No. 755,095. PATENTED MAR. 22, 1904.

F. G. YAWMAN.

VENTILATOR.

APPLICATION FILED SEPT. 18, 1902.

NO MODEL.

Fig. 1.

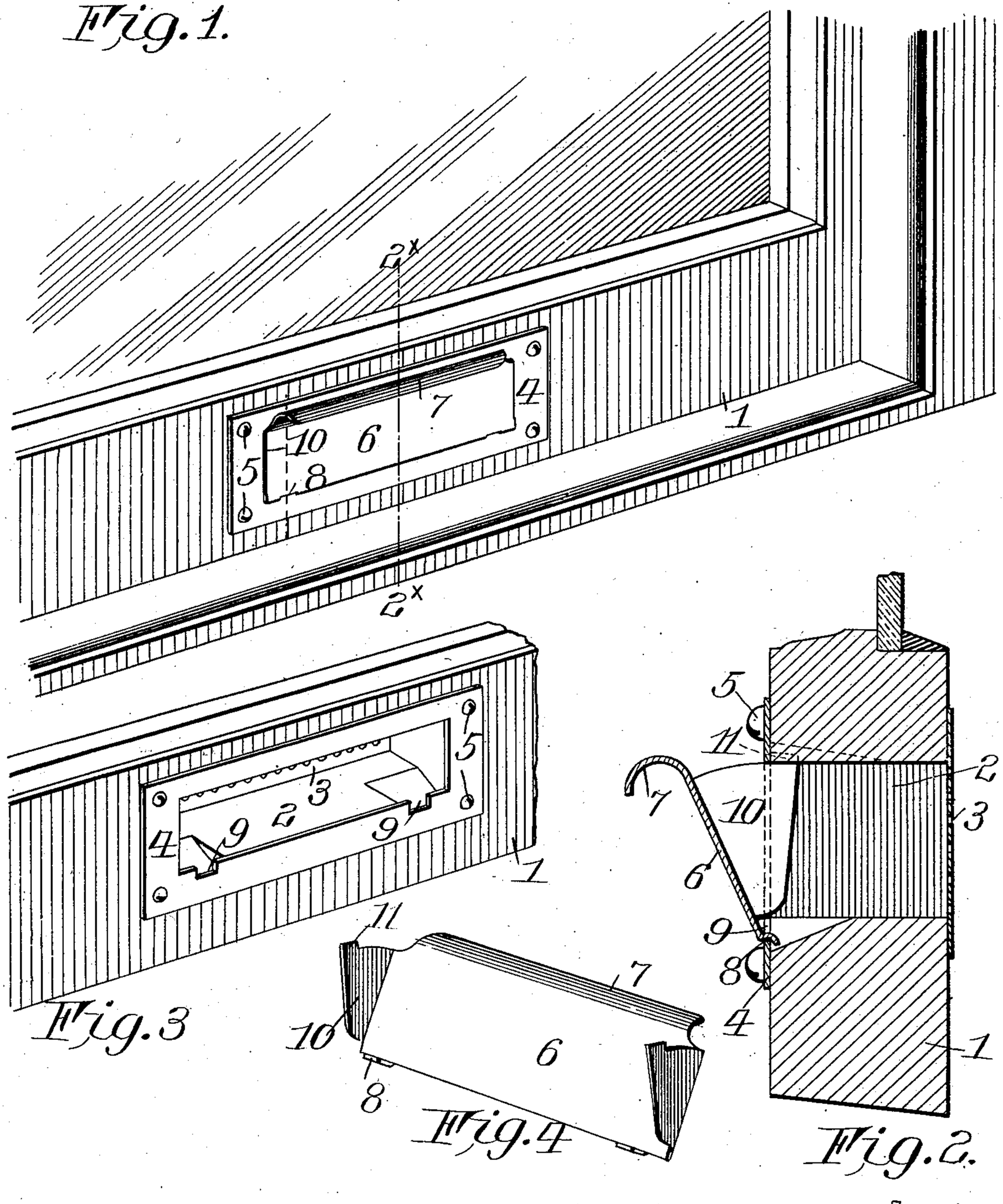

Fig. 3

Fig. 4

Fig. 2.

Witnesses
Walter B. Payne.
G. Willard Rich.

Inventor
Frederick G. Yawman
By
Frederick S. Church
His Attorney

No. 755,095. Patented March 22, 1904.

UNITED STATES PATENT OFFICE.

FREDERICK G. YAWMAN, OF ROCHESTER, NEW YORK, ASSIGNOR OF ONE-HALF TO CHARLES ENGLERT, JR., OF ROCHESTER, NEW YORK.

VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 755,095, dated March 22, 1904.

Application filed September 18, 1902. Serial No. 123,861. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK G. YAWMAN, of Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Ventilators; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and to the reference-numerals marked thereon.

My present invention has for its object to provide an improved form of window-ventilator particularly adapted to be applied to the sash-rail and one that is capable of adjustment and which may also be employed as a lift whereby the window-sash may be raised.

To these and other ends the invention consists in certain improvements and combinations of parts, all as will be more fully described, the novel features being pointed out in the claims at the end of the specification.

In the drawings, Figure 1 is a perspective view showing a portion of a window-sash with a ventilator constructed in accordance with my invention applied thereto. Fig. 2 is a cross-sectional view of the sash-rail and the ventilator thereon, taken on the line $2^{\times}$ $2^{\times}$ of Fig. 1. Fig. 3 is a perspective view of a base-plate, showing its application to the sash-rail; and Fig. 4 is a similar detail view of the closure.

Similar reference-numerals in the several figures indicate similar parts.

A ventilator constructed in accordance with my invention is adapted to be applied to the lower rail 1 of a window-sash, and in the latter is provided a suitable aperture 2, over the outer end of which is preferaply arranged a perforated plate or wire-netting or the like, as indicated by 3. The ventilator is arranged upon the inner side of the sash-rail 1 and over the end of the aperture 2 and embodies a base-plate 4, which is secured to the rail 1 by means of screws 5 or other suitable fastening devices. This plate is provided with an aperture, as shown, which registers with the aperture in the sash-rail, and in order to close the latter, as well as to regulate the amount of air admitted therethrough, I provide a suitable door or closure 6, which is hinged at the lower side to the plate 4, and at its upper edge is an outwardly-extending curved portion or handle 7, which may be engaged when it is desired to elevate the sash to open the window. While any suitable hinge connection may be provided between the door and base-plate, the one which I have shown consists of inwardly-extending members or projections in the form of ears 8, arranged at the bottom of the door or closure and adapted to engage the lower edge of the aperture in said plate; but as the ears are more easily formed at the edge of the door I provide small notches or depressions 9, in which they engage, so that the lower edge of the plate is permitted to extend below the lower edge of the aperture. These ears are held in operative position by means of inwardly-extending members engaging the opposite edge of the aperture, and in the present instance these members are the wings or plates 10, extending inwardly at the ends of the door and projecting through the aperture at opposite ends thereof, thereby preventing any lateral movement of the door or closure. The upper ends of the wings are curved, as shown, and at their inner edges are provided with small lugs or projections 11, which are adapted to engage the rear side of the plate 4 to limit the outward movement of the door upon its pivotal connection with said plate. This arrangement permits the parts to be formed of light sheet metal, and the door or closure being of a single piece may be easily secured in position by inserting the wings 10 thereon through the aperture in the base-plate and then engaging the ears or members 8 with the lower edge of said aperture or recess 9, when they may be bent downward slightly, so as to give them a permanent curve or hook, which extending over the inner face of the plate 4 prevents a subsequent separation of the parts. The ears 8, while they simply curve over the lower edge of the aperture, are held constantly in engagement therewith by the curved edges of the wings 10, which engage the upper edge of the aperture, so

that any upward strain exerted upon the handle 7 is received and borne by the wings, and the latter frictionally engaging the plate 4 serve to support the door or closure in any desired position of adjustment.

The ventilator I have shown and described is simple and consists of parts that are easily formed and attached together and when united are not liable to become broken or disarranged.

I claim as my invention—

1. In a ventilator, the combination with the apertured base-plate, of a second plate or closure pivoted to the base-plate by an open or separable hinge connection at one edge of the aperture having the inwardly-projecting segmental wings at the ends extending through the aperture in the base-plate and bearing upon the upper edge of the opening and having the projections at the ends of said wings adapted to engage the rear side of the base-plate to limit the opening movement of the closure.

2. In a ventilator, the combination with the apertured base-plate, of a closure therefor embodying a plate having an open-hinge connection at its lower edge with the lower edge of the aperture in the base-plate and having the segmental wings at the sides extending through the aperture in the base-plate with their edges engaging one edge of said aperture, and an outwardly-projecting flange at the upper edge of the closure forming a lifting-handle therefor.

3. In a ventilator, the combination with an apertured base-plate, of a closure therefor embodying a plate having segmental wings at the sides, the upper ends of which are adapted to engage the upper edge of the aperture in the base-plate and provided with an outwardly-extending curved lip at the top forming a lifting-handle and having inwardly and downwardly extending lugs at the bottom engaging the lower side of the aperture in the plate to form a hinge connection therewith.

4. In a ventilator, the combination with a base-plate having an aperture and recesses located at the lower edges thereof, of a closure consisting of a plate provided with downwardly-extending projections lying in the recesses on the base-plate, the segmental wings at the ends coöperating with the upper side of the aperture in the base-plate and the projections at the inner ends of the wings adapted to engage the rear side of the base-plate to limit the opening movement of the closure and the outwardly-extending flange at the upper edge of the closure forming a lifting-handle.

FREDERICK G. YAWMAN.

Witnesses:
G. WILLARD RICH,
ELIZABETH J. PERRY.