

(No Model.)

F. KELLER.  
VENTILATOR.

No. 318,912.

Patented May 26, 1885.

Fig. 1.

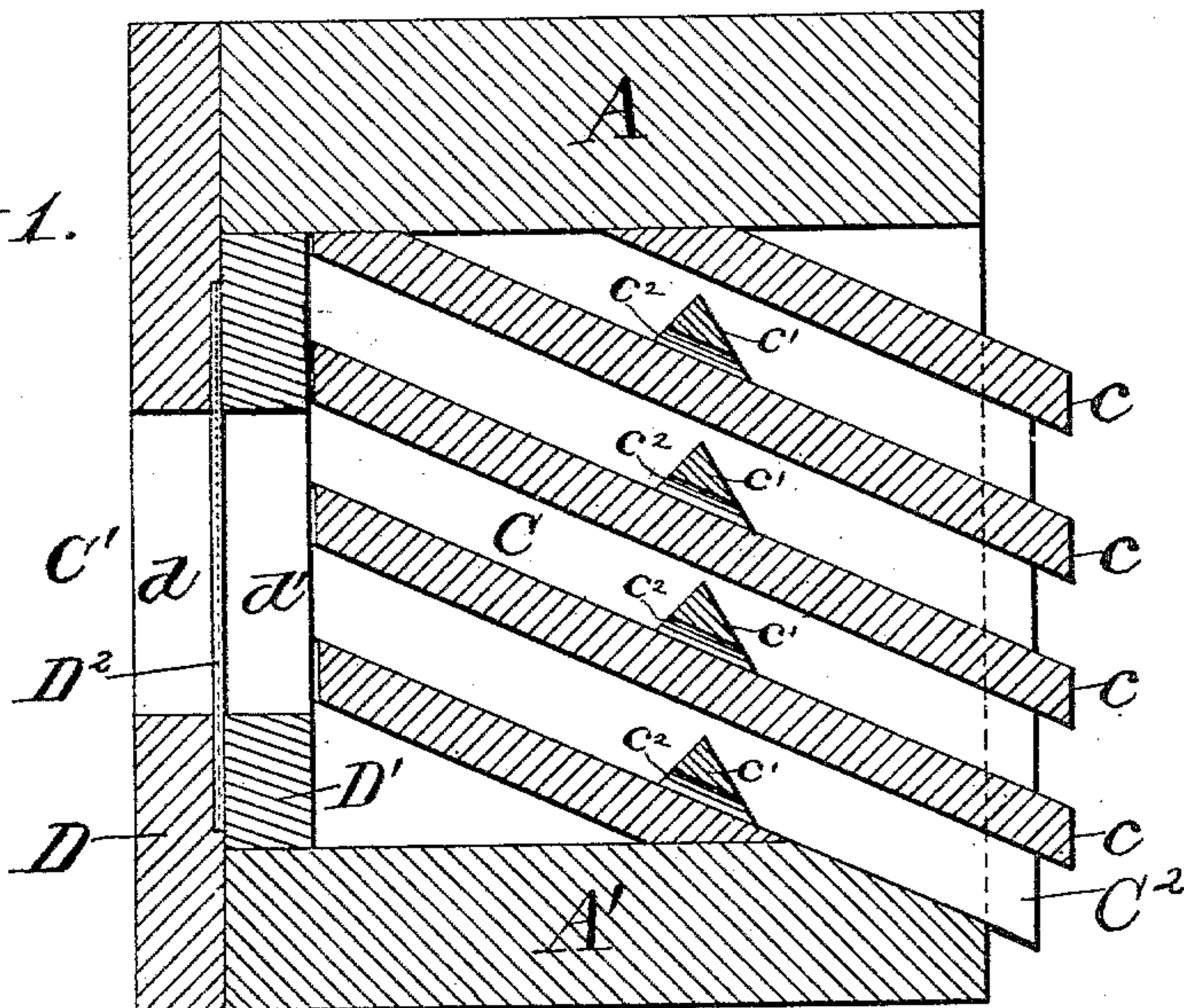


Fig. 2.

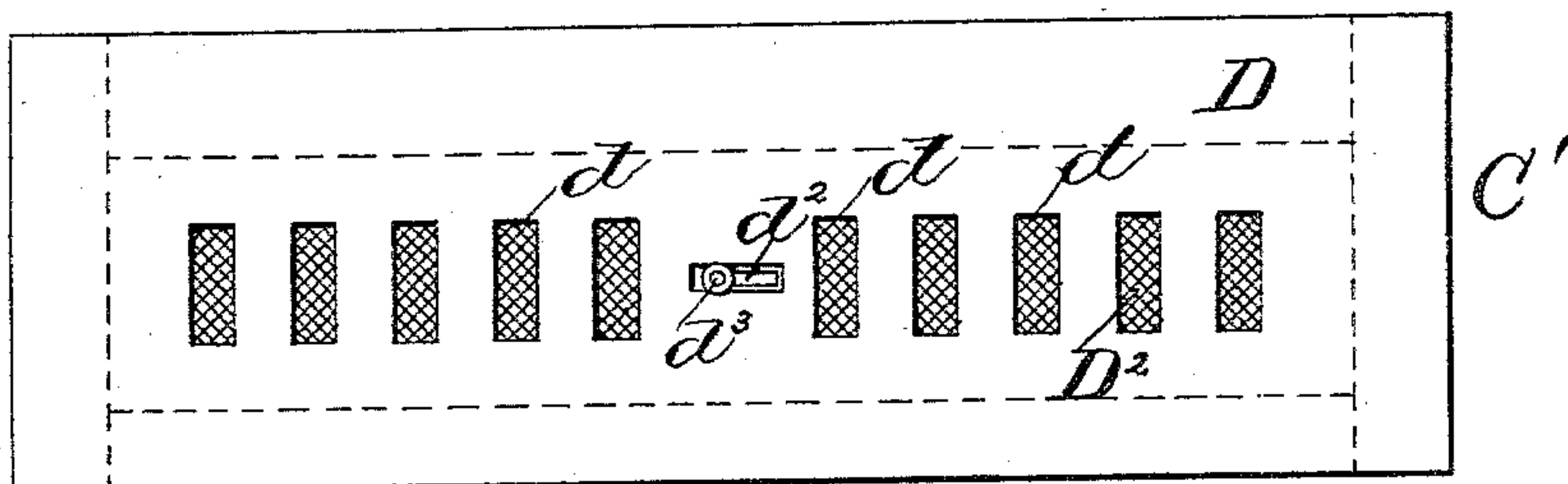
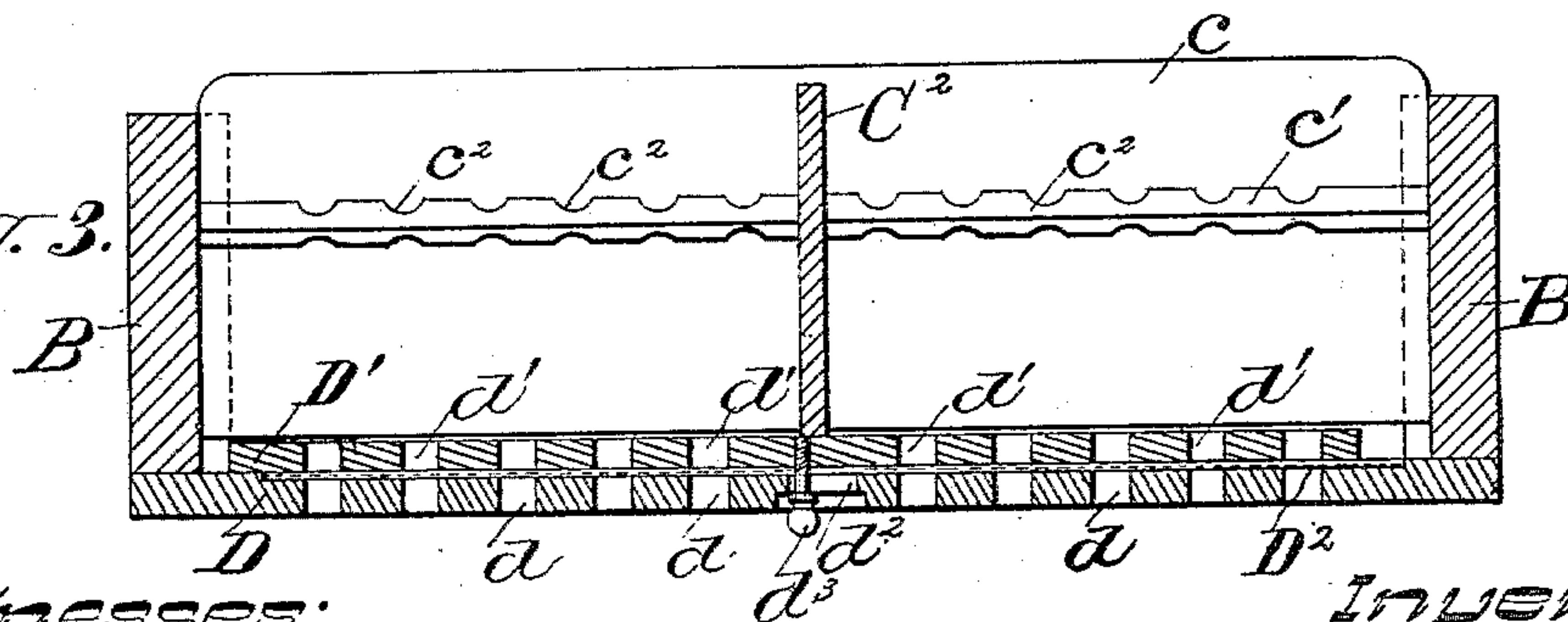


Fig. 3.



Witnesses:

E. Schumacher  
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# UNITED STATES PATENT OFFICE.

FRIEDRICH KELLER, OF MILWAUKEE, WISCONSIN.

## VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 318,912, dated May 26, 1885.

Application filed January 16, 1885. (No model.)

*To all whom it may concern:*

Be it known that I, FRIEDRICH KELLER, of Milwaukee, in the county of Milwaukee and in the State of Wisconsin, have invented certain new and useful Improvements in Ventilators; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to ventilators designed especially for use in connection with window and door frames; and it consists in certain peculiarities of construction, as will be more fully set forth hereinafter.

In the drawings, Figure 1 is a vertical cross-section of my improvement. Fig. 2 is an inside elevation of the same; and Fig. 3 a nearly horizontal section thereof showing in plan view one of the inclined dividing-slats of my improved ventilator.

A A' represent the upper and lower parts of my ventilator-casing, and B B the side parts thereof, leaving the space C, across which are suitably fastened the inclined dividing-slats *c c*, through which and through the register C' at the rear thereof the outer air may be admitted as desired for the ventilation of the apartment.

To guard against rain, hail, or snow being blown in driving storms between the slats of the ventilator and clear through the openings of the register, and to prevent the clogging of the latter from the accumulations of dust, dirt, leaves, and the like carried in by strong winds, I provide a triangular strip, *c'*, fastened transversely across each slat *c* at about the center of the latter or a little in front thereof, as shown, on the upper faces of said slats. These strips are made of a height to almost cover the space intervening between each two adjacent slats, and are provided on the under side with notches *c'' c'' c''* cut transversely of the length of the said strips *c'*, whereby a sufficient supply of fresh air is constantly admitted.

The register C', which forms the rear or inside wall of my ventilator-casing, is constructed as follows: D is a stationary piece, having a row of preferably upright oblong openings, *d d*, at about its center, arranged in horizontal line, as shown, and D' is a movable piece with a corresponding row of openings,

*d' d'*, while between the parts D and D' is a screen, D<sup>2</sup>, to admit air but exclude dust.

C<sup>2</sup> is a partition which may be placed, if desired, in the center of the opening C of the ventilator-casing, and to which the slats *c* may be secured, or this partition may be omitted and the said slats extend entirely across the space C, as preferred. In the center of the board D there is another oblong opening, but horizontal instead of vertical, (marked *d''*), and through this and through a corresponding opening cut in the screen D<sup>2</sup> there extends the pin *d'''*, whose inner end is secured in the movable piece D', which is thereby moved to close or open the register, as desired.

My hereinbefore-described ventilator is particularly applicable to a double-window system of ventilation, such as is described in my application filed May 19, 1884. Serial No. 131,991, as in such cases the windows cannot conveniently be opened during the cold months; but a supply of fresh air may at all times be secured by my device notwithstanding, and yet all air may be instantly cut off by the register C' whenever found desirable; but my present invention is applicable whenever and wherever houses or other buildings require ventilation, and may be applied to cars, vessels, elevators, &c.

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

1. In a ventilator, the combination of an open frame or casing with inclined flat boards or slats *c c* extending entirely across the opening between the sides of the casing, the transverse notched strips *c' c'*, and register C', substantially as set forth.

2. In a ventilator, the combination, with the frame or casing, of the inclined slats *c c*, provided with the transverse strips *c' c'* on their upper faces, the said strips having notches or holes *c'' c''*, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

FRIEDRICH KELLER.

Witnesses:

H. G. UNDERWOOD,  
E. G. ASMUS.