# UNITED STATES PATENT OFFICE.

FRANK R. SILTZ, OF LEON, IOWA, ASSIGNOR, BY MESNE ASSIGNMENTS, TO  
SABINA SILTZ, OF SAME PLACE.

## VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 280,092, dated June 26, 1883.

Application filed December 28, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK R. SILTZ, of Leon, in the county of Decatur and State of Iowa, have invented a new and Improved Ventilator, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved ventilator adapted to be secured in doors, windows, &c.

The invention consists in a ventilator formed of a barrel containing a wind-wheel, and provided at one end with a wire-netting, and at the other end with a hinged cap, which can be thrown open by a spring attached to the barrel, which cap is provided with a series of openings which can be closed by a plate held on the inner surface of the cap, and provided with a spindle and pawl for turning it, whereby, by opening the apertures in the cap or by opening the cap, more or less air, as desired, can be admitted into the room through the ventilator.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is an inside elevation of my improved ventilator, showing the manner in which it is secured in a sash. Fig. 2 is a sectional elevation of the same on the line *x x*, Fig. 1. Fig. 3 is an inside elevation of a modification of the same, the hinged cap being shown opened. Fig. 4 is an outside elevation of the same.

A barrel or cylindrical casing, A, is secured in a plate, B, or ring B', so that it projects from one or both surfaces of the same, which barrel is provided with two transverse bars or strips, C, in which a shaft or rod, C', is journaled, on which is rigidly mounted a ventilator-wheel or winged wheel, D, of the usual construction. The said wheel D can revolve freely in the barrel A. A wire screen, E, is secured on the outer end of the barrel A, to prevent insects, dust, &c., from passing through the ventilator into the room. To the inner end of the barrel a cap, F, is hinged, which is

provided with one or more apertures, G, either circular, wedge-shaped, or of any other suitable shape. A plate, H, resting against the inner surface of the cap F, is provided with apertures I in the same manner as the cap, and is provided with a central spindle, J, passing through the cap F, and provided on its outer end with a knob or button, K. If desired, the apertured plate H can be replaced by a small plate, H', provided with wings I', adapted to close the apertures G. A spring, L, secured to the barrel A, rests against the inner surface of the cap and throws the same open as soon as the same is unlocked or released. The plate B is passed into one corner of a sash-pane, M, which has been cut out correspondingly, and the edge of the plate B is bent over the edge of the pane M; or the ring B' can be fastened to a door, &c. If the cap F is closed, and the plate H closes the openings G in the cap, no air can pass through the ventilator. If the plate H is so turned by means of the button K that the openings G will be open—that is, coincide with the openings I—or if the wings I' do not cover the openings G, air can pass through the ventilator. If the cap F is released or unlocked, the spring L will throw it open and a greater quantity of air can pass through the ventilator.

The said ventilator supplies any room with a very large quantity of fresh air, and the ventilator can easily be adjusted to admit any desired quantity of air. One or more ventilators can be fastened to any door or window.

The ventilator will be manufactured from sheet tin or iron, granite-iron, or any kind of metal.

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

1. In a ventilator, the combination, with the barrel A, having the wind-wheel D and the wire-netting, of the hinged cap F and the spring L, substantially as and for the purpose set forth.

2. In a ventilator, the combination, with the barrel A, of the wind-wheel D, the hinged cap

F, and the spring L, substantially as herein shown and described, and for the purpose set forth.

3. In a ventilator, the combination, with the barrel A, of the wind-wheel D, the cap F, provided with apertures G, a plate held on the inner surface of the cap and adapted to close the openings in the cap, the spindle J, at-

tached to the said plate and passing through the cap, and the knob or button K on the spindle J, substantially as herein shown and described, and for the purpose set forth.

FRANK R. SILTZ.

Witnesses:

E. W. CURRY,  
N. P. BULLOCK.