

(No Model.)

A. OLSEN.  
VENTILATOR.

No. 318,494.

Patented May 26, 1885.

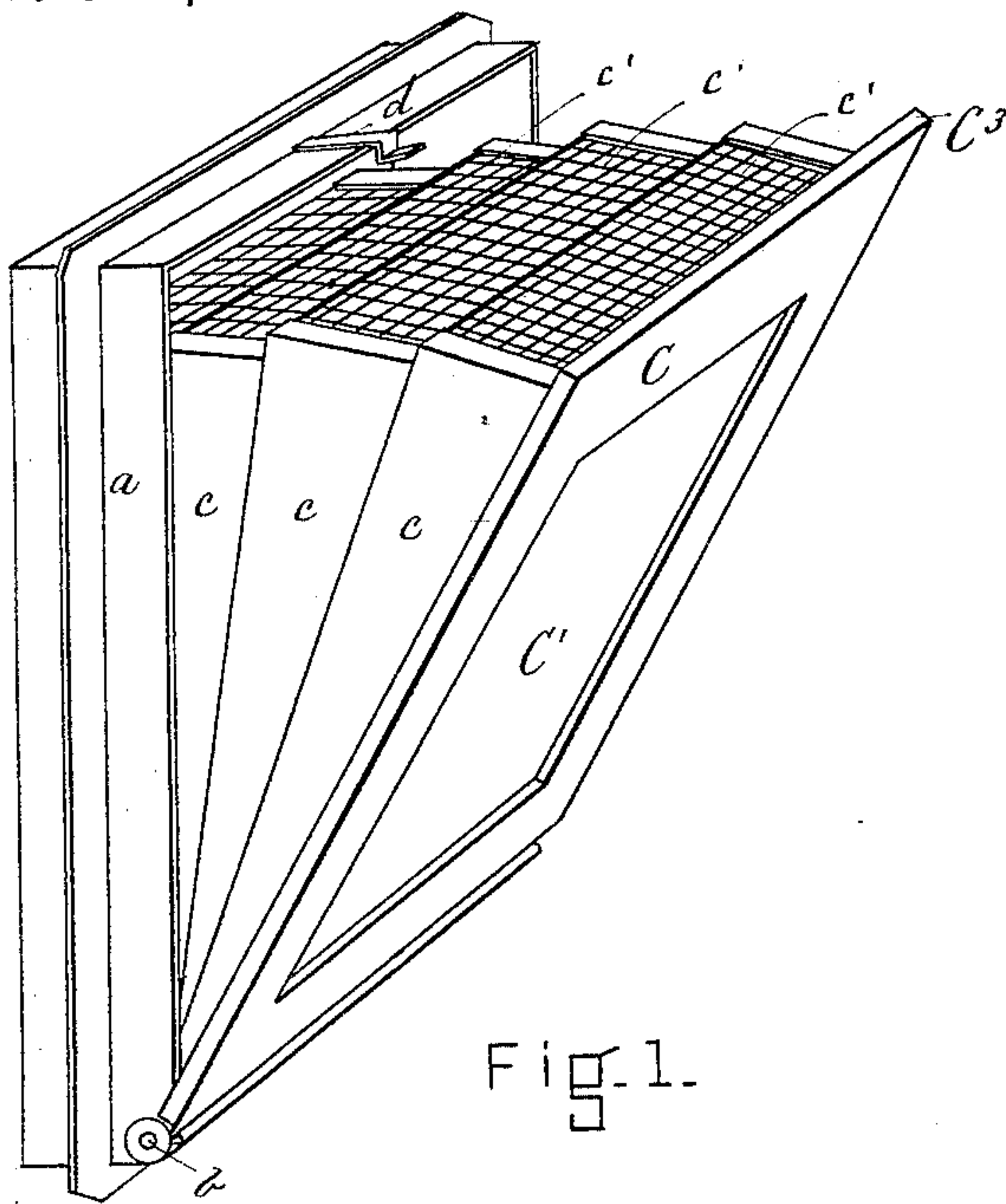


Fig. 1.

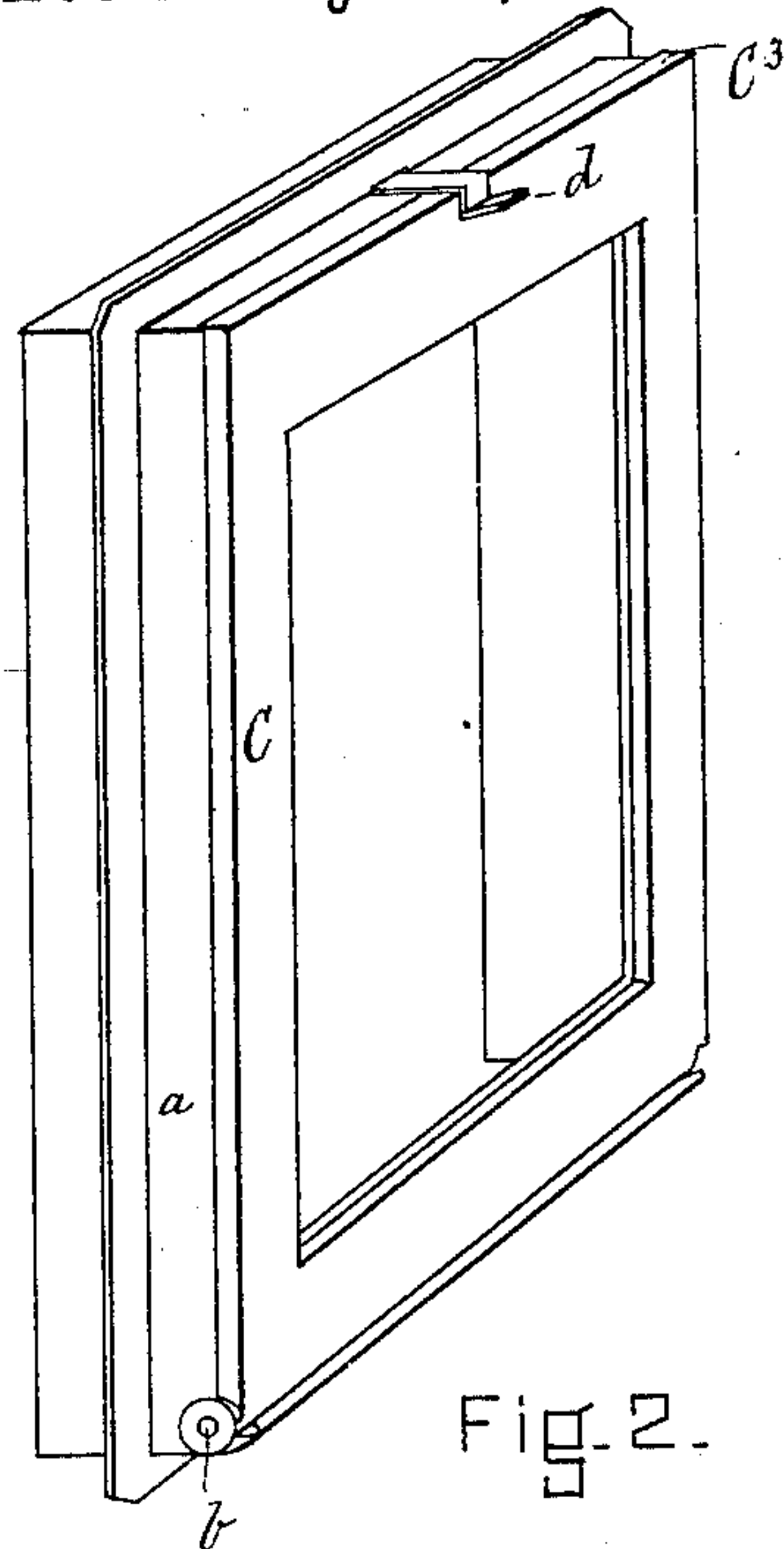


Fig. 2.

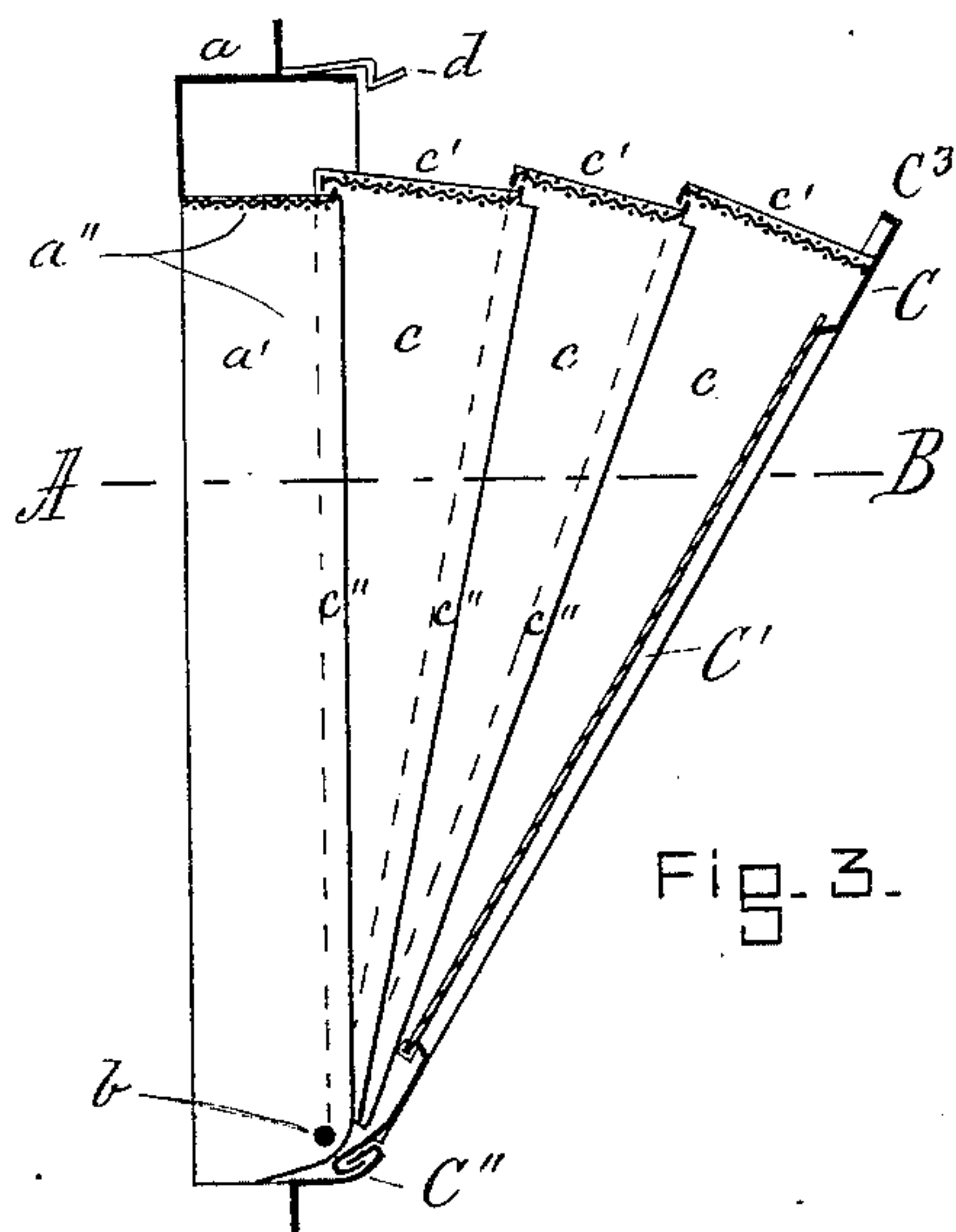


Fig. 3.

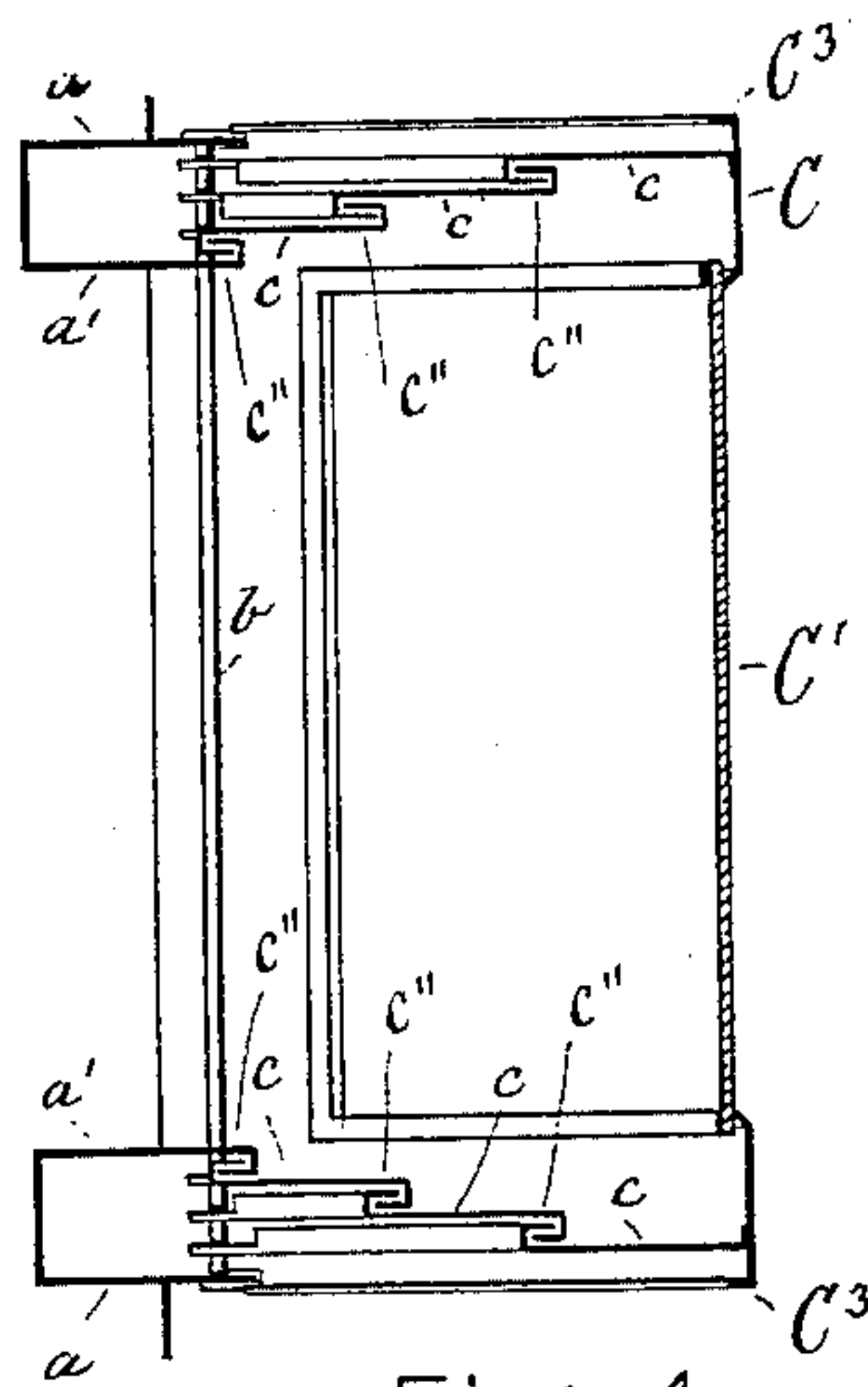


Fig. 4.

WITNESSES.

*Charles H. Fogg.*

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INVENTOR.

*Adolph Olsen.*

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*his atty.*

# UNITED STATES PATENT OFFICE.

ADOLPH OLSEN, OF BOSTON, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO  
ALBERT HABERSTROH, FRANK A. LUDWIG, AND CHARLES J. OLSEN,  
ALL OF SAME PLACE.

## VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 318,494, dated May 26, 1885.

Application filed March 18, 1885. (No model.)

*To all whom it may concern:*

Be it known that I, ADOLPH OLSEN, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain  
5 new and useful Improvements in Ventilators; and I do hereby declare that the same are fully described in the following specification and illustrated in the accompanying drawings.

This invention relates to improvements in  
10 ventilators, and it is carried out as follows, reference being had to the accompanying drawings, where—

Figure 1 represents a perspective view of the improved ventilator as expanded while  
15 in use, and Fig. 2 represents it in a closed position. Fig. 3 represents a central longitudinal section of the invention; and Fig. 4 represents a cross-section on the line A B, shown in Fig. 3.

20 Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

The invention has for its object to permit fresh air to enter a room, and in so doing to  
25 conduct the air into the room with an upward current, and to exclude it from passing through the sides or front of the ventilator, thus obtaining the most beneficial results. It is particularly well adapted to be attached to a  
30 window-sash in place of a pane of glass after the latter is removed, although it is equally useful for conducting fresh air into rooms through perforations in the walls or doors, as may be desired. Its front or cover may be  
35 provided with a transparent pane of glass—plain, colored, or ornamented; or the said cover or front may be made solid, to suit tastes and conditions.

The invention consists of the hollow metal  
40 frame *a*, having the inwardly-projecting sides *a' a'*, connected at the top by means of a perforated plate or wire-netting, *a''*, as shown in Figs. 1, 3, and 4.

To the lower portion of the frame *a a'* are  
45 hinged, by means of the wire *b*, (that may be made as one single piece, as shown in the drawings; or it may be made as an independent hinge-pin in each end of the frame,) a series of fan-shaped sides, *c c c*, each pair being  
50 united together at the top by means of the

perforated plates or wire-nettings *c' c' c'*, as shown in Figs. 1 and 3, through which the fresh air is permitted to enter, to the exclusion of dust and insects.

To the innermost one of the series of hinged  
55 sides *c c* is secured the cover *C*, which may be solid or provided with a transparent, opaque, colored, or ornamental pane of glass, *C'*, as may be desired.

To effect a tight joint at the junction of the  
60 lower portions of cover *C* and frame *a*, I overlap the edges of such parts to form a pocket-joint, *C''*, (shown in Fig. 3,) by which the outer air is excluded from entering at the lower part  
65 of the ventilator, whether the latter is closed or open. In a similar manner I overlap the meeting edges of the respective hinged sides *c c c* and stationary sides *a' a'*, so as to form  
70 pocket-joints *c'' c'' c''*, as shown in Fig. 4, by which the outer air is prevented from entering the room from the sides of the ventilator, and by these means all unpleasant side drafts are entirely obviated, while at the same time the whole current of fresh air is directed upward through the perforated plates or nettings  
75 *a'' c' c' c'*, thus insuring the best results of a properly-constructed ventilator.

I prefer to provide the top and sides of the cover *C* with a flanged projection, *C'*, adapted to fit closely over the inner edges of the frame  
80 *a*, so as to make a tight joint between such parts when the ventilator is closed, as shown in Fig. 2, in which condition it may be held by means of a suitable clasp, *d*, or any other well-known locking device.  
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Having thus fully described the nature, construction, and operation of my invention, I wish to secure by Letters Patent, and claim—

The herein-described ventilator, consisting of the frame *a a'* and cover *C*, hinged together,  
90 in combination with a series of overlapping and pocket-jointed side pieces, *c c''*, and their perforated or netted tops *c' c' c'*, substantially in a manner and for the purpose as set forth.

In testimony whereof I have affixed my signature  
95 in presence of two witnesses.

ADOLPH OLSEN.

Witnesses:

ALBAN ANDRÉN,  
CHAS. J. OLSEN.