

No. 666,845.

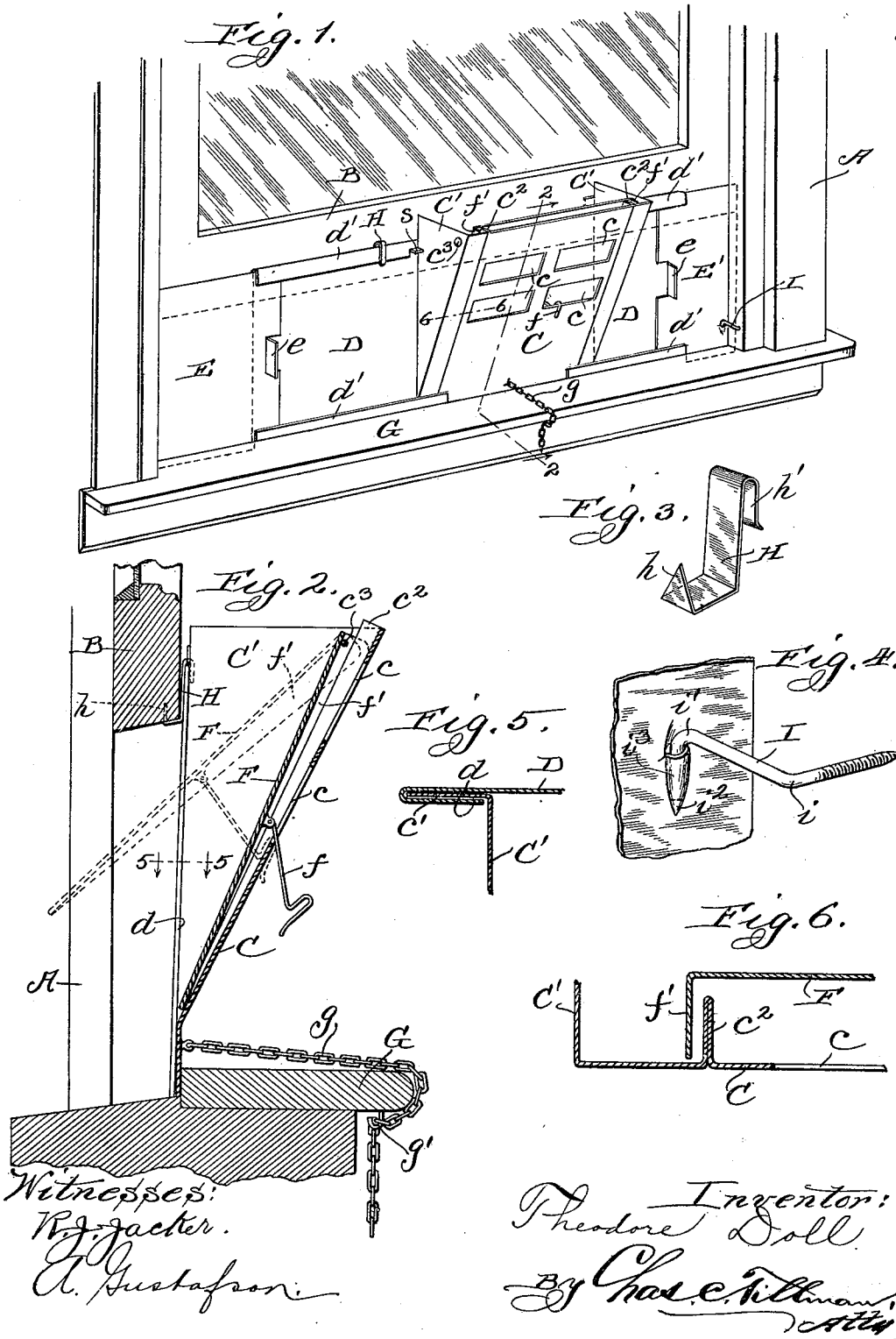
Patented Jan. 29, 1901.

T. DOLL.

WINDOW VENTILATOR.

(Application filed Nov. 9, 1900.)

(No Model.)



UNITED STATES PATENT OFFICE.

THEODORE DOLL, OF CHICAGO, ILLINOIS.

WINDOW-VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 666,845, dated January 29, 1901.

Application filed November 9, 1900. Serial No. 35,956. (No model.)

To all whom it may concern:

Be it known that I, THEODORE DOLL, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Ventilators, of which the following is a specification.

This invention relates to improvements in that class of ventilators to be used in the windows of buildings; and it consists in certain peculiarities of the construction, novel arrangement, and operation of the various parts thereof, as will be hereinafter more fully set forth and specifically claimed.

The objects of my invention are, first, to provide a ventilator which shall be simple and inexpensive in construction, efficient in operation, and easily placed in position in a window-casing and readily removed therefrom; second, to furnish a ventilator which shall be so constructed as to prevent rain coming into the room, but at the same time will be open for the ingress and egress of air, and, third, to furnish a ventilator the parts of which may be readily adjusted, so as to fit window-casings of different sizes.

Other objects and advantages will be disclosed in the subjoined explanation and description.

In order to enable others skilled in the art to which my invention pertains to make and use the same, I will now proceed to describe it, referring to the accompanying drawings, in which—

Figure 1 is a perspective view of the lower portion of a window-casing, showing my ventilator in position as it appears when viewed from the interior of the room. Fig. 2 is an enlarged vertical sectional view taken on line 2 2 of Fig. 1 looking in the direction indicated by the arrows. Fig. 3 is a detached perspective view of one of the holders for the upper portion of the ventilator. Fig. 4 is a similar view of a portion of one of the adjustable slides and a screw-hook for securing the same in position. Fig. 5 is a horizontal sectional view taken on line 5 5 of Fig. 2, and Fig. 6 is a similar view taken on line 6 6 of Fig. 1.

Similar letters refer to like parts throughout the different views of the drawings.

A represents a window-casing of the ordinary or any preferred construction, which is provided, as usual, with an upper and lower sash, the lower sash B only being shown in the drawings.

The body or main part C of the ventilator is preferably made of sheet metal and has in its upper portion a number of openings *c*, which are usually rectangular in shape, as shown in Fig. 1 of the drawings. At its ends the part C is provided with outwardly-extending wings *C'*, the free edges of which have inwardly-extending flanges *c'*, which engage the lapped ends *d* of the extension-pieces *D*, which are provided at their tops and bottoms with flaps *d'* to form guideways for the slide-pieces *E* and *E'*, each of which is provided with an inwardly-extending portion *e* to serve as a handle for moving the piece back and forth, so as to adjust the ventilator to different sizes of window-casings. As is clearly shown in Figs. 1 and 2 of the drawings, the wings or end portions *C'* of the body or main part C taper toward their lower extremities, thus causing the body or part C to occupy an inclined position relative to the window-casing when the device is in position ready for use. The portion C is provided near each of its ends with a vertical rib *c²*, which also tapers toward their lower extremities, as is clearly shown in Fig. 2 of the drawings. Extending from one of the wings *C'* to the other and in their upper portions is a rod *c³*, on which is hung a door or shutter *F*, which is provided at its middle with a hook *f* to be used for engagement with the portion C when it is desired to sustain the door *F* in the position shown by dotted lines in Fig. 2 of the drawings. This door or shutter has at its ends flanges *f'*, which overlap the ribs *c²* on the portion C and will prevent the admission of rain through the openings *c* in the body or main portion of the ventilator.

The central lower portion of the body C has attached thereto a chain *g*, which may be fastened to a suitable hook *g'* on the window-sill *G*, thus serving to securely hold the lower portion of the ventilator in position.

In Fig. 3 of the drawings is shown a holder *H*, which is preferably formed of sheet metal and has a pointed portion *h*, which is driven

into the lower surface or the lower rail of the sash B in such a manner that the hook *h'* on the upper part of the holder H will extend inwardly from the sash and overlap or engage the upper portion of the extension-piece D on each side of the body of the ventilator. It is apparent that I may use any number of these holders; but ordinarily one on each side of the body C is all that is necessary.

10 To fasten the ends of the ventilator, I prefer to use a screw I, having two elbows *i* and *i'* and a hook *i*² to engage a suitable socket *i*³ in the lower portion of the slides E and E'. When using this screw, the screw-threaded portion engages the jamb of the window-frame, as is clearly shown in Fig. 1 of the drawings, and can be readily turned so as to remove the hook *i*² from the socket *i*³ in its respective slide-piece.

20 To assemble the parts, the flanges *c'* on the wings C' of the body or main portion C are inserted in the lapped portions *d* of the extension-pieces D, so that said extension-pieces will project at right angles from the body of the ventilator and in a line with the vertical portions of the said wings. The slides E and E' are then placed in guideways *d'* of the extension-pieces, when the thus-assembled parts may be placed in position between the lower rail of the sash B and the sill of the window-casing. When thus located, the holders H will engage the upper portion of the extension-pieces D and firmly secure said portions in position, while the lower part of the ventilator may be held in position by means of the screw-hooks I and chain *g*.

The door F may be raised to the position shown by dotted lines in Fig. 2 of the drawings, which operation will allow the air to circulate above and below said door, and as the flanges *f'* thereof overlap the ribs *c*² on the body it is apparent that rain will be excluded or prevented from passing into the room.

45 While I have shown the ventilator as being provided with a slide on each side of the body

C, yet it is evident that I may use one slide only and attain the same result.

To more firmly hold the extension-pieces D in position, I provide each of them in their upper portions, near the wings C' of the body, with a projection *s*, which will rest against the side of the wing and prevent the same rattling or moving laterally.

By employing the adjustable door or shutter F and the openings *c* in the body or the main part of the ventilator it is evident that the entering air will be more thoroughly spread—that is, the shutter being on an incline will send part of the air toward the upper part of the room and the openings *c* will admit air on a lower level.

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

1. In a ventilator, the combination with the body or main portion having openings in its upper part and provided at its ends with outwardly-extending wings, of a door or shutter suspended between the upper portion of said wings, an extension-piece engaging the free edge of each of the wings and having guideways at their top and bottom, and a sliding piece located in said guideways, substantially as described.

2. In a ventilator, the combination with the body or main portion having openings in its upper part, and provided at its ends with outwardly-extending wings and near its ends with vertical ribs, of a door or shutter having at its ends flanges to overlap said ribs and pivotally secured to the upper portion of the said wings, an extension-piece engaging the free edge of each of the wings and having guideways at their top and bottom, and a sliding piece located in said guideways, substantially as described.

THEODORE DOLL.

Witnesses:

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