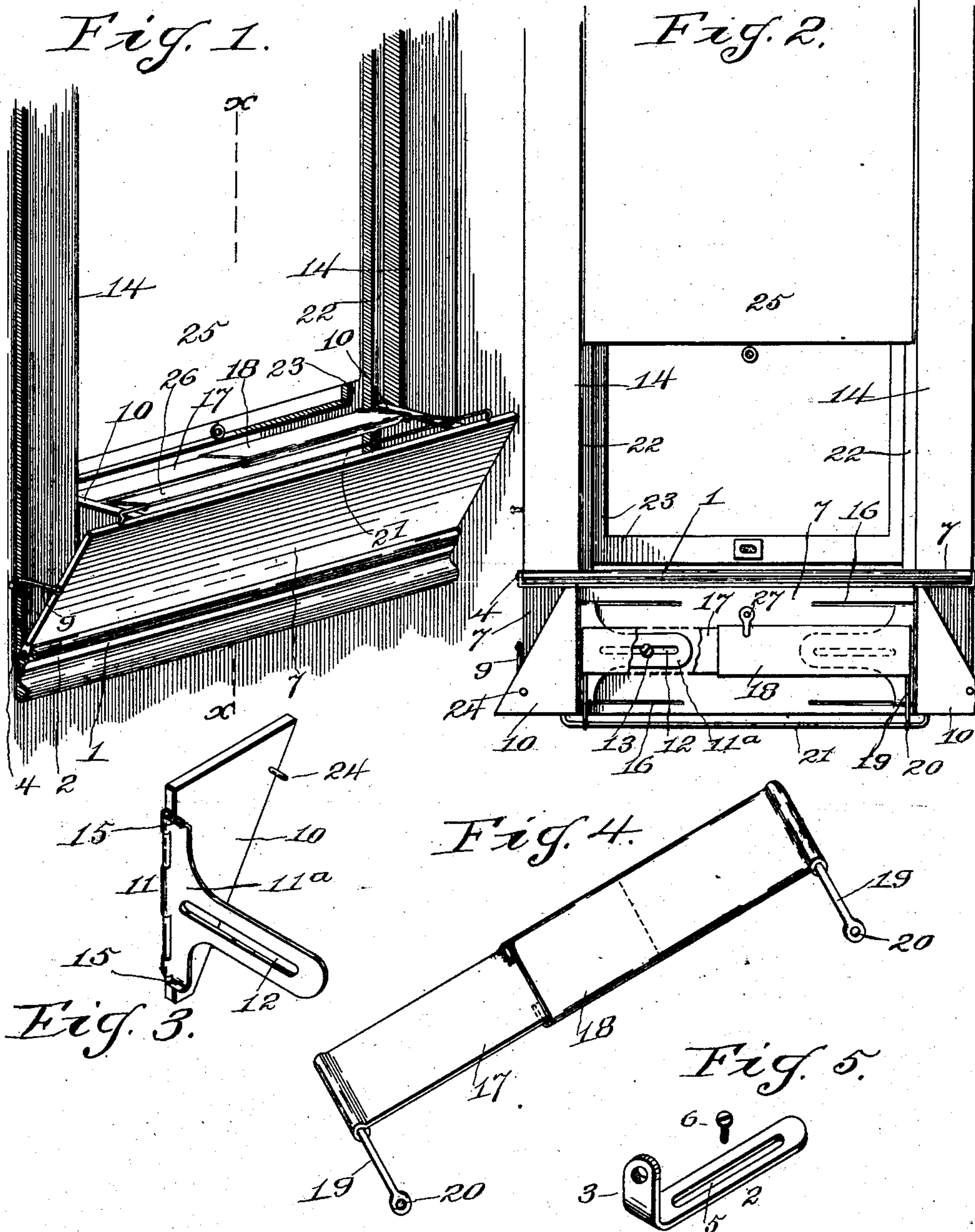


P. H. NEFFLEN & J. F. GIFFEN.
 WINDOW VENTILATOR AND CURTAIN GUARD.
 APPLICATION FILED MAR. 2, 1910.

973,958.

Patented Oct. 25, 1910.

2 SHEETS—SHEET 1.



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Fig. 6.

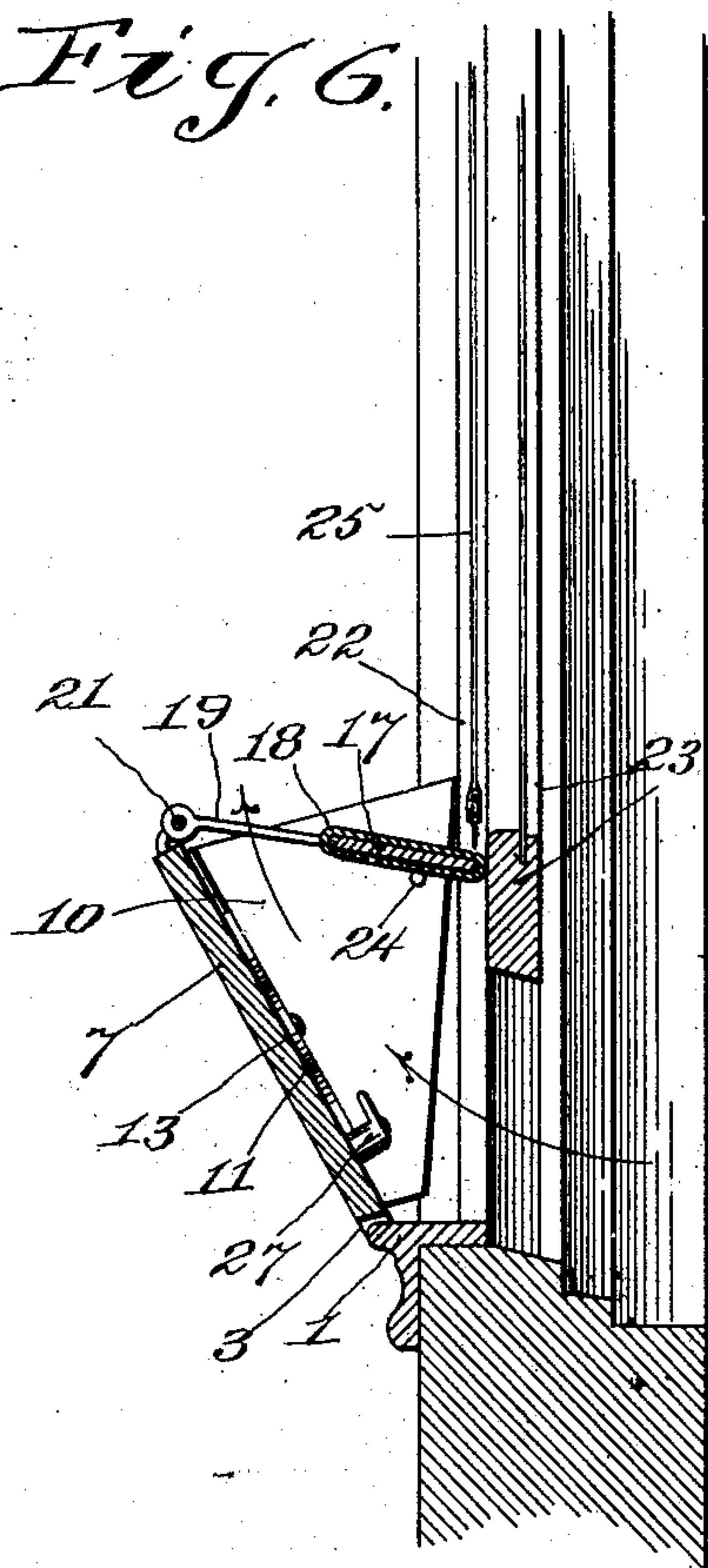
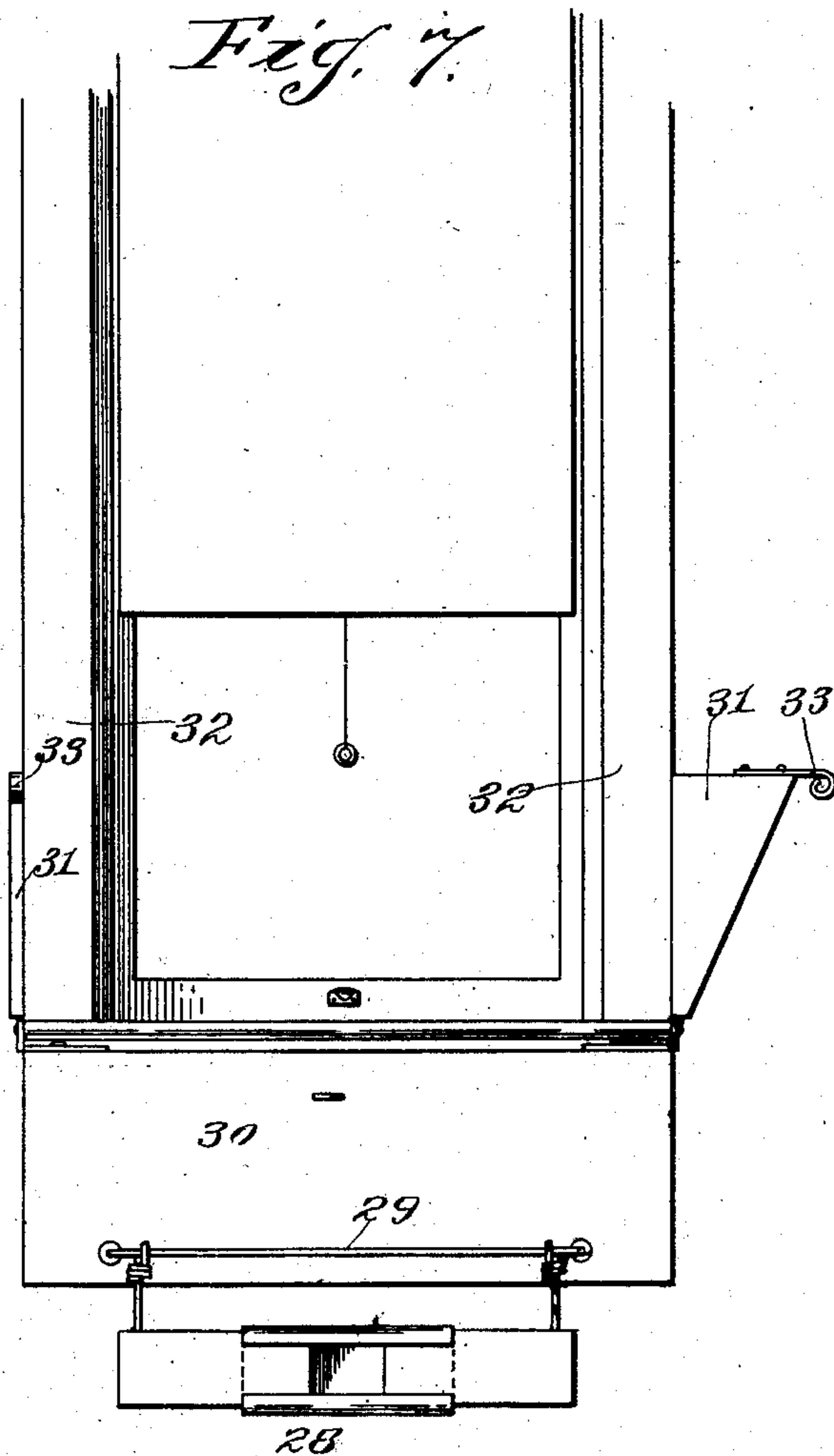


Fig. 7.



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UNITED STATES PATENT OFFICE.

PAUL H. NEFFLEN AND JAMES F. GIFFEN, OF ELKINS, WEST VIRGINIA; SAID GIFFEN
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WINDOW-VENTILATOR AND CURTAIN-GUARD.

973,958.

Specification of Letters Patent.

Patented Oct. 25, 1910.

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To all whom it may concern:

Be it known that we, PAUL H. NEFFLEN and JAMES F. GIFFEN, citizens of the United States, residing at Elkins, in the county of Randolph and State of West Virginia, have invented certain new and useful Improvements in Window-Ventilators and Curtain-Guards, of which the following is a specification.

10 This invention relates to ventilators, and pertains especially to the class of window ventilators having a wind guard or deflector, or draft shield.

15 The object of the invention is to provide an adjustable, foldable or collapsible ventilator adaptable for windows of various size, and attachable to the window-sill so as to be swung into and out of position without detaching it from the window-sill.

20 A further object of the invention is to provide in a window ventilator, means for adjustably hinging the front of the ventilator to a window-sill, means for adjustably hinging the ends of the ventilator to the said front, and a wind-guard of special construction and purpose swingable from the top edge of such front.

30 Other objects, advantages and improved results will be found attainable in the practical application of the invention.

In the accompanying drawings forming part of this application: Figure 1 is a perspective view showing the application of the invention. Fig. 2 is a front view showing the ventilator and its guard hanging from a window-sill. Fig. 3 is a perspective view of one of the ends and its adjusting bracket. Fig. 4 is a perspective view of the guard. Fig. 5 is a detail perspective view of one of the adjusting hinges or pivot plates. Fig. 6 is a sectional view on the line $x-x$, Fig. 1. Fig. 7 is a front view of a modification.

45 The same reference numerals denote the same parts throughout the several views of the drawings.

50 As far as known to applicants, ventilators of this type are either fixed to the window casing and are not removable therefrom when not in use, or they are so attached thereto as to necessitate their removal therefrom when not in use. Deflectors and storm screens have heretofore been used, but without accomplishing the same results as our

wind guard or protector. It is therefore the purpose of our invention to overcome these 55 and other various objections and disadvantages found in the ordinary ventilators and deflectors or wind guards, and to furnish a combination ventilator and wind guard or curtain protector capable of being swung 60 and folded into and out of working position without detaching the same or any of its parts from the window-sill.

It is well known that ventilators of this type are objectionable obstructions when not 65 in use, and when they are in use, the curtain or window shade is threshed or played by the air or wind currents from the ventilator. These and various other objectionable features of the ordinary ventilators are cured 70 by our ventilator and its guard, as will be hereinafter fully set forth.

The ventilator may be attached or swung from the sill 1 of ordinary windows of various size by means of hinges or pivot plates 75 2 having an ear 3 pivoted at 4 to the window-sill, and a slot 5 by means of which and a set-screw 6 the front 7 of the ventilator is connected to the window-sill so that such front may be varied in length according to 80 the width of a window without altering the sill or any other part of the window, and without changing the position of the plates 2, or providing special plates for windows of various widths. Such connection allows 85 the front 7 to be swung into ventilating position where it is held by suitable means such as hooks 9, and the front 7 may be dropped or swung on the pivots 4, from said position under or flush with the inner edge of 90 the sill, where it hangs from said pivots without obstructing the window opening, or interfering with the window shade and curtains, and without protruding from the sill.

The ends 10 of the ventilator are hinged 95 at 11, to bracket plates 11^a, having a slot 12, by means of which, and a set-screw 13, the ends are adjustably secured to the inner face of the front 7, so that they may be slid lengthwise of the front 7 according to the 100 size of a window or the space between the window casings 14. The brackets are provided on their inner face with guide-lugs or flanges 15, which work in grooves or recesses 16 in the front 7, and thereby parallel the 105 plates 11^a. It is obvious that the ends 10

are folded flat against the front 7 when the device is not in use.

The shade protector or wind-guard consists of two members 17 and 18 having
5 rims or edges which telescope for varying the length of the guard; each member is secured to an arm 19 having an eye 20 for loosely hanging the protector or guard on a rod 21 secured to the outer edge of the front
10 7. When the front 7 is hooked into position as hereinbefore described, the ends 10 engage the inner side of the window casings with the free edge of said ends against the window strips 22. The protector or guard
15 is swung inwardly against the window sash 23, and may be supported by stop-pins 24 on the ends 10. In this position the protector is located under the window shade 25, with a space or opening 26 between the inner edge of the protector and the top edge
20 of the front 7, for the free and uninterrupted passage of air currents, while the shade is protected or shielded from the influence of such currents by the protector.
25 This arrangement of the protector not only prevents damage to the shade and the disagreeable effects of the air currents working on it, but the protector being directly over or above the ventilating opening of the win-
30 dow and not over or above the front 7, the ventilating air currents pass in an upwardly direction through said space or opening 26, and are not deflected inwardly from the ventilator, yet the location of the protector
35 directly under the shade protects it from the air currents, without interfering with or influencing the air currents from the ventilator; and said guard closes part of the top opening of the ventilator.

40 When the ventilator is not in use the protector may hang pendent from the rod 21, or it may be held flat against the front 7, by a turn button 27. When the protector is left hanging from the rod 21, the ends 10 may
45 be slid toward each other upon the front 7 so as to bring them within the length limit of the front 7.

Referring to the modification shown in Fig. 7, the protector 28 is hung from a rod
50 29 upon the inner face of a front 30, and the ends 31 instead of being hinged to the front as hereinbefore described, are pivoted to the window casing 32, and are provided with a spring 33 for holding the front in operative
55 position.

It is obvious that various detail changes may be made in the practical construction and connection of the parts, without departing from the spirit of the invention as set
60 forth in the appended claims.

Having thus described our invention what

we claim as new and desire to secure by Letters Patent is:

1. The combination, with a window ventilator having closed ends, and a pivoted
65 front, of a wind guard hung within the ventilator and closing part of the top opening of the ventilator, means for swinging the front above and below the window sill and means for hanging the guard. 70

2. The combination, with a window ventilator having a front pivoted to the window sill, of a wind guard, arms connected with the front of the ventilator and holding the guard against the window for closing part
75 of the top of the ventilator and means for swinging the front above and below the window sill without detaching it therefrom.

3. The combination, with a window ventilator comprising a front, and ends, of pivot
80 plates for swinging the front above and below the window-sill, brackets adjustable on the front and having said ends hinged thereto, a wind guard pivoted to the said front and adapted to swing from its pivot during
85 the said swinging movements of the front, and means for holding the front above the sill.

4. The combination, with a window ventilator comprising a front portion, hinged end
90 portions, means for adjusting the end portions lengthwise the front portion, and means for swinging the ventilator into and out of ventilating position without detaching it from the window, of a rod extending
95 lengthwise the free edge of the front portion, arms pivoted on the rod, and a wind guard secured to the free ends of the arms.

5. In a foldable window ventilator, the combination, with the front portion thereof
100 having grooves, plates pivoted to the window-sill and having the front adjustably secured thereto, and end portions, of a pair of brackets having said ends hinged thereto and having projections engaging the grooves
105 in adjusting the brackets lengthwise the front, a rod secured to the front, a wind guard adjustable lengthwise, arms pivoted to the rod and attached to the ends of the guard, means for holding the guard folded
110 on the front, and means for holding the front in ventilating position.

In witness whereof we hereunto set our hands in the presence of two witnesses.

PAUL H. NEFFLEN.

JAMES F. GIFFEN.

Witnesses to Paul H. Nefflen's signature:

JARED L. WAMSLEY,

F. C. SOMERVILLE.

Witnesses to James F. Giffen's signature:

P. B. GOUGH,

B. N. COOPER.