

No. 706,905.

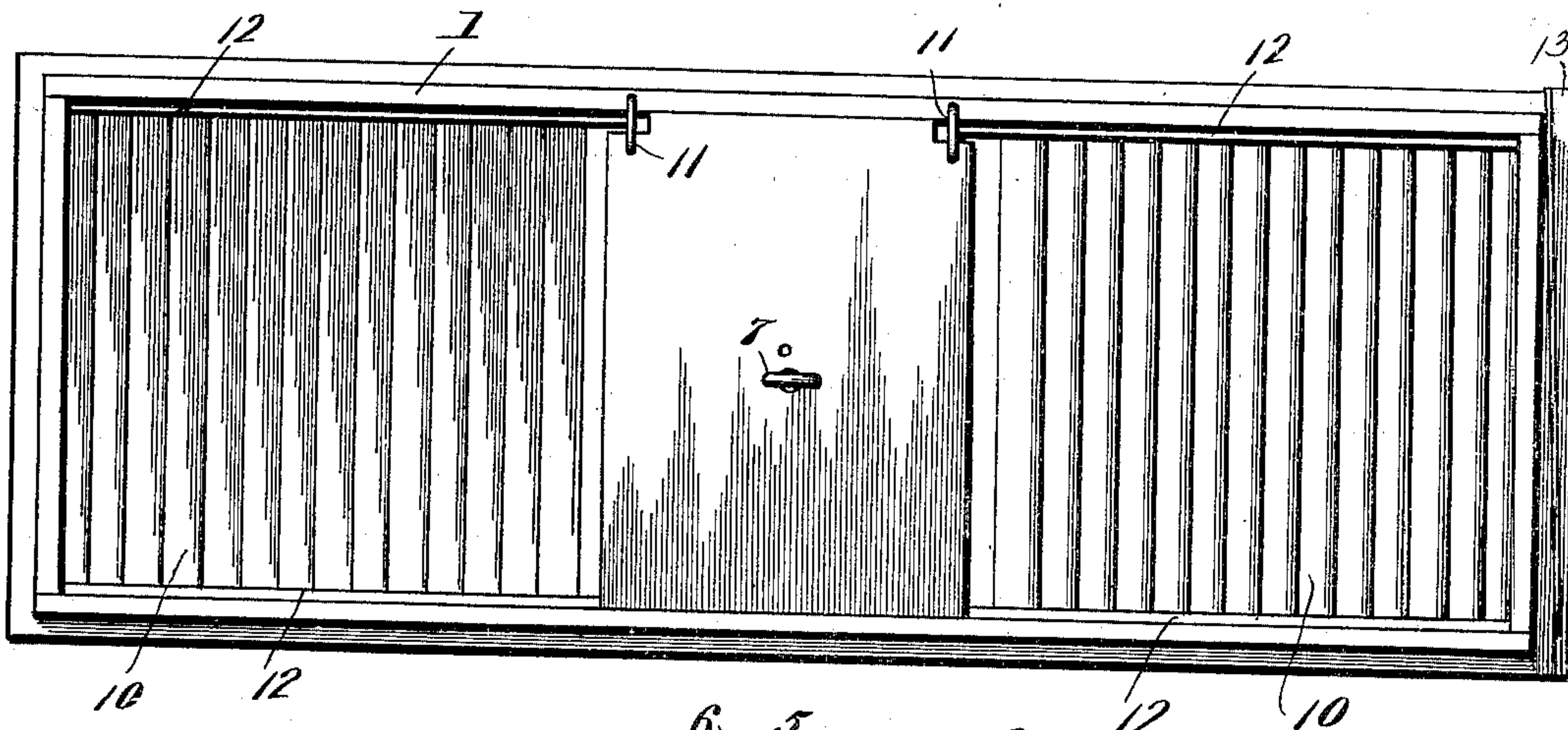
Patented Aug. 12, 1902.

D. O. DAVIS.  
WINDOW VENTILATOR.  
(Application filed Oct. 4, 1899.)

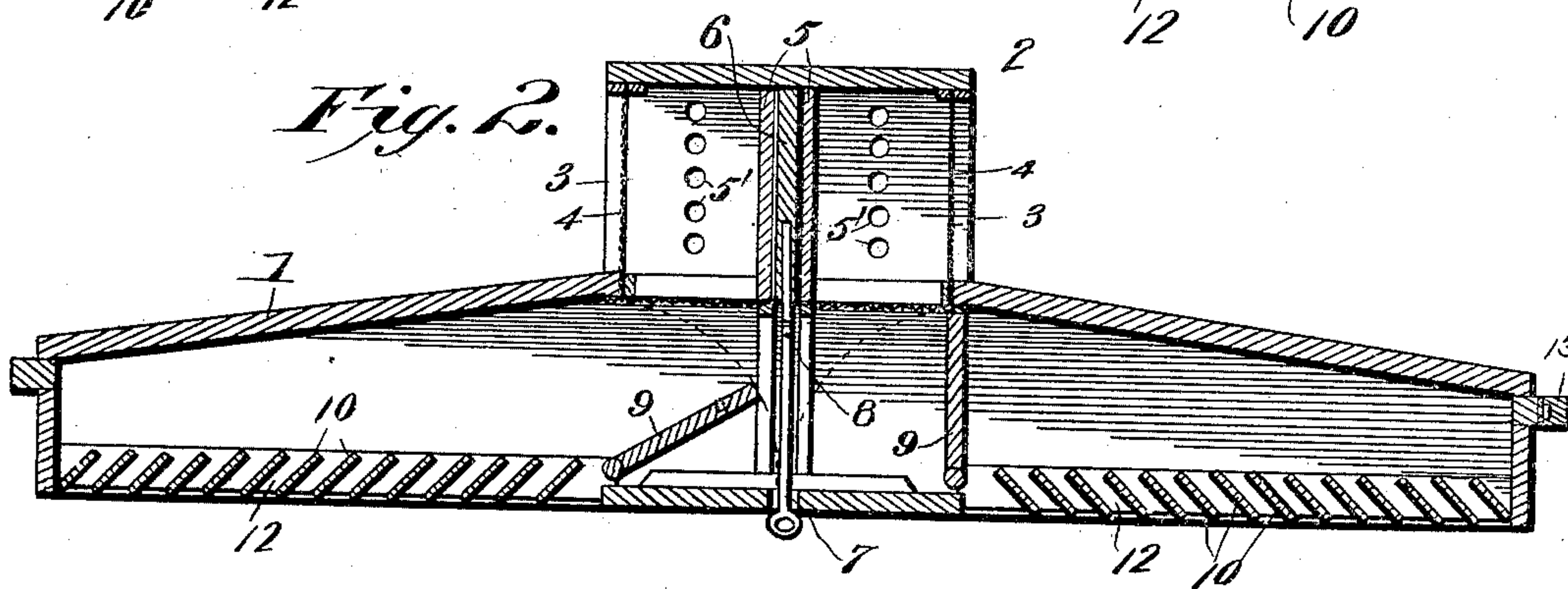
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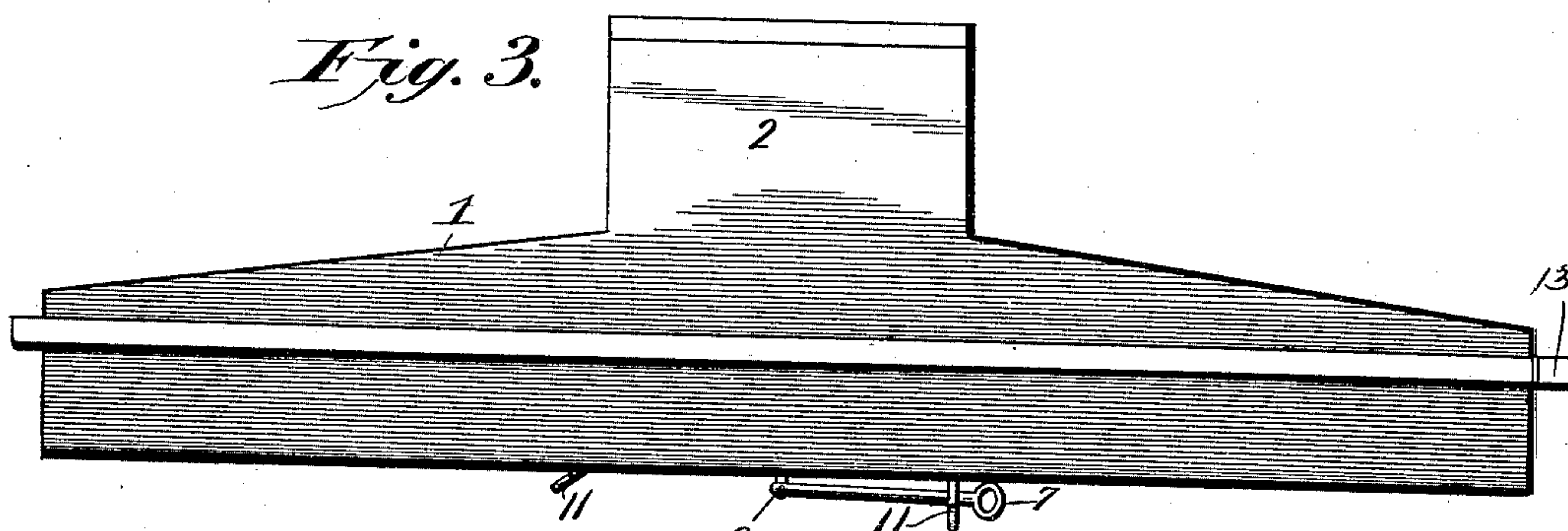
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



Witnesses  
C. H. Walker.  
W. S. [Signature]

David O. Davis, Inventor.  
by Frank S. Appelman  
Attorney

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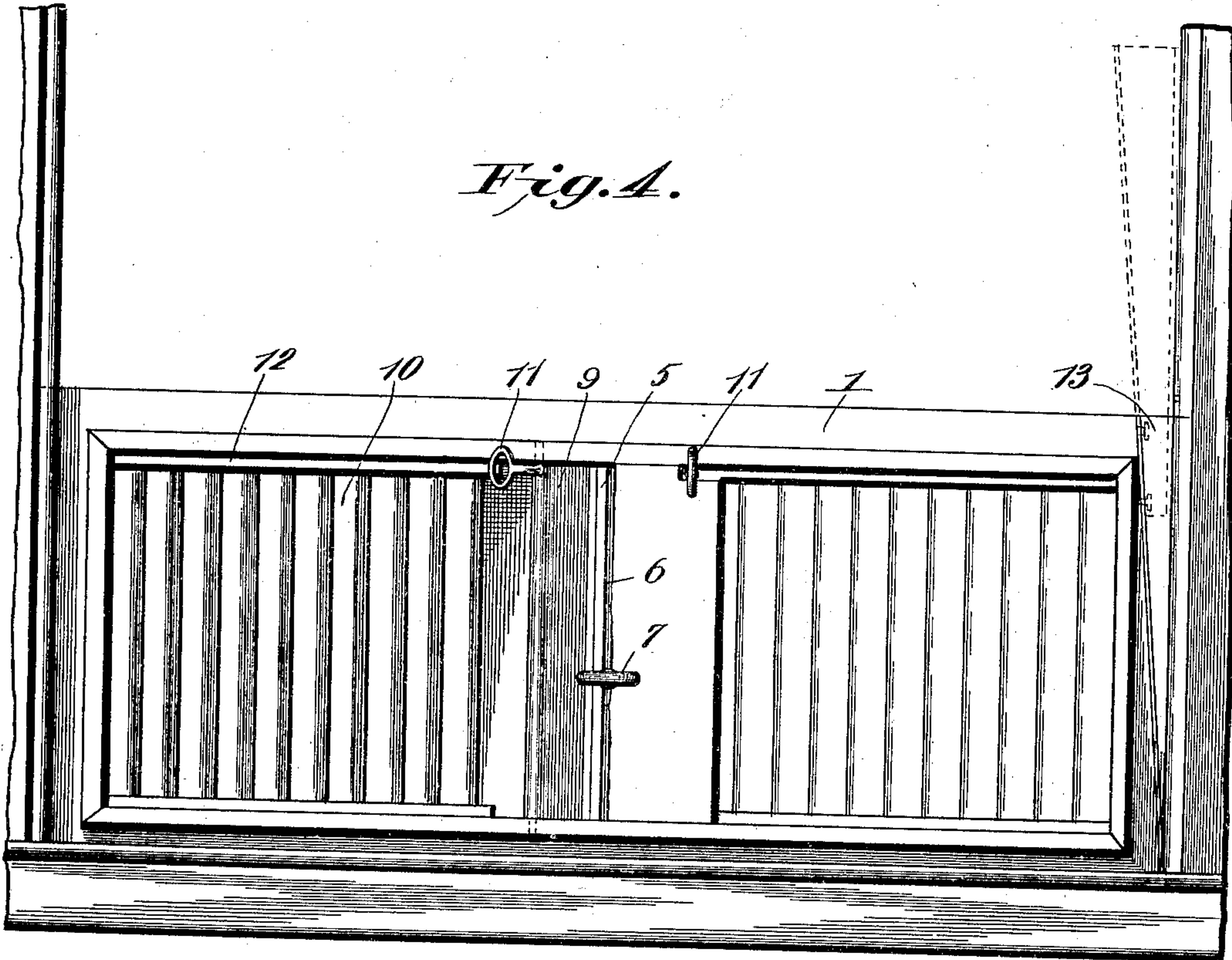
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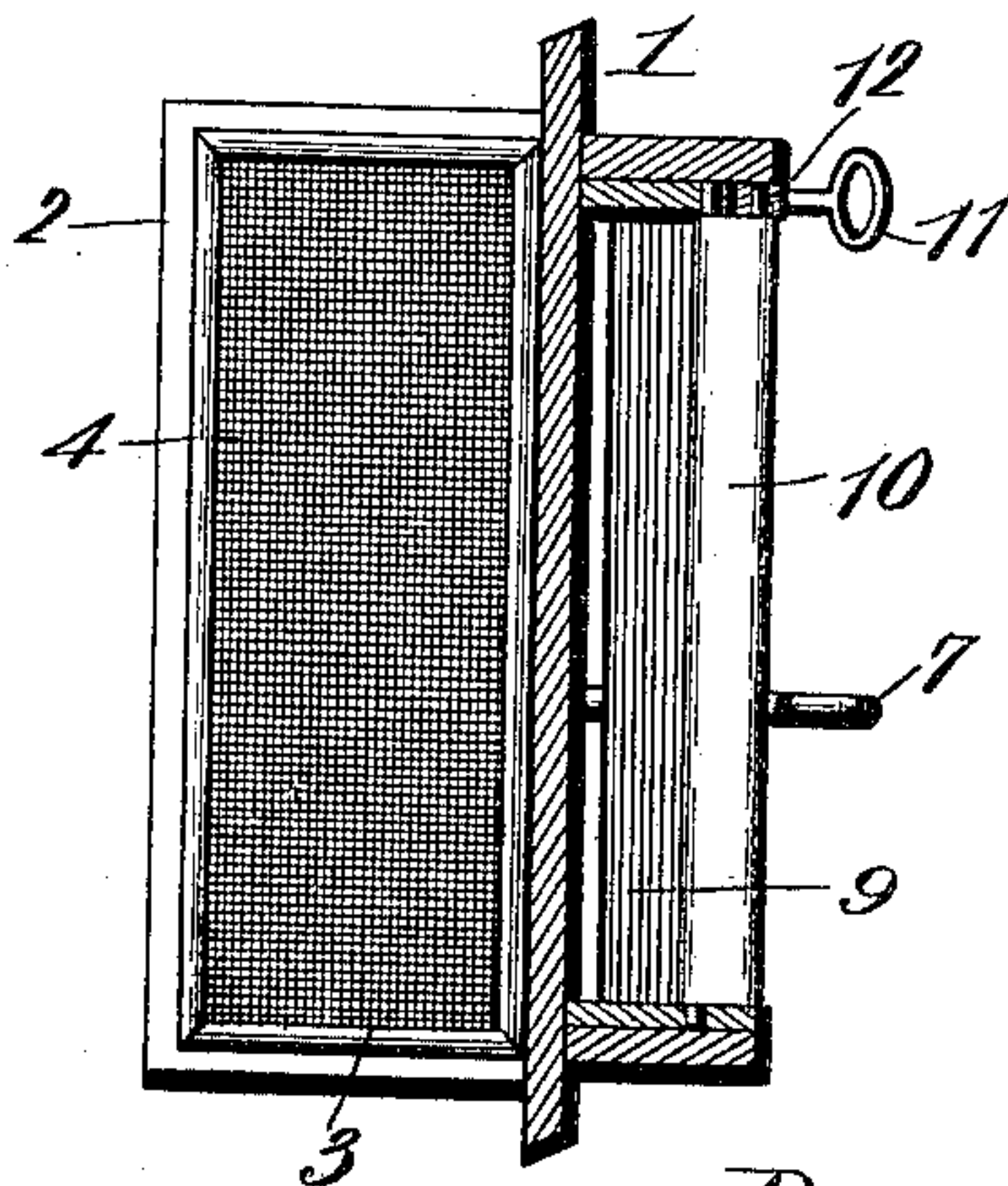
(No Model.)

2 Sheets—Sheet 2.

*Fig. 4.*



*Fig. 5.*



Witnesses

*C. H. Walker,*  
*E. M. Lyons*

Inventor.

*David O. Davis,*

By

*Frank S. Appleman*  
Attorney



# UNITED STATES PATENT OFFICE.

DAVID O. DAVIS, OF ATLANTA, GEORGIA.

## WINDOW-VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 706,905, dated August 12, 1902.

Application filed October 4, 1899. Serial No. 732,470. (No model.)

*To all whom it may concern:*

Be it known that I, DAVID O. DAVIS, a citizen of the United States, residing at Atlanta, in the county of Fulton and State of Georgia, have invented new and useful Window-Ventilators, of which the following is a specification.

This invention relates to improvements in window-ventilators; and the objects of the invention are, first, to permit freer access of air than is permitted by the ordinary window-screens; second, to shut off the draft, if desired, while the screen is in place; third, to control the draft to permit the air to circulate through one part of the screen while excluding it from another part of said screen, and, fourth, to provide for a reverse draft, permitting the ejection of air from within the car through the screen.

With the above and other objects in view the invention consists in the details of construction and in the arrangement and combination of parts to be hereinafter more fully set forth and claimed.

In describing the invention in detail reference will be had to the accompanying drawings, forming part of this specification, wherein like characters denote corresponding parts in the several views, and in which—

Figure 1 is a view in elevation of the inner side of the screen. Fig. 2 is a central horizontal sectional view, and Fig. 3 is a top plan view. Fig. 4 is a view in elevation, showing the ventilator in a window-frame. Fig. 5 is a transverse sectional view showing the pivots of one of the slats.

In the drawings, 1 denotes a suitable casing having formed therewith an extension 2, the said extension being open at the ends 3 and each end being guarded by a screen 4. The bottom of the extension has perforations 5' to permit the escape of rain or snow which may find its way to the interior. The extension 2 is further provided with a slideway formed by the partitions 5, suitably spaced for the reception of the sliding shutter 6. The partition 5 prevents the passage of air directly through the extension 2 and deflects it so that it will pass into the casing 1. The shutter is provided with an operating-rod 7,

having a pivoted joint 8 in such relation to the casing as to allow the rod to break at the joint as it projects beyond the inner surface of the casing. The casing is further provided with the swinging doors 9, which may be set to exclude the air from the wings of the casing or to direct the air thereto, according to requirements. By the use of the sliding shutter 6 and the partitions 5 the casing may be divided, so that air cannot pass from one side to the other of the casing, as said shutter may be drawn back until its inner edge abuts the inner wall of the casing. Slats 10 are provided, so that the air may be cut off or deflected, according as they are set, at the will of the user. The swinging doors are provided with rods 11, which project at the inner surface of the casing in order that the said doors may be set at varying angles of adjustment. The slats are pivoted to the bar 12, so that the movement of one slat is communicated to the series of slats of the casing on one side. A sliding flange 13 is secured at one end of the casing, said flange being tapered in order that it may be wedged in the window-frame for retaining the ventilators.

In operation when the swinging doors are open and the casing is divided by the shutter a partial vacuum will be formed in one side and air will be drawn from the car while fresh air is being injected through the other section.

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

1. In a ventilator, a casing comprising two communicating wings having apertures in their front walls permitting independent communication between each wing and the apartment to be ventilated; an extension projecting from the rear of the casing, open at both ends and communicating with the wings through an opening in its side, a central partition dividing the extension and a movable shutter controlling communication between the two wings, in line with the partition.

2. In a ventilator, a casing comprising two wings having apertures in their front walls permitting independent communication be-

tween each wing and the apartment to be ventilated, means for permitting the circulation of air through the rear wall, means for dividing the casing intermediately its length and  
5 doors for controlling the passage of air through the wings.

In testimony whereof I have signed my

name to this specification in the presence of two subscribing witnesses.

DAVID O. DAVIS.

Witnesses:

ALBERT HOWELL, Jr.,  
ARTHUR HEYMAN.