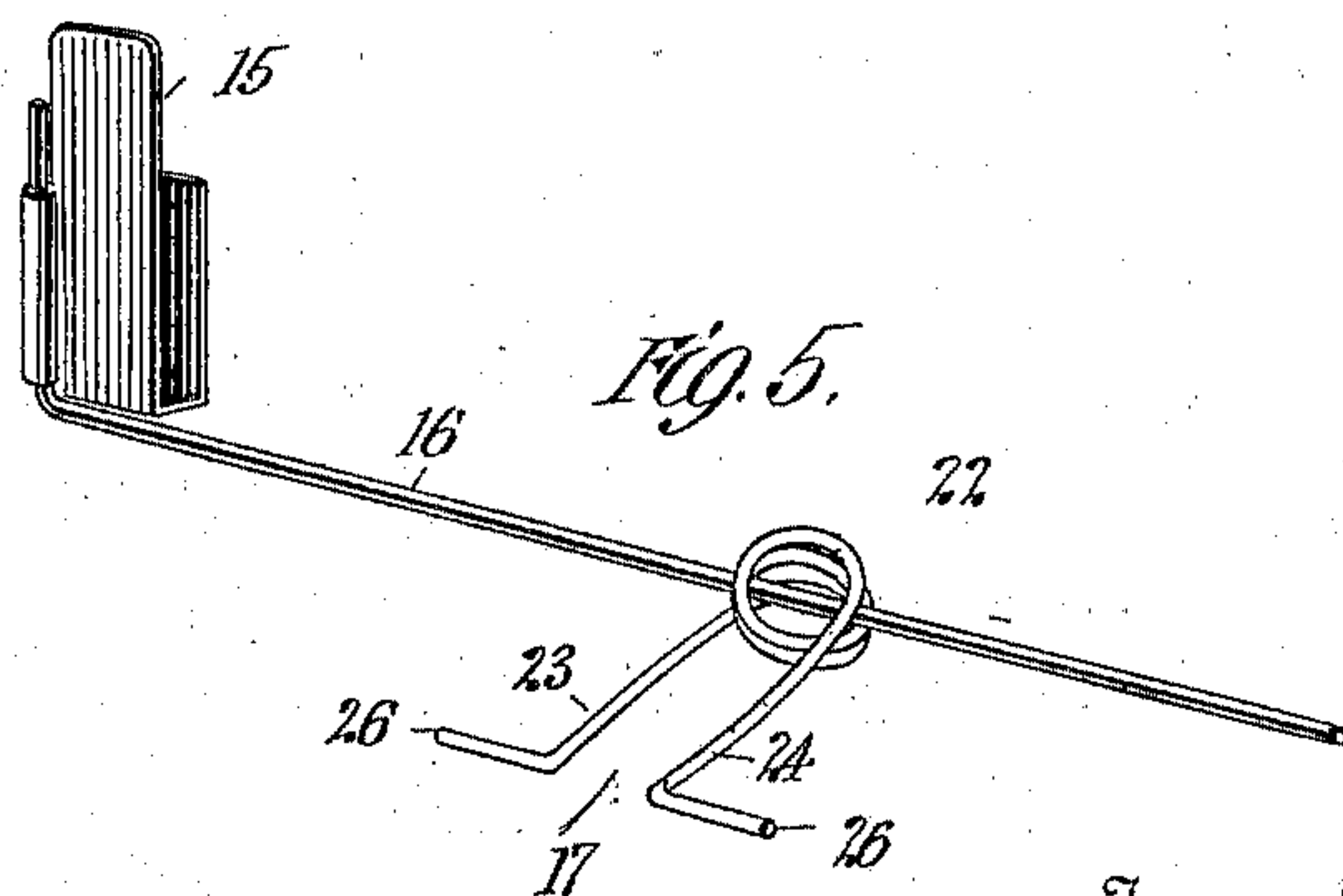
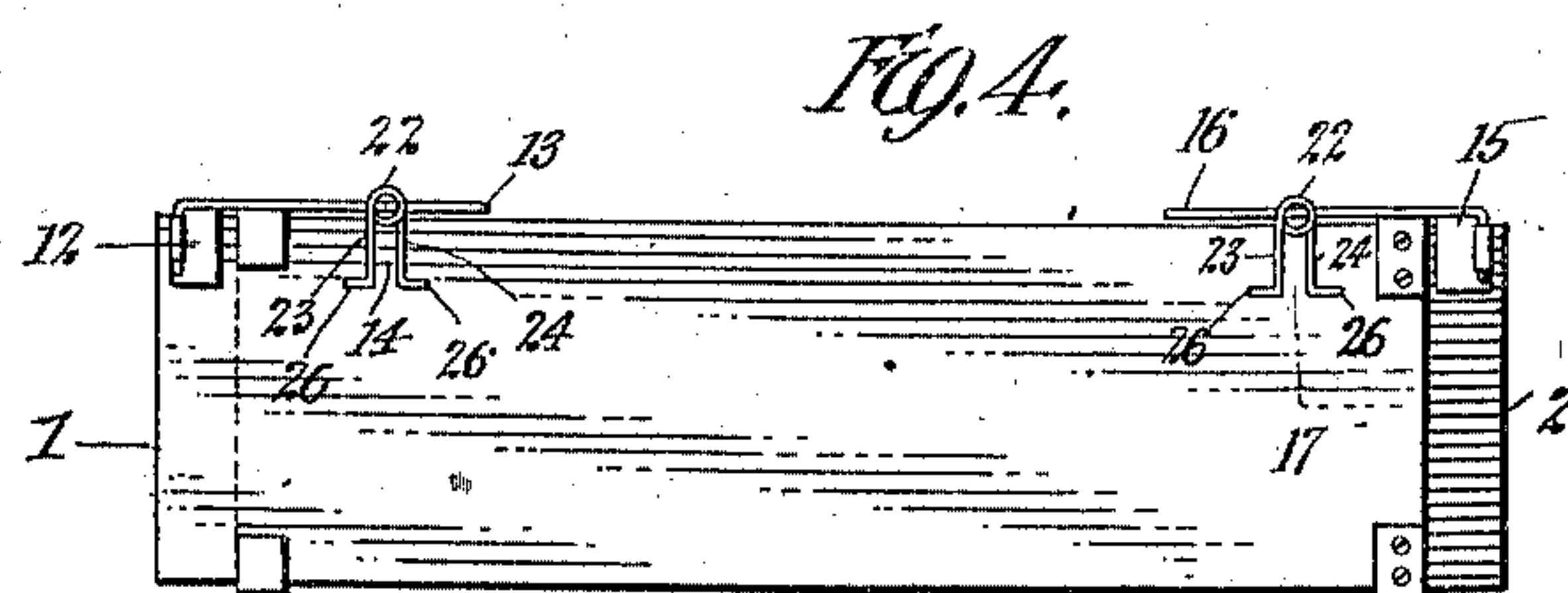
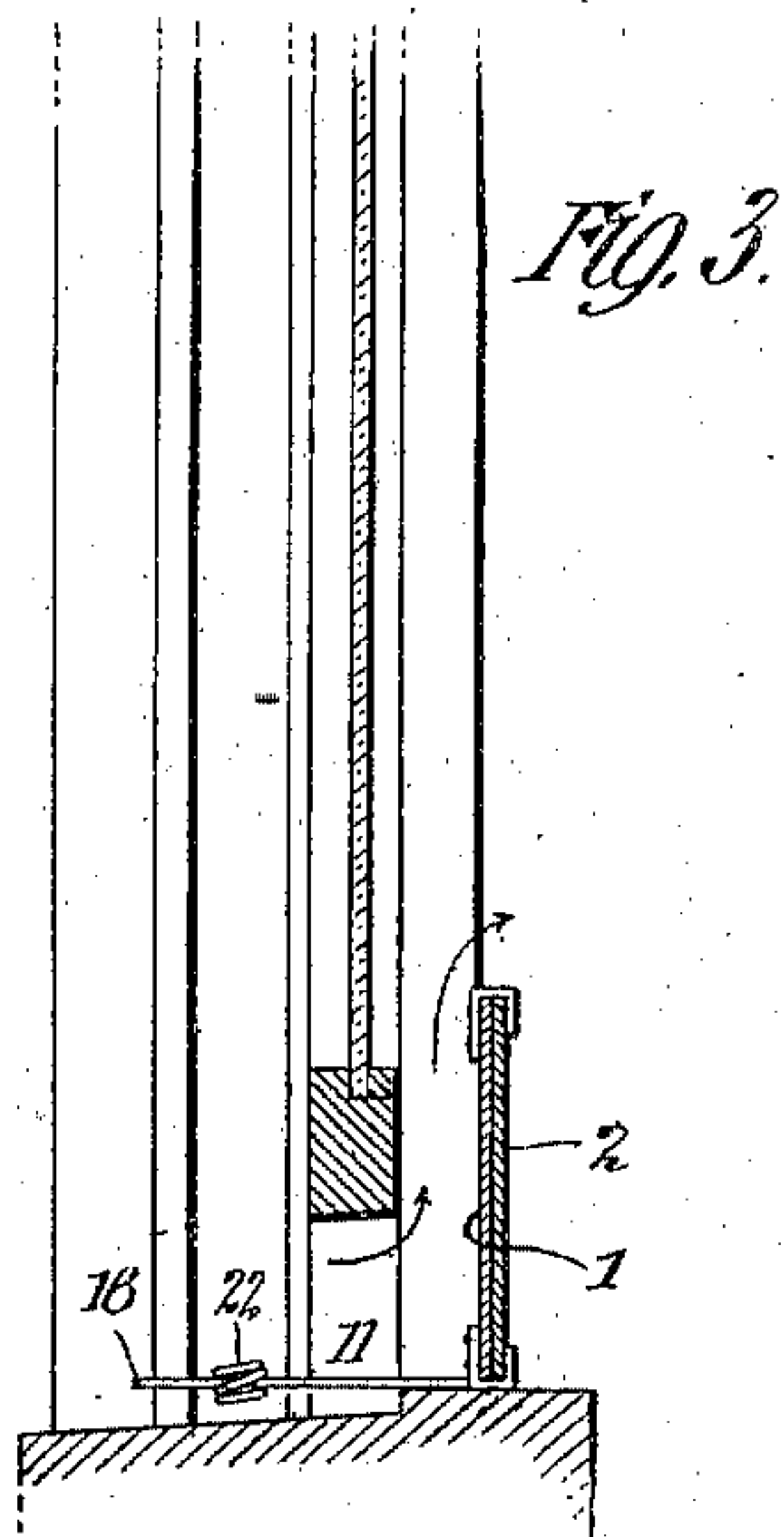
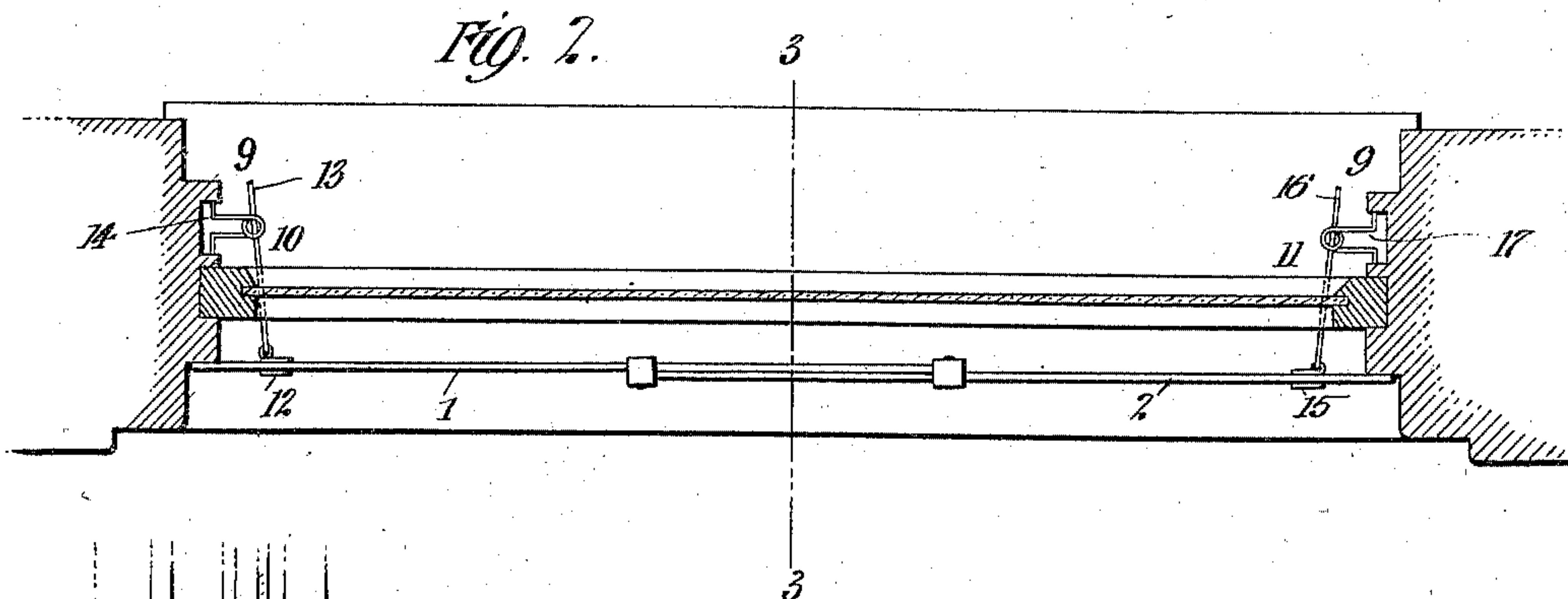
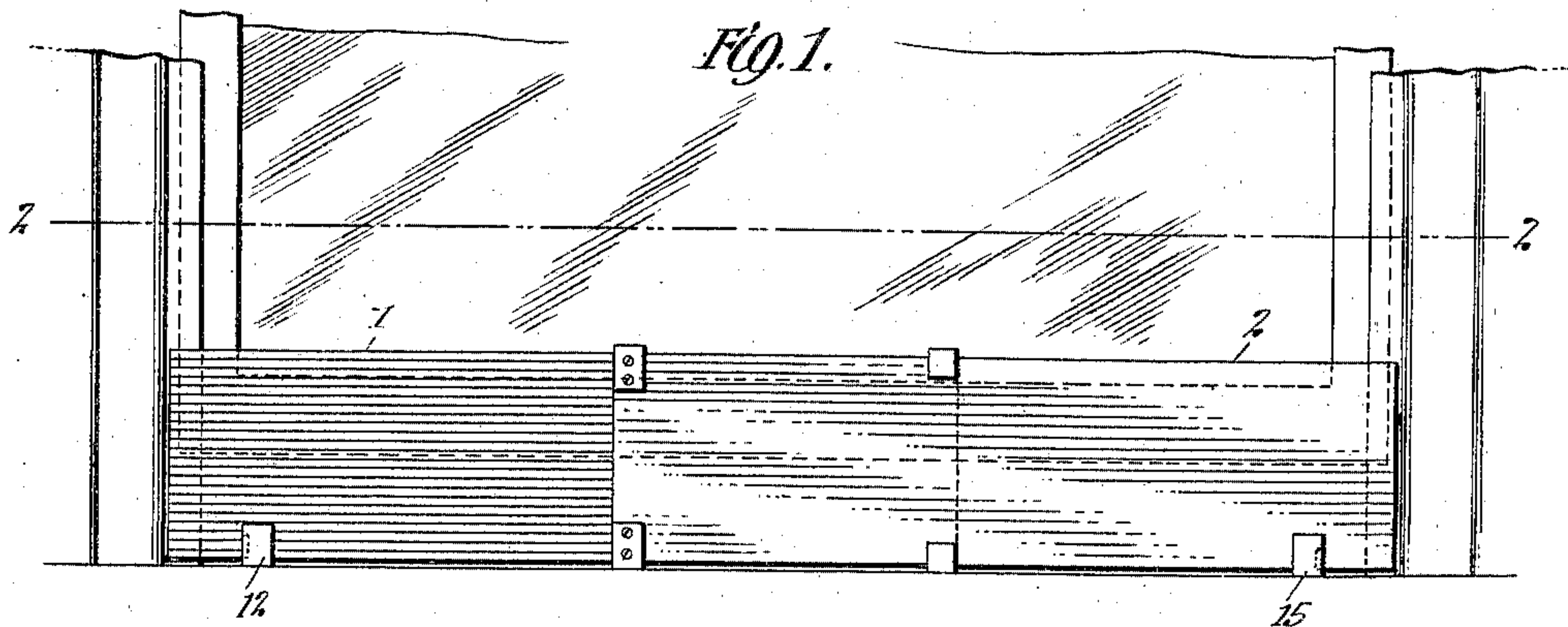


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VENTILATOR.

APPLICATION FILED NOV. 30, 1909.

967,589.

Patented Aug. 16, 1910.



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UNITED STATES PATENT OFFICE.

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VENTILATOR.

967,589.

Specification of Letters Patent.

Patented Aug. 16, 1910.

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To all whom it may concern:

Be it known that I, HAROLD P. VOSE, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Ventilators, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to window ventilators, and has reference more particularly to that type which comprises a deflector or wind-guard adapted to be set in position along the window-sill and acting in connection with the partially opened window to admit the air into the room in an indirect course.

The object of the invention is to provide a ventilator which may be quickly and easily adjusted for application to the window-frame at will, the deflector of the ventilator being for this purpose provided with means which directly engage the window-frame, preferably the jamb.

Further objects of the invention are to provide a simple, inexpensive and efficient ventilator so constructed that the parts may be collapsed or folded into compact form for packing and transportation; and may be readily adjusted for use.

With these ends in view, the invention consists of certain features of construction which will be hereinafter fully described and the novel parts set forth in the claims, reference being had to the accompanying drawings showing the form of the device which I prefer to adopt.

In the accompanying drawings: Figure 1 is a front elevation showing the ventilator in position. Fig. 2 is a horizontal section on the line 2—2 of the preceding figure. Fig. 3 is a vertical section on the line 3—3 of Fig. 2. Fig. 4 is a plan view of the ventilator showing the parts collapsed or folded. Fig. 5 is a perspective view of one of the supporting stays.

Referring to the drawings: The deflector comprises two sections 1 and 2 of corresponding dimensions, and composed preferably of light thin boards, or other suitable material, placed face to face and connected telescopically so that the deflector as a whole may be adjusted longitudinally to different widths, or may be collapsed or folded into compact form.

Means are provided at the outer ends of

the deflector sections 1 and 2, for supporting the deflector in position by engaging said means with the window-frame, as at 9. Said supporting means are preferably in the form of stays 10 and 11, which are preferably secured to that edge of the deflector which is to rest upon the window-sill, so that the lower sash may be raised or lowered to provide an air inlet opening of variable size beyond the deflector.

The stay 10 comprises a bracket or clip 12 for attachment to the deflector, a stay-member 13 connected with the bracket, and an attaching or grip-member 14 for engaging the window-frame, which grip-member is carried by the stay-member. The other stay-member 11 comprises corresponding parts 15, 16 and 17. The brackets or clips 12 and 15 are preferably formed of metal plates bent into U-form so that they may be frictionally engaged over the edges of the deflector, thereby providing for their adjustment longitudinally of the deflector, and their removal therefrom when desired. The stay-members 13 and 16 are, in the present instance, in the form of wire arms pivotally attached to the clips in such manner that they may be swung horizontally to different positions, or may be folded down on the deflector for the purposes presently to be described. The pivotal connections with the clips are conveniently effected by bending the ends of the arms at right angles and loosely engaging the bent ends in bearing sockets on the clips. The grip-members 14 and 17 are each formed, as shown more particularly in Fig. 5, of a section of spring wire bent on itself to form coils 22 and jaws 23 and 24, the ends of which latter are extended in opposite directions to form engaging fingers 26. By springing the jaws together, the engaging fingers may be passed in between the beads of the window-frame, so that when the jaws are released, they will spring outwardly and cause the fingers to engage the beads and thus effect a secure attachment to the frame. These grip-members are connected with the stay-members by passing the wire arms of the stay-members through the central coils and between the side coils, the result being that the pressure of the coils will hold the grip-members on the arms, and will at the same time permit the members to be moved to different positions longitudinally of the arm, and will also permit the grip-members to be swung

around the arm as an axis. This admits of the adjustability of the grip-members to beads and window-frames of different forms and dimensions, and also provides for the folding down of the grip-members alongside the deflector when the arms are likewise folded for packing or transportation.

In adjusting the ventilator for use, the sections 1 and 2 are slid out to the proper distance for the window-frame to which the ventilator is to be attached, and the stay-members 13 and 16 are moved outwardly to a position at substantially right angles to the sections. The grip-members 14 and 17 are now swung outwardly upon the stay-members and the ventilator secured in position in the window-frame by engaging the fingers of the jaws between the beads of the sash grooves, as shown in Fig. 2. When thus adjusted, the deflector will be securely and firmly held in upright position at the inside of the lower sash, and by raising the sash to the proper height, the air in entering the room will flow beneath the sash, then upwardly between the same and the deflector, and will then be distributed uniformly, and in this manner prevent objectionable drafts. In the removal of the device, the fingers of the grip-members are disengaged by pressing the jaws inwardly toward each other, whereupon the arms carrying the grip-members are swung inwardly toward the deflector sections. In folding the device for packing or transportation, the two sections are collapsed or slid inwardly on each other, the stay-members folded down on the sections, and the grip-members likewise folded down. In this form, the device occupies little space and may be conveniently and economically handled in packing and shipment.

While in the accompanying drawings I have shown my invention in the form which I prefer to adopt, it is manifest that the invention is not limited in its specific details, except in so far as such limitations are specified in the claims.

Having thus described my invention, what I claim is:—

1. In a ventilator, the combination with a deflector of stiff material adapted to extend from side to side of a window frame with its lower edge resting on the sill thereof, of a pivoted support for said deflector adjustable longitudinally along the latter, and adapted to be swung into engaging relation with said window frame at will.

2. In a ventilator, the combination with a deflector consisting of two adjustably connected sections of stiff material, the whole adapted to extend from side to side of a window frame with its lower edge resting on the sill thereof, of a pivoted support for each of said sections adjustable longitudinally thereof and adapted to be swung into

engaging relation with said window frame at will.

3. In a ventilator, the combination with a deflector of stiff material, of pivoted supporting means adjustably secured to both ends of said deflector and adapted to be folded against the body of said deflector.

4. In a ventilator, the combination with a deflector adapted to extend from side to side of a window frame, of a laterally projecting stay member connected to said deflector, and a window frame gripping members projecting laterally from said stay member.

5. In a ventilator, the combination with a deflector adapted to extend from side to side of a window frame, of a stay member thereon, and a grip member adjustably mounted on said stay member.

6. In a ventilator, the combination with a deflector, of a stay-member thereon, and an adjustable member on the stay-member provided with a pair of gripping jaws to engage with the window-frame.

7. In a ventilator, the combination with a deflector, of a pivoted stay member adapted to be folded against the deflector, and a grip member adjustable angularly on said stay member.

8. In a ventilator, the combination with a deflector adapted to extend from side to side of a window frame and rest upon the sill thereof, of a stay member adapted to swing outwardly from said deflector, and a grip member adjustable on said stay member and adapted to engage the side of the window frame.

9. In a ventilator, the combination with a deflector, adapted to extend from side to side of a window frame and rest on the sill thereof, of a pair of movable grip members attached to the deflector and adapted to be moved into engagement with the sides of the frame to sustain the deflector in position.

10. In a ventilator, the combination with a deflector adapted to extend from side to side of a window frame, of a pair of grip members located one at each side of said deflector, and means for foldingly supporting said grip members on the deflector.

11. In a ventilator, having a deflector adapted to extend from side to side of a window frame, of a stay therefor comprising a stay member pivoted to said deflector, and a member provided with a pair of gripping jaws adjustable on said member.

12. In a ventilator, the combination of a deflector, an outwardly projecting stay member attached thereto, and a gripping member frictionally mounted on said stay member and adjustable longitudinally thereon.

13. In a ventilator, the combination of a deflector, a stay member projecting outwardly therefrom and adapted to be folded against said deflector, and a gripping mem-

ber frictionally mounted on said stay member and adjustable longitudinally and angularly thereon.

14. In a ventilator, the combination of a
5 deflector adapted to extend from side to side
of a window frame, a pair of stays secured
one to each end of said deflector and adapted
to be folded against the body of the same,
and gripping members slidably mounted on
10 said stays and adjustable angularly thereon.

15. In a ventilator, for windows, the combination of a deflector located at one side of
a sash, a gripping member located at the
other side of the sash, and a stay member
15 extending beneath the sash and connecting said
deflector with said gripping member.

16. In a ventilator for windows, the combination of a deflector adapted to rest on the
window sill to one side of the path of travel
of the window sash, a gripping member 20
adapted to engage the window frame at the
opposite side of said path, and a stay member
extending beneath the sash and connecting
the lower edge of said deflector with said
gripping member. 25

In testimony whereof I affix my signature
in presence of two witnesses.

HAROLD P. VOSE.

Witnesses:

W. R. KENNEDY,
ERNEST D. CONDIT.