

(No Model.)

O. B. GRANT.
VENTILATOR.

No. 407,859.

Patented July 30, 1889.

Fig. 1.

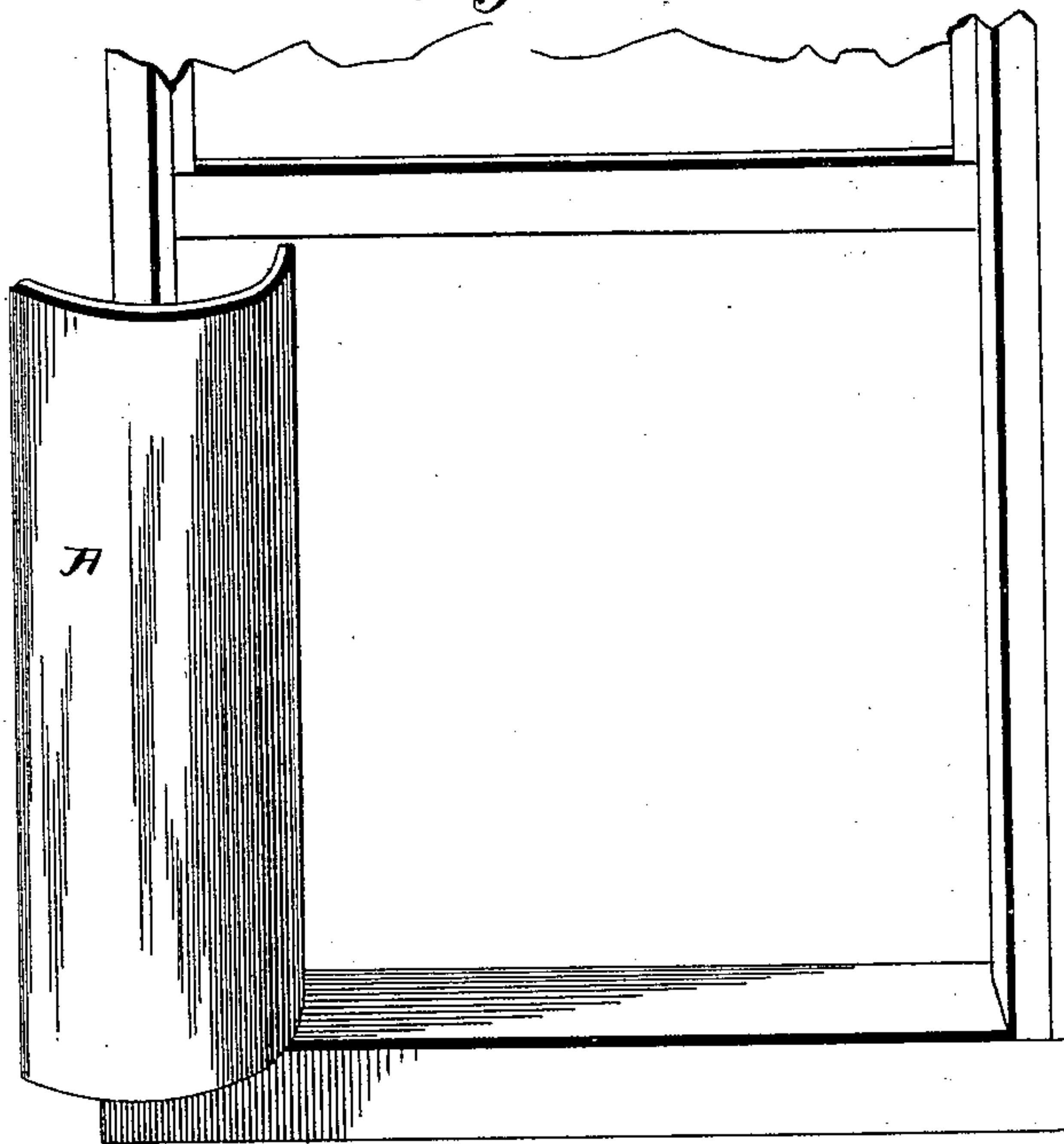


Fig. 2.

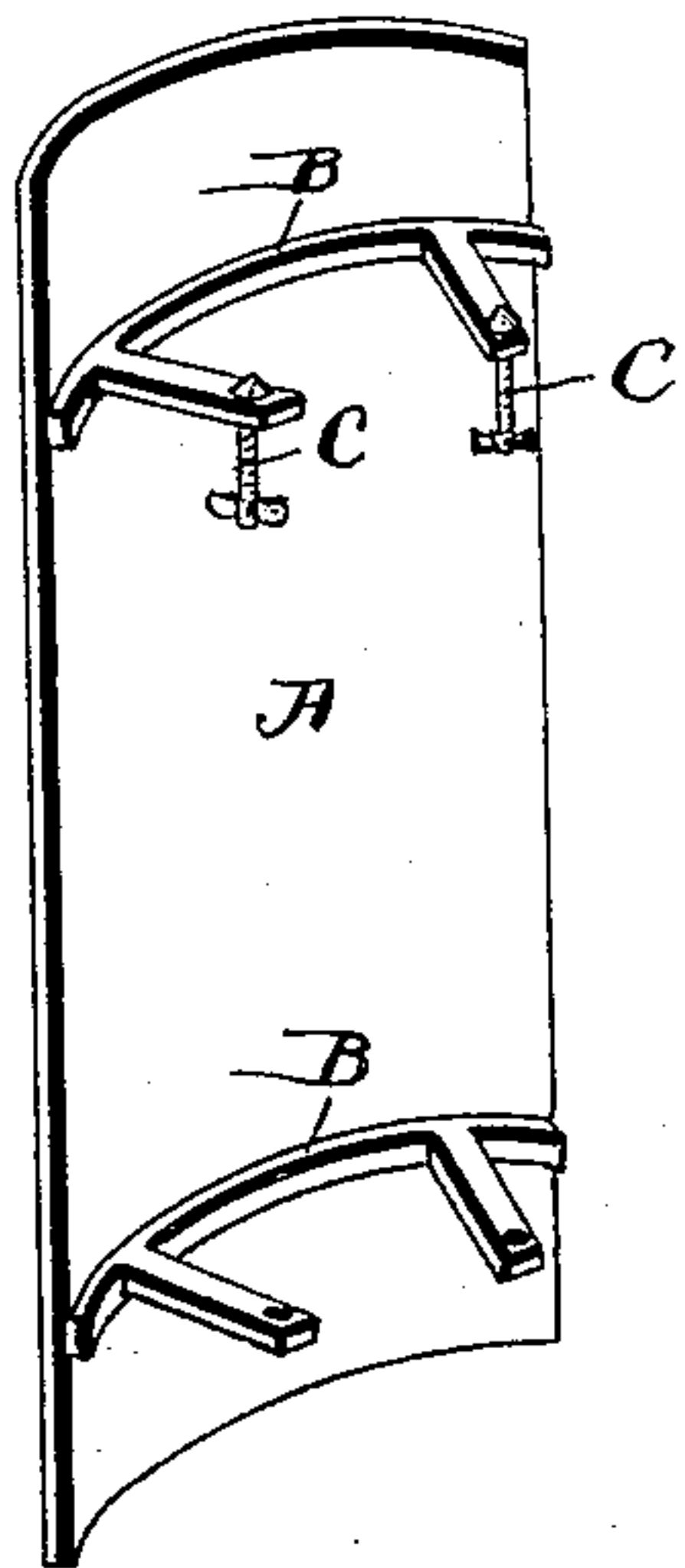
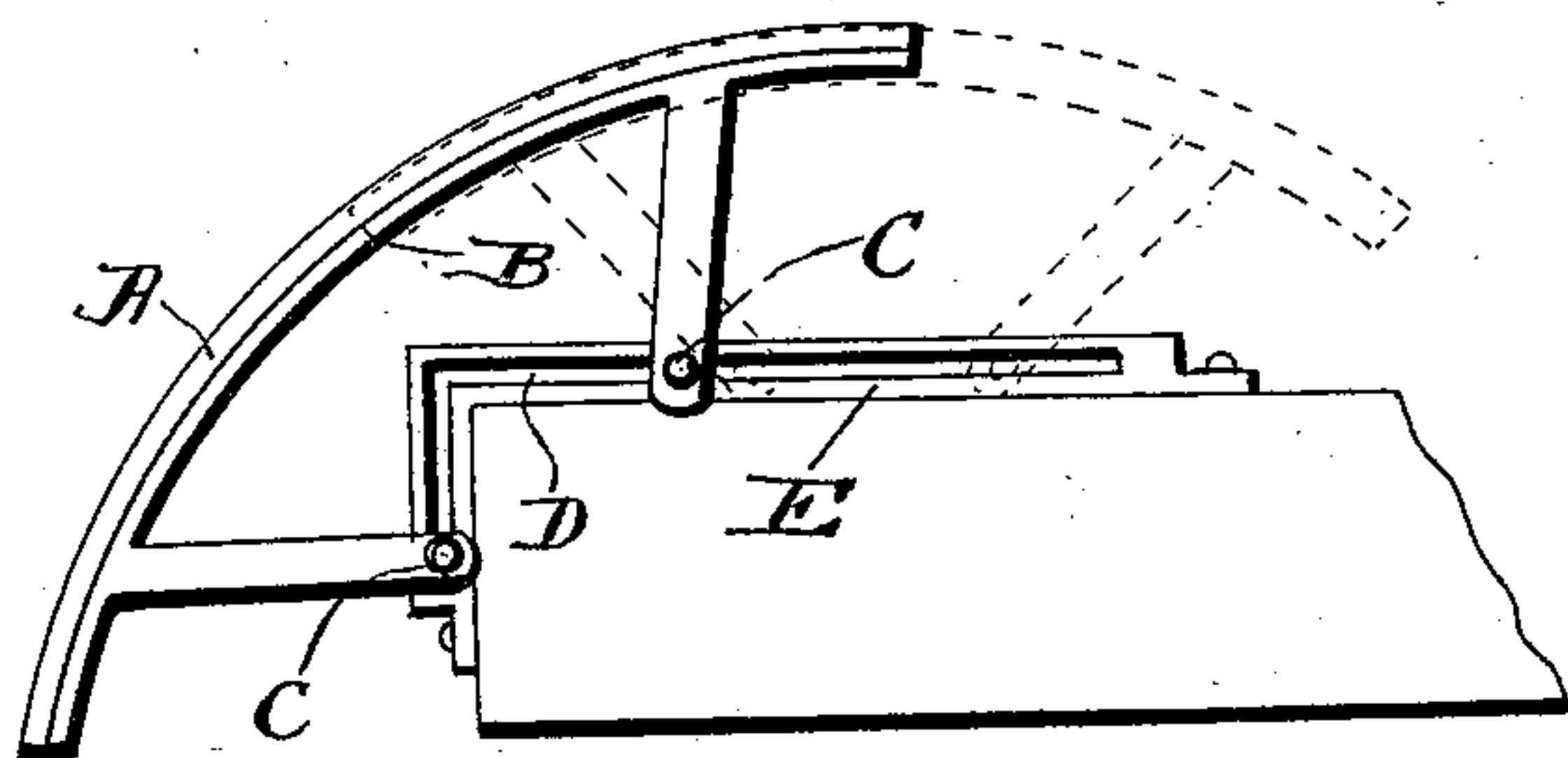


Fig. 3.



Witnesses

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By Two Attorneys

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UNITED STATES PATENT OFFICE.

OSCAR B. GRANT, OF AUSTIN, MINNESOTA.

VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 407,859, dated July 30, 1889.

Application filed March 15, 1889. Serial No. 303,460. (No model.)

To all whom it may concern:

Be it known that I, OSCAR B. GRANT, a citizen of the United States, residing at Austin, in the county of Mower and State of Minnesota, have invented new and useful Improvements in Ventilators, of which the following is a specification.

My invention relates to improvements in ventilators; and it consists in certain novel features, hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a perspective view of my improved device in position on a window. Fig. 2 is a detail perspective view of the ventilator detached. Fig. 3 is a horizontal section.

My invention aims to produce a circulation of air in and through rooms or buildings, and I accomplish this result by employing a vertical deflecting-plate A, which is arranged at one side of the window, so as to deflect the air-currents into the room through the window, as clearly shown in Fig. 1. This deflecting or ventilating plate may be made of any suitable material, and may be curved, so as to form substantially a quarter of a cylinder, or may be given a compound curve, as may be desired. The plate is arranged at a slight distance from the building, so as to leave a space between the building and the plate, through which the air-currents will pass and strike against the inwardly-turned edge of the said plate, and thereby be directed into the room. The deflecting or ventilating plate is made of a length corresponding to the height of the window or door-opening, and its edges may be beaded or secured to a re-enforcing frame, as will be readily understood, in order to give rigidity and strength thereto.

The ventilating-plate may be secured in any desired manner; but I preferably secure it in position by means of stationary frames B, which have their outer sides or edges arched or curved, so as to conform to the outline of the deflecting-plate, as shown, and have the deflecting-plate secured to the said outer curved edges. Bolts C are secured to the inner ends of the frames B and through slots D in the brackets E, which are secured to the window-frame. The said brackets E are provided on both sides of the window, so that the deflecting-plate may be secured at either side, according to the direction in which the wind is blowing. By this construction

the deflecting-plate can be moved around to the side of the building when not in use, as shown in dotted lines in Fig. 3, and can be easily moved back into operative position. The bolts slip along the slots D as the plate is moved, and when the plate has been adjusted to the desired point the device is secured by turning home thumb-nuts mounted on the lower ends of the bolts, so that they will bind against the under sides of the brackets. Instead of this method of securing the deflecting-plate, however, the plate may be secured to the window in any other suitable manner, as will be readily understood.

From the foregoing description it will be seen that I have provided a very simple ventilating device, which can be secured to any building, and which will cause a current of fresh air to enter the building through the window, doors, or other opening to which it is applied, so as to prevent dampness in the room, and thereby create a healthy atmosphere.

In warm weather a room can be made very comfortable by creating a circulation of the air therein by means of my device.

The ventilating-plate can be used as a sign by having a firm name and business painted thereon.

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

1. A ventilating device consisting of a curved plate detachably secured to a window-frame and supported at a slight distance therefrom, and adjustable bodily along its supports, as set forth.

2. A ventilating device consisting of the brackets E, having slots D and secured to a window or door frame, the deflecting-plate, and the frames B, secured to the said plate and carrying bolts engaging the slots D, whereby the plate will be held out from the window, so as to leave an air-passage between the two, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

OSCAR B. GRANT.

Witnesses:

J. M. OXLEY,
C. H. SCOTT.