

(No Model.)

F. DUESTERWALD.  
VENTILATOR.

No. 476,134.

Patented May 31, 1892.

Fig. 1.

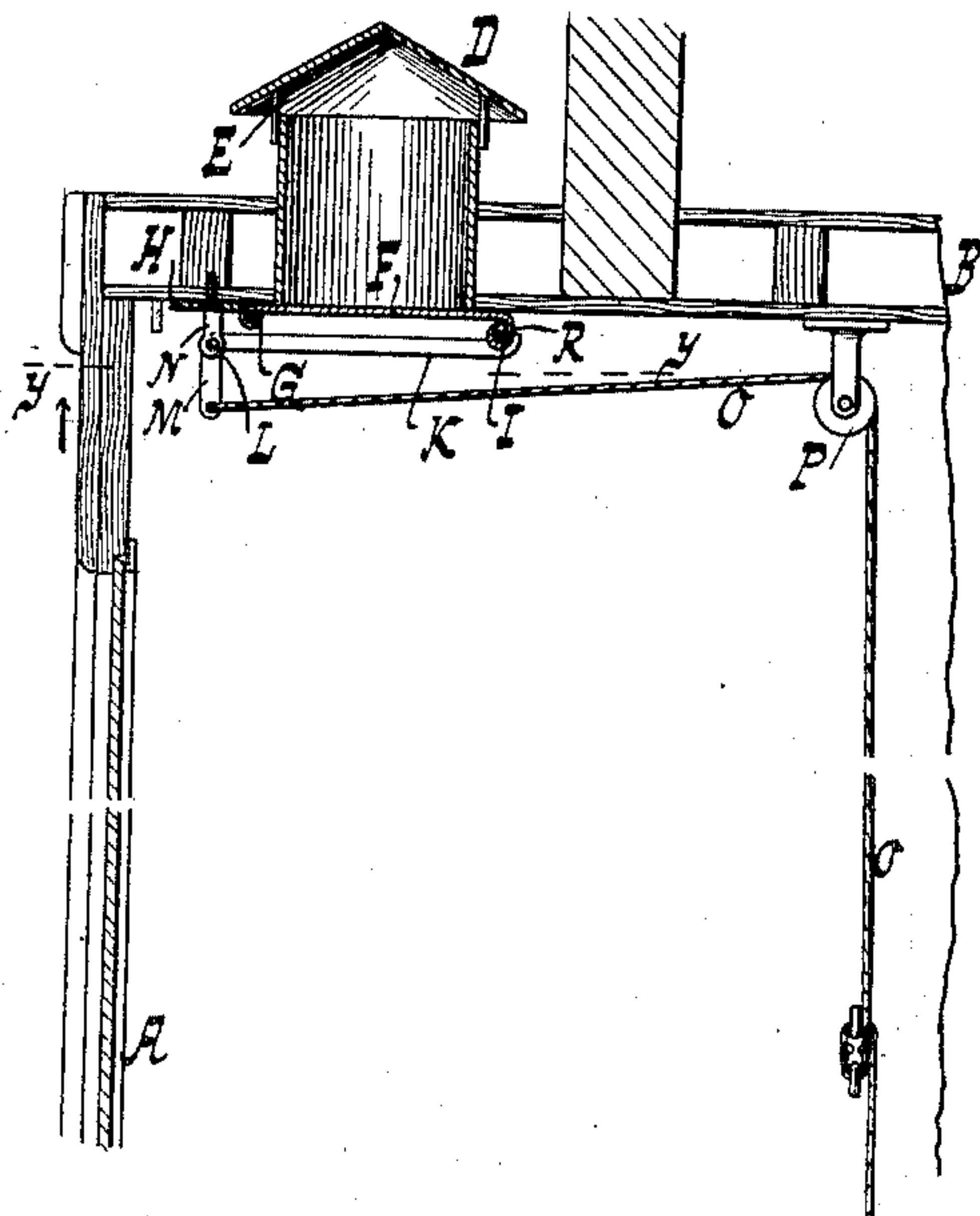


Fig. 2.

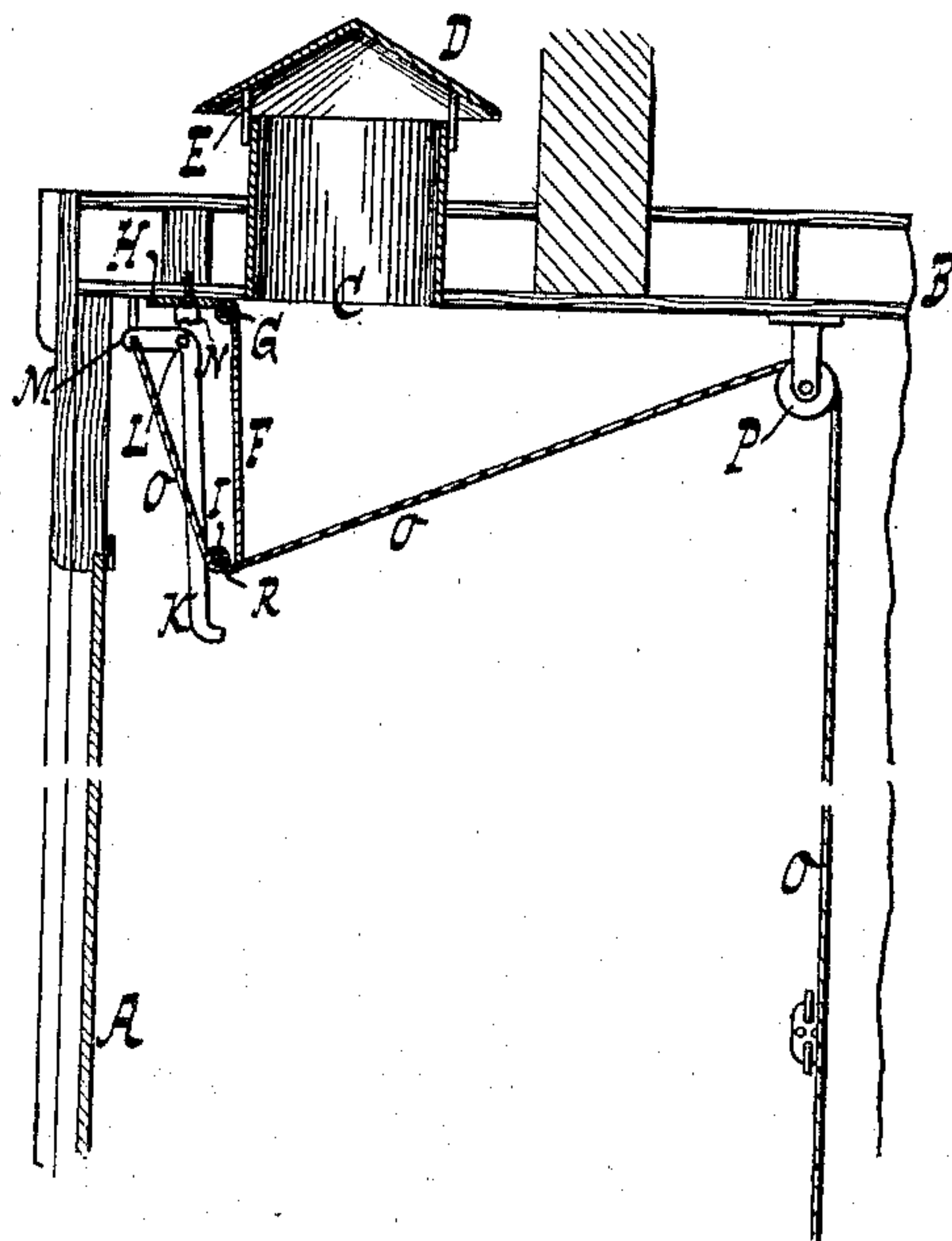
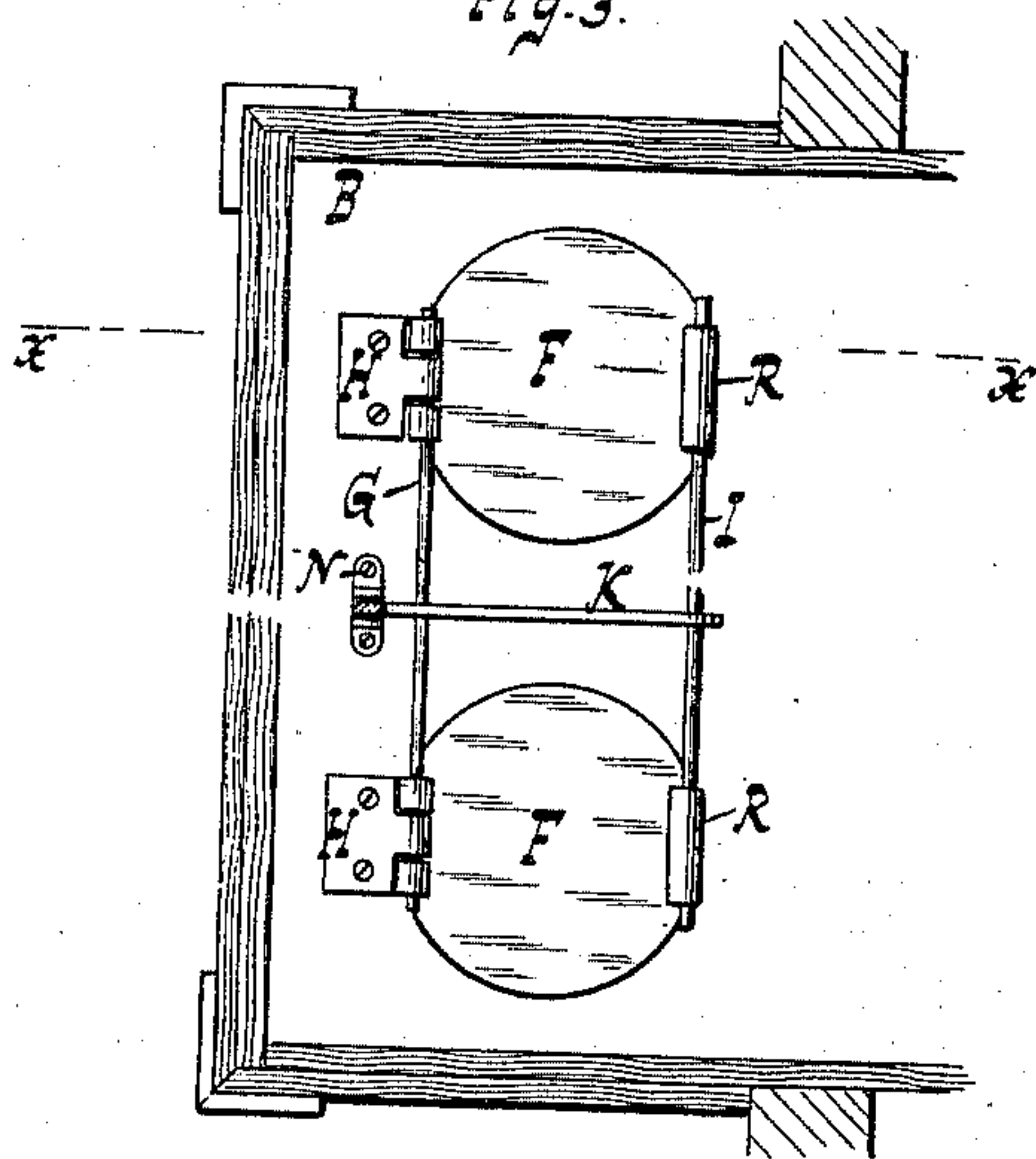


Fig. 3.



WITNESSES:  
William Miller  
Edward Wolff

INVENTOR:  
Frank Duesterwald  
BY  
Van Santvoord & Hauff  
ATTORNEYS.

# UNITED STATES PATENT OFFICE.

FRANK DUESTERWALD, OF BROOKLYN, NEW YORK.

## VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 476,134, dated May 31, 1892.

Application filed March 26, 1892. Serial No. 426,577. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK DUESTERWALD, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented new and useful Improvements in Ventilators, of which the following is a specification.

This invention relates to an improvement in ventilators; and the invention consists in certain novel features pointed out in the following specification and claim and illustrated in the annexed drawings, in which—

Figure 1 is a section along  $x x$ , Fig. 3, the ventilator being closed. Fig. 2 is a view similar to Fig. 1, the ventilator being open. Fig. 3 is a section along  $y y$ , Fig. 1.

The ventilator is shown applied to a show-window, but of course it can be used elsewhere.

A is the glass pane of the show-window, and B is the roof or top, having a ventilator comprising, as here shown, a hole C and a chimney or hood D, having openings E.

This ventilator is chiefly of use at night when lights are burning in the show-window; but during the day dust is apt to fly in through hole C and spoil the contents of the show-window. To close the hole C, or, in case of a large window, several holes C, I apply lids or covers F, hinged by the bar or pintle G to the brackets or eyes H, screwed to the top or roof B. The fronts or free ends of covers F are joined by a rigid bar I, so that all the covers open and shut together. A lever K is fulcrumed at L, and its arm M is connected to a cord O, running over pulley P. A bracket N supports the fulcrum L. When the cord O is

pulled, the lever-arms M K are swung so as to close the lids F, while if the cord O is slackened the lever-arm K drops and the lids F open. Only one arm K, acting on rod I or on one lid F is required, as the bar I will cause all the lids F to open or shut simultaneously. The cord O runs to any convenient part where it can be easily reached. The bar I is jointed or connected directly to each of the lids F by means of a rigid tongue or connection R, either formed integral with the lid or screwed or fastened securely thereto. The tongues or connections R are adapted for the ready insertion of the rod I, so that said rod can be readily slipped or put in place or removed, as desired. By having a common bar G to act as a hinge for the lids F all the lids are readily removed by withdrawal of bar G. If found advantageous, the number of levers K M can be increased.

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

The combination, with a ventilator, of a series of swinging lids or covers, a bar or rod I for connecting said lids, a tongue or rigid connection R, secured directly to the lids and joined to the bar or rod, and a lever or actuator K for operating the lids simultaneously, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

FRANK DUESTERWALD.

Witnesses:

W. C. HAUFF,

E. F. KASTENHUBER.