

No. 864,792.

PATENTED SEPT. 3, 1907.

A. S. MEEK.
WINDOW VENTILATOR.
APPLICATION FILED APR. 27, 1907.

Fig. 1.

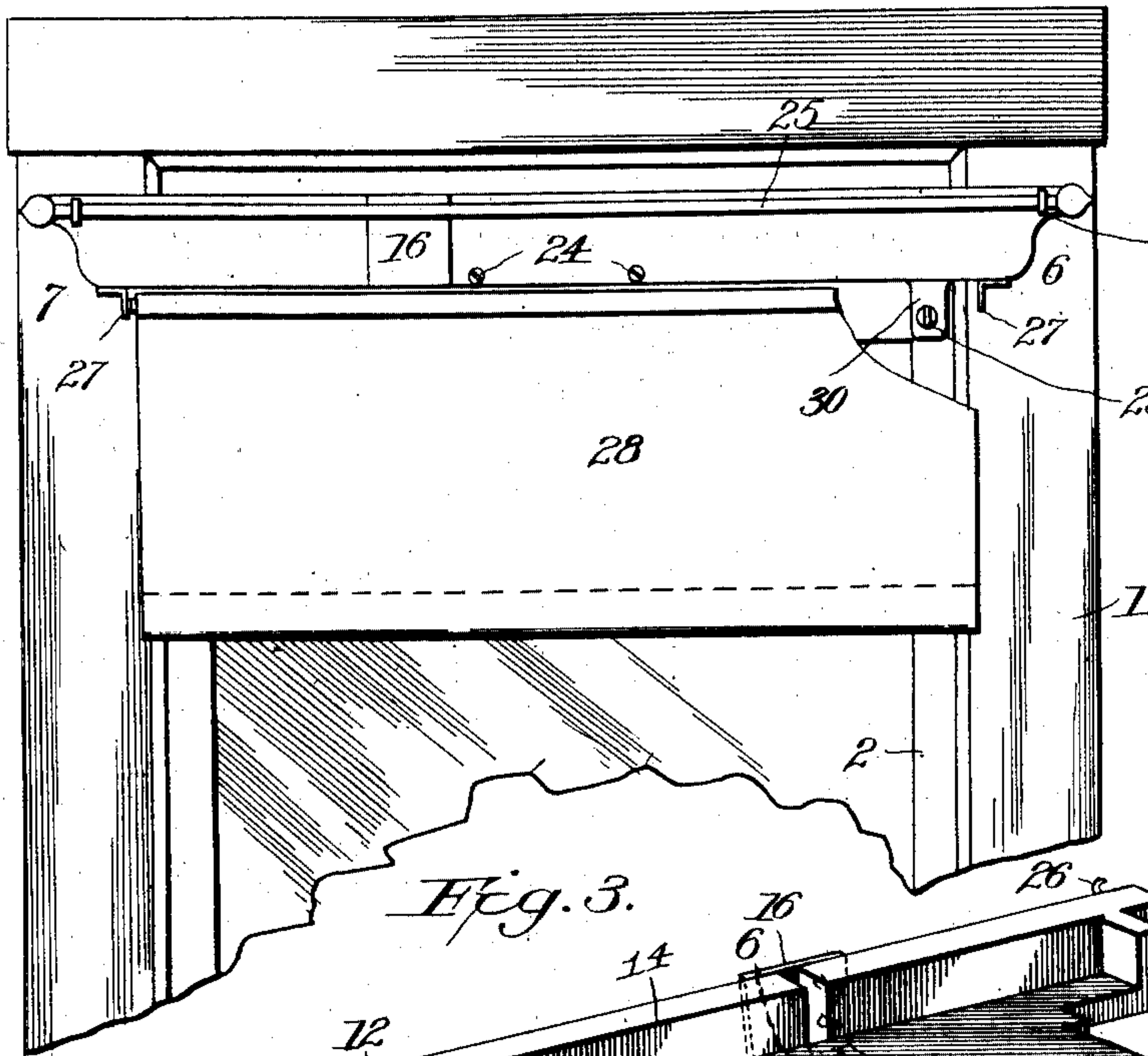


Fig. 2.

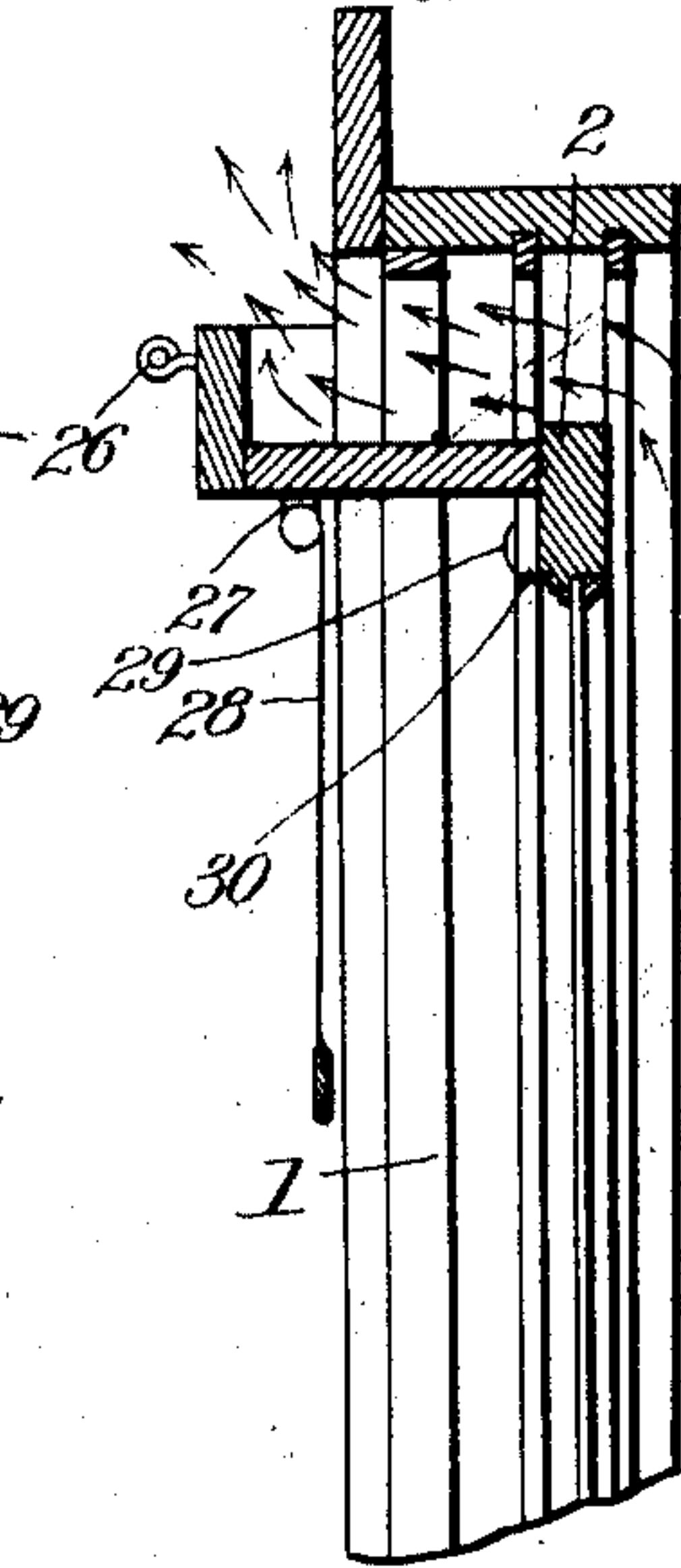


Fig. 3.

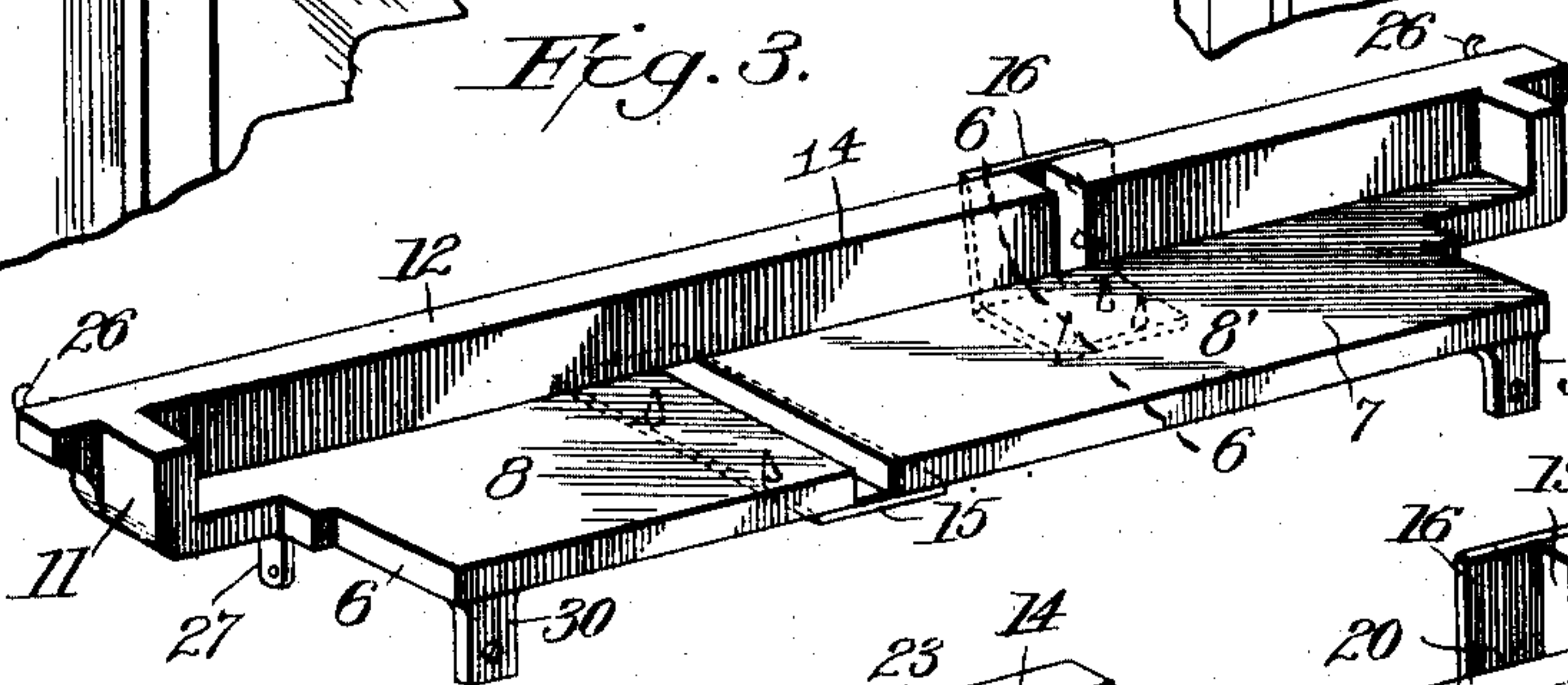


Fig. 5.

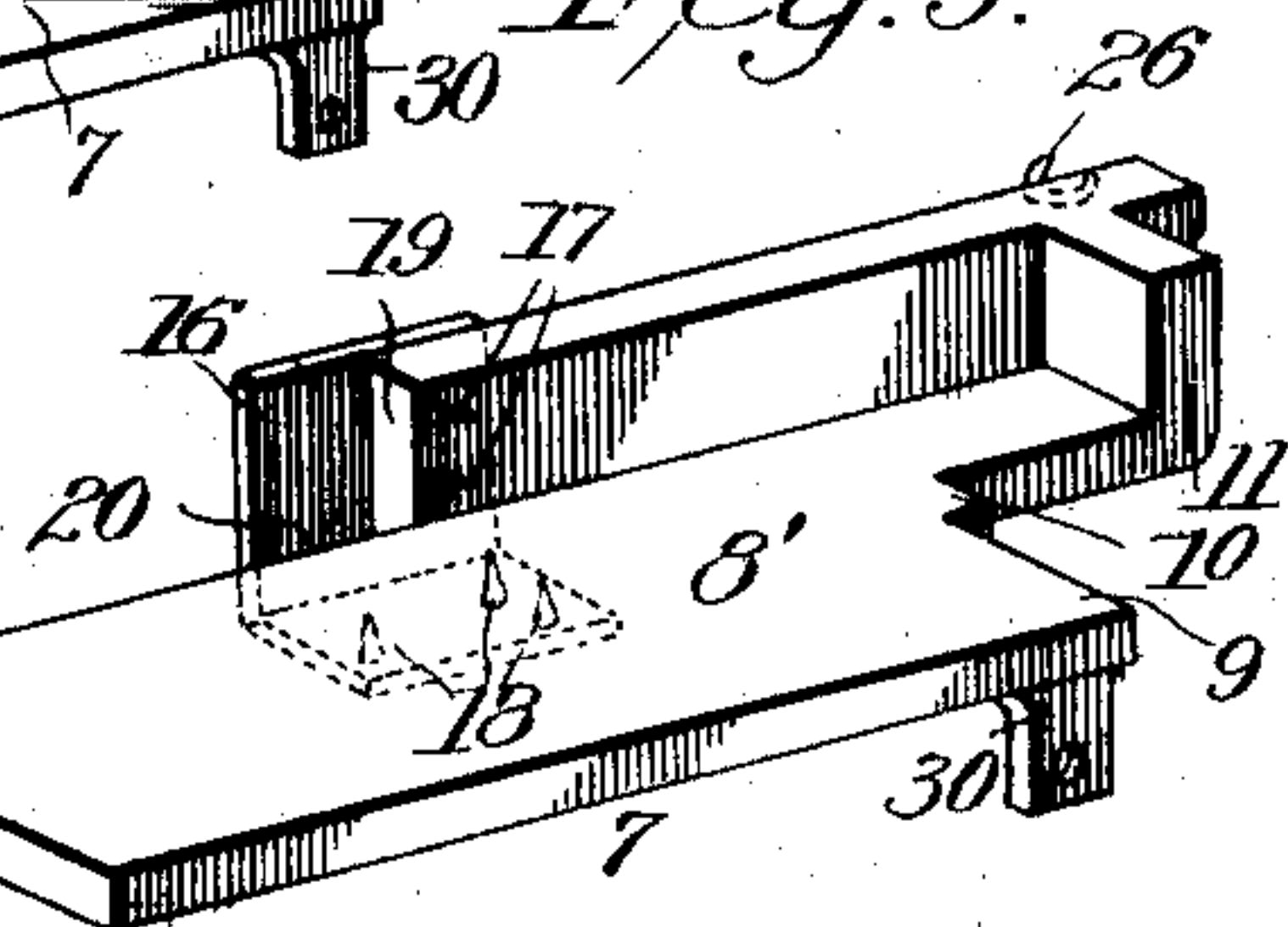


Fig. 4.

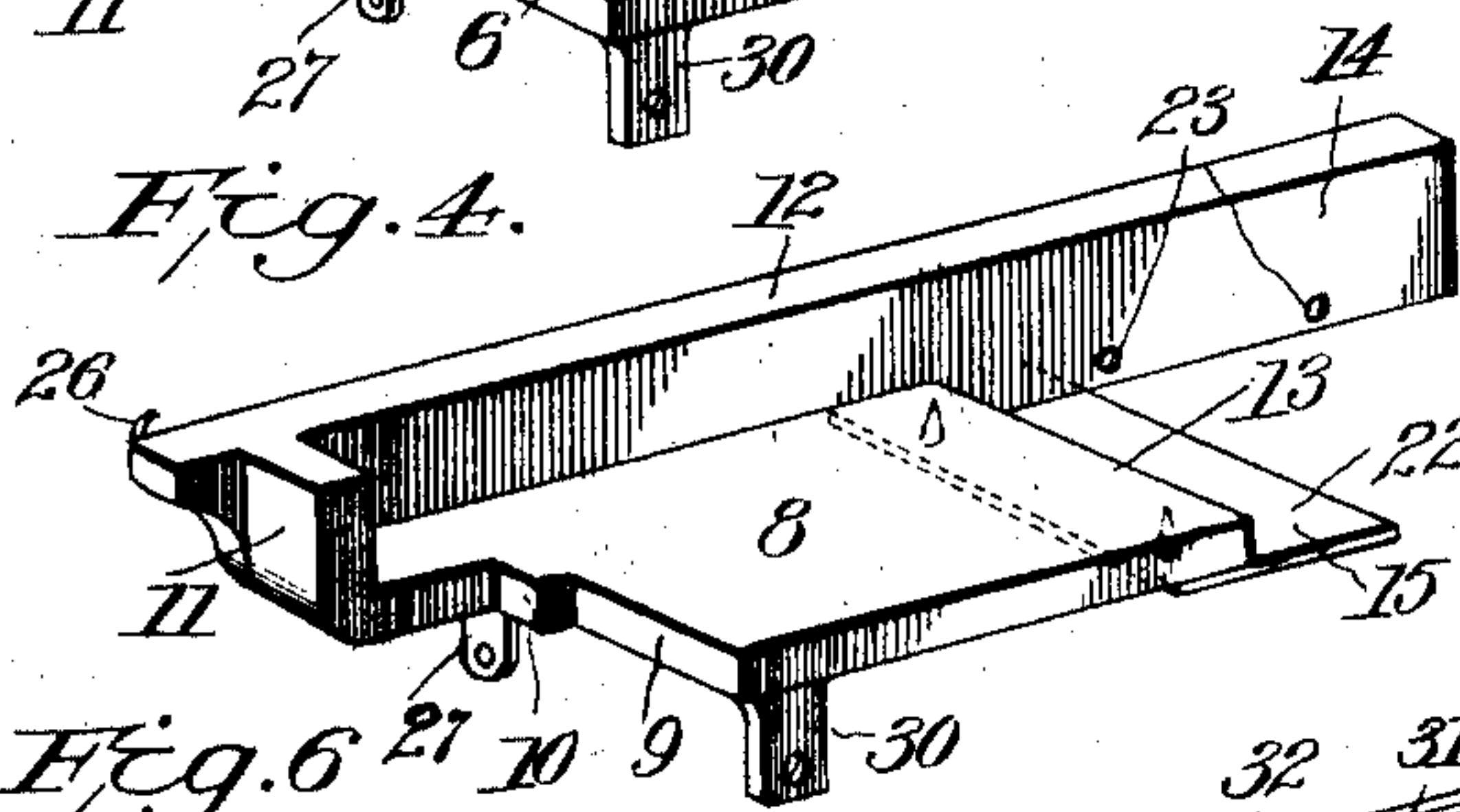
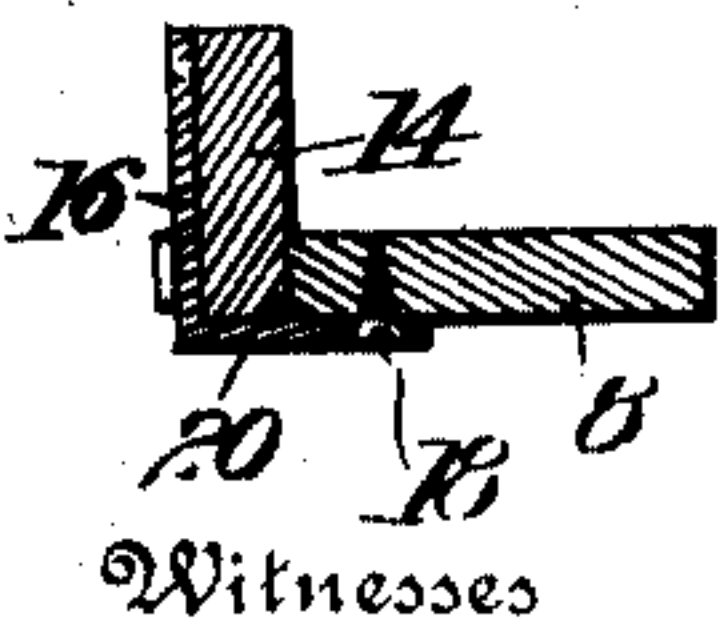
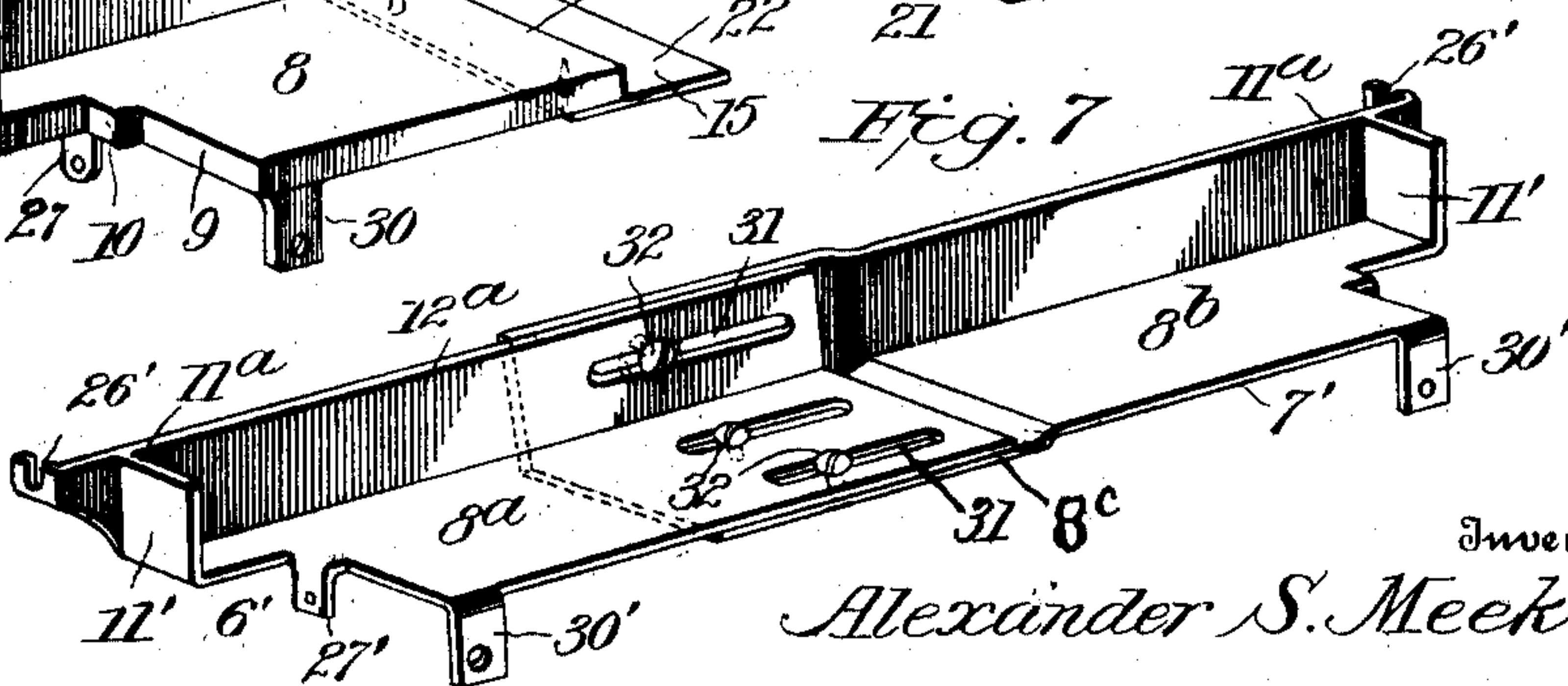


Fig. 7.



Witnesses

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UNITED STATES PATENT OFFICE.

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WINDOW-VENTILATOR.

No. 864,792.

Specification of Letters Patent.

Patented Sept. 3, 1907.

Application filed April 27, 1907. Serial No. 370,721.

To all whom it may concern:

Be it known that I, ALEXANDER S. MEEK, a citizen of the United States, residing at Washington, in the county of Washington and State of Iowa, have invented certain new and useful Improvements in Window-Ventilators, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to an improvement in window ventilators, and has for its object the improvement of the construction of a ventilating device, which is supported entirely by, preferably, the upper sash of a window.

Another object of the invention is the construction of a window ventilator, which comprises a minimum number of parts, is durable, and comparatively inexpensive to construct.

With these and other objects in view, the invention consists of certain novel constructions, combinations, and arrangements of parts, as will be hereinafter fully described and claimed.

In the drawings: Figure 1 is a front view of a device constructed in accordance with the present invention, showing the same supported upon a window-sash. Fig. 2 is a transverse, vertical sectional view of the structure depicted in Fig. 1. Fig. 3 is a perspective view of a ventilator constructed in accordance with the present invention. Fig. 4 is a perspective view of one of the sections of the ventilator, while Fig. 5 is a perspective view of the other section of the ventilator. Fig. 6 is a transverse, sectional view taken on lines 6, 6, Fig. 3. Fig. 7 is a perspective view of another embodiment of the present invention.

Referring to the drawings, 1 designates the window-frame, within which is slidably mounted the upper sash 2.

My improved ventilator is provided for preventing down-draft, when the upper sash is in an opened position, leaving a space between its upper, horizontal edge and the top of the window-casing.

My ventilator is constructed in sections, so that the same may be adjusted across the sash and window-frame to accommodate window sashes and frames of different width. Therefore, my ventilator comprises, preferably, a pair of sections 6 and 7, which I will hereinafter designate, for convenience, primary and auxiliary sections, respectively. It will be obvious from the description hereinafter given that my ventilator comprises an adjustable, sectional structure.

The primary section 6 comprises a horizontal board or base 8, the end of which is provided with notches 9 and 10 and with a vertical extension 11. The vertical extension 11 closes the outer end of this section when the ventilator is secured to a window-sash, because the notched portions 9 and 10 of the edge bear against the vertical, inner face of the frame 1. Secured to the front edge of base 8 and the end-portion 11, is a vertical

front-board or member 12, which member 12 is of greater length than base 8 and extends beyond the inner end 13 of base 8, as at 14. A metallic, horizontal plate 15 is secured to the bottom of base 8, and to the lower edge of the front-board 12. This plate 15 also has a portion extending beyond the inner edge 13 of base 8. The horizontal plate 15 and the extended end 14 of front-board 12, constitute overlapping extensions, for the purpose hereinafter specified.

The auxiliary section is also provided with a horizontal base or board 8', which is of greater length than the front-board or member 12'. The base 8' is provided with notches 9 and 10, the same as base 8. A vertical end-portion 11 is formed upon base 8'. An angle-plate 16 is secured upon the auxiliary section 7. The vertical portion of the angle-plate is held against the outer face of the front-board 12' by any suitable fastening means, as for instance, screws 17, and the horizontal portion of said angle-plate is held against the under face of the base 8', by any suitable fastening means, as for instance, screws 18. A portion of the angle-plate 16 extends beyond the inner end 19 of the front-board 12', and by reason of this overlapping of end 19 by plate 16, a socket 20 is formed, within which the extended end 14 of the primary section is adapted to be positioned when the sections are assembled, as in Figs. 1 and 3. When said sections 6 and 7 are assembled, the inner end 21 of base 8' will engage and overlap the outer edge 22 of the horizontal plate 15. The plate 15 and angle-plate 16 can be made of any desired dimension, and by reason of the peculiar structure of each section, a considerable adjustment can be obtained without permitting the passage of any air between the engaging portions of the sections, thereby directing all of the air, passing into the room, upward towards the ceiling, as indicated by the arrows in Fig. 2. To secure the sections together, I, preferably, provide horizontal apertures 23 in the extended portion 14 of the primary section, and after the sections have been adjusted to suit a particular sash, suitable fastening means, as for instance, screws 24, are inserted into these apertures 23 and screwed into the outer edge of the base 8', see Fig. 1. It will be obvious that the screws 24 will secure the sections together, although, they will permit quick disassembling of the sections for shipment or for adjustment to accommodate another size sash and frame. The sections are, therefore, provided with overlapping portions permitting a sliding adjustment of one upon the other. Furthermore, it is to be noted that I have provided means for retaining the adjustable sections in an adjusted position.

A curtain pole 25 is, preferably, supported upon the front of the ventilator by any suitable means, as for instance, hooks or brackets 26. Suitable depending brackets 27 are secured to the horizontal bottom of the ventilator and are provided for supporting a shade 28

the horizontal bottom constituted by the bases of the sections.

It is to be noted that, by reason of the peculiar structure of my ventilator, the curtain pole 25, normally adapted to support a lace-curtain, is so positioned that the entrance of air into the room, when the sash is lowered, will not blow or disturb either the lace curtain or the shade 28.

The ventilator is secured to the upper, horizontal portion of the upper sash by any suitable fastening means, as for instance, screws 29, passed through brackets 30 and extending into the sash. The brackets 30 are, preferably, secured to the bottom of the base portions 8 and 8'.

In Fig. 7, I have preferably shown a ventilator formed from sheet-metal, and said ventilator comprises a primary section 6' and an auxiliary section 7'. Each section is provided with an integral curtain pole supporting-bracket 26' and with an integral shade supporting-bracket 27'. Each section is also provided with an integral bracket 30', which bracket 30' is employed for securing the ventilator to the window-sash. It is to be noted that each section, including its brackets, is formed from the same piece of material. The vertical end portion 11' of each section is bent-up and is, preferably, soldered, at 11^a, to the front piece 12^a. The primary section 6' is provided with elongated slots 31 in the front portion 12^a and in the base 8^a, in which slots are positioned transverse fastening means 32. These fastening means 32 are, preferably, screws, which are threaded at one end into apertures formed in the base portion 8^b and the front portion 12^a of the auxiliary section 7'. By loosening these screws 32, the sections can be adjusted to the desired length, and, subsequently, said screws can be tightened for retaining the sections in the adjusted position.

In both of the embodiments, the overlapping portions of the sections permit the adjustment of the ventilator to accommodate different size windows, and after the desired adjustment has been obtained, screws 24 or 32 can be tightened to retain the adjustable section in a fixed position with respect to each other.

It is to be noted that the horizontal plate 15 constitutes a depending portion of the base 8, which plate 15 overlaps the horizontal base 8'; furthermore, the horizontal, depending portion 8^c overlaps a portion of base 8^a.

It will be apparent that in the embodiments depicted in Figs. 3 and 7, there is shown two portions of the horizontal bases overlapping each other. The horizontal bases are important, because they suitably space, as well as support the shade and curtain-supporting brack-

ets. By reason of this structure, the shade may be placed a sufficient distance from the window-frame, as well as away from and not in contact with the curtain supported by brackets or hooks 26.

What I claim is:

1. An adjustable window ventilator, comprising adjustable sections, means securing said sections together, said sections provided with overlapping horizontal bases, a vertical end portion secured to each base at one of its ends and a front portion secured to the front longitudinal edge of each base. 60
2. An adjustable window ventilator, comprising a pair of adjustable sections, each section provided with a horizontal base, and one base provided with depending means overlapping the lower face of the other section, forming a closure between the contiguous ends of the bases. 65
3. An adjustable window ventilator, comprising adjustable sections provided with horizontal bases, the bases having their inner ends positioned in the same horizontal plane, and means extending from one of the bases and overlapping and positioned under the other base for closing the opening between the inner ends of said bases. 70
4. An adjustable window ventilator, comprising adjustable sections, each section provided with a horizontal base, and a plate secured to one of said bases and positioned under and overlapping the other base, forming a closure between the inner, contiguous ends of the bases. 75
5. An adjustable window ventilator, comprising detachable primary and auxiliary sections, the primary section provided with a base and a front portion, the inner end of the front portion extending beyond the inner end of the base, said auxiliary section provided with a base and a front portion, the inner end of the base of the auxiliary section extending beyond the inner end of the front portion of said section, and means engaging the bottom of said bases and the front portions for spanning the distance between the meeting edges of said bases and front portions. 80
6. An adjustable window ventilator, comprising a pair of adjustable sections, each section provided with a base portion and a front portion, one section provided with the front portion overlapping the base portion of the other section, and plates secured to the outer faces of said sections and spanning the distance between the meeting edges of the base portions and the front portions. 85
7. An adjustable window ventilator, comprising adjustable sections, a flat plate secured to the bottom of one section and overlapping a portion of the other section, and an angle-plate secured to one section and overlapping the front portion of the other section. 90
8. An adjustable window ventilator, comprising detachable sections, each section comprising a base portion and a front portion, a horizontal plate secured to one of said base portions and overlapping the other base portion, and an angle-plate secured to the front and base portions of one section and overlapping only the front portion of the other section. 105

In testimony whereof I hereunto affix my signature in presence of two witnesses. 110

ALEXANDER S. MEEK.

Witnesses:

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