

F. H. FLOWERS & F. R. LEET.

VENTILATOR.

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915,838.

Patented Mar. 23, 1909.

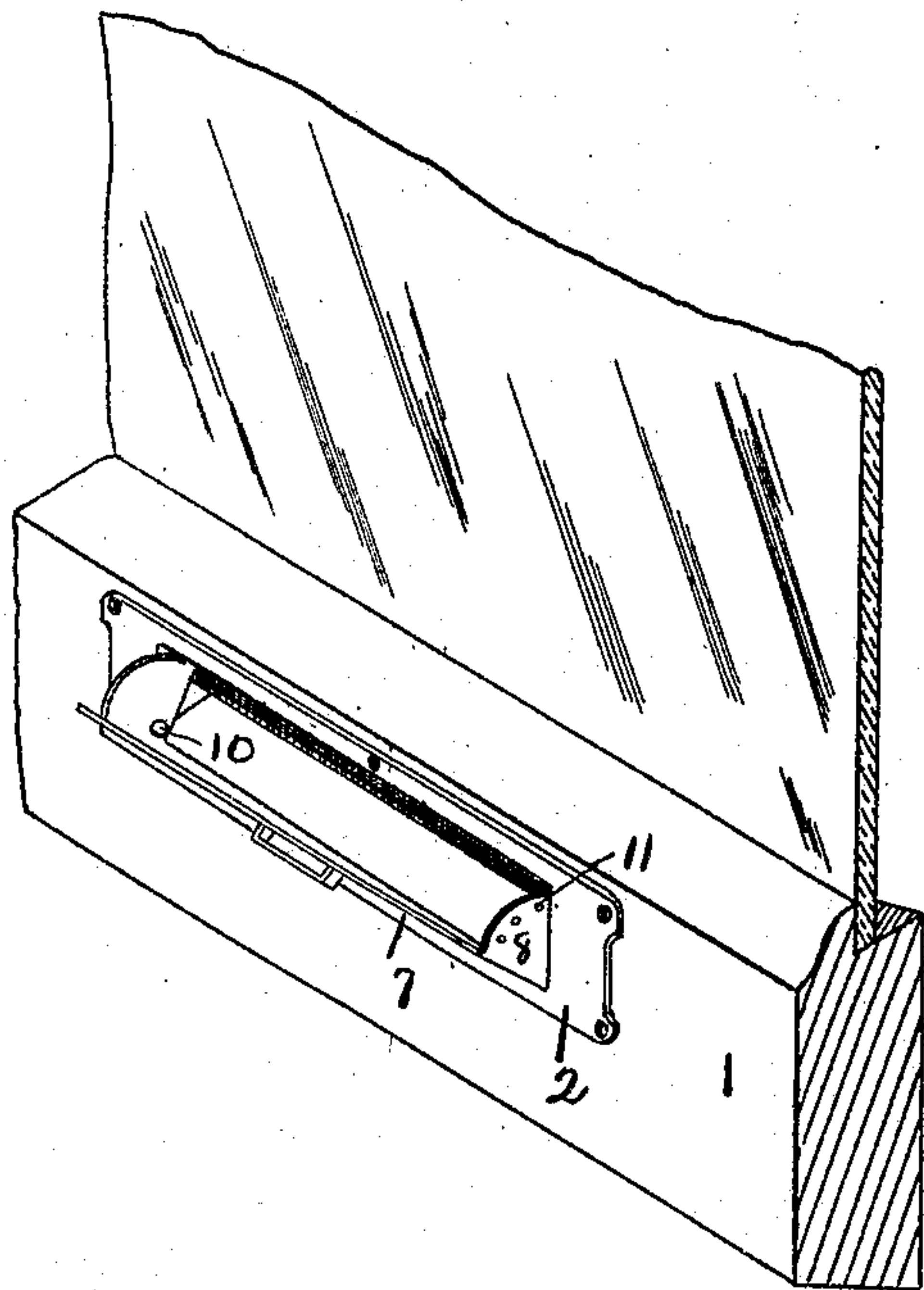


Fig. 1.

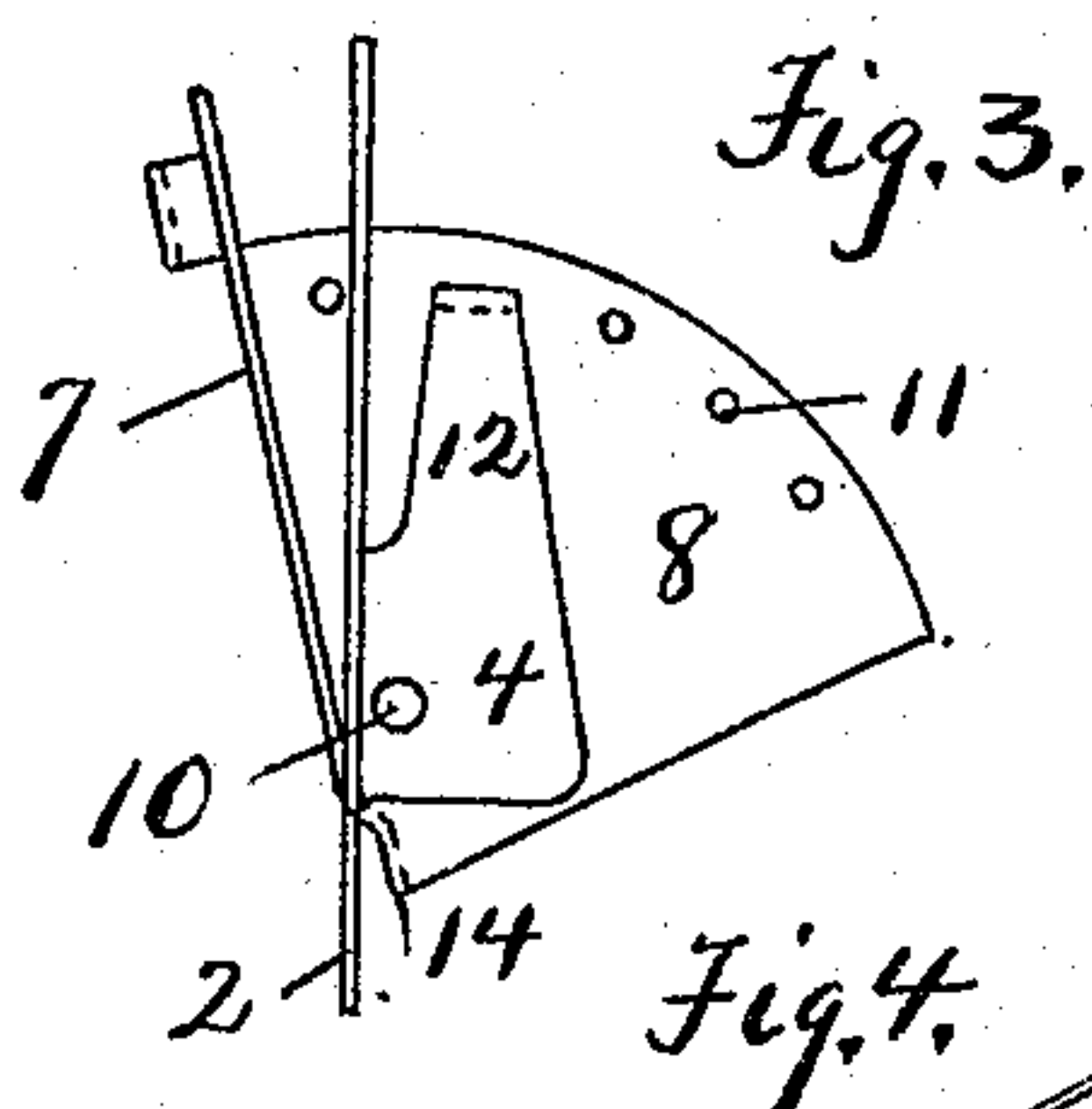


Fig. 3.

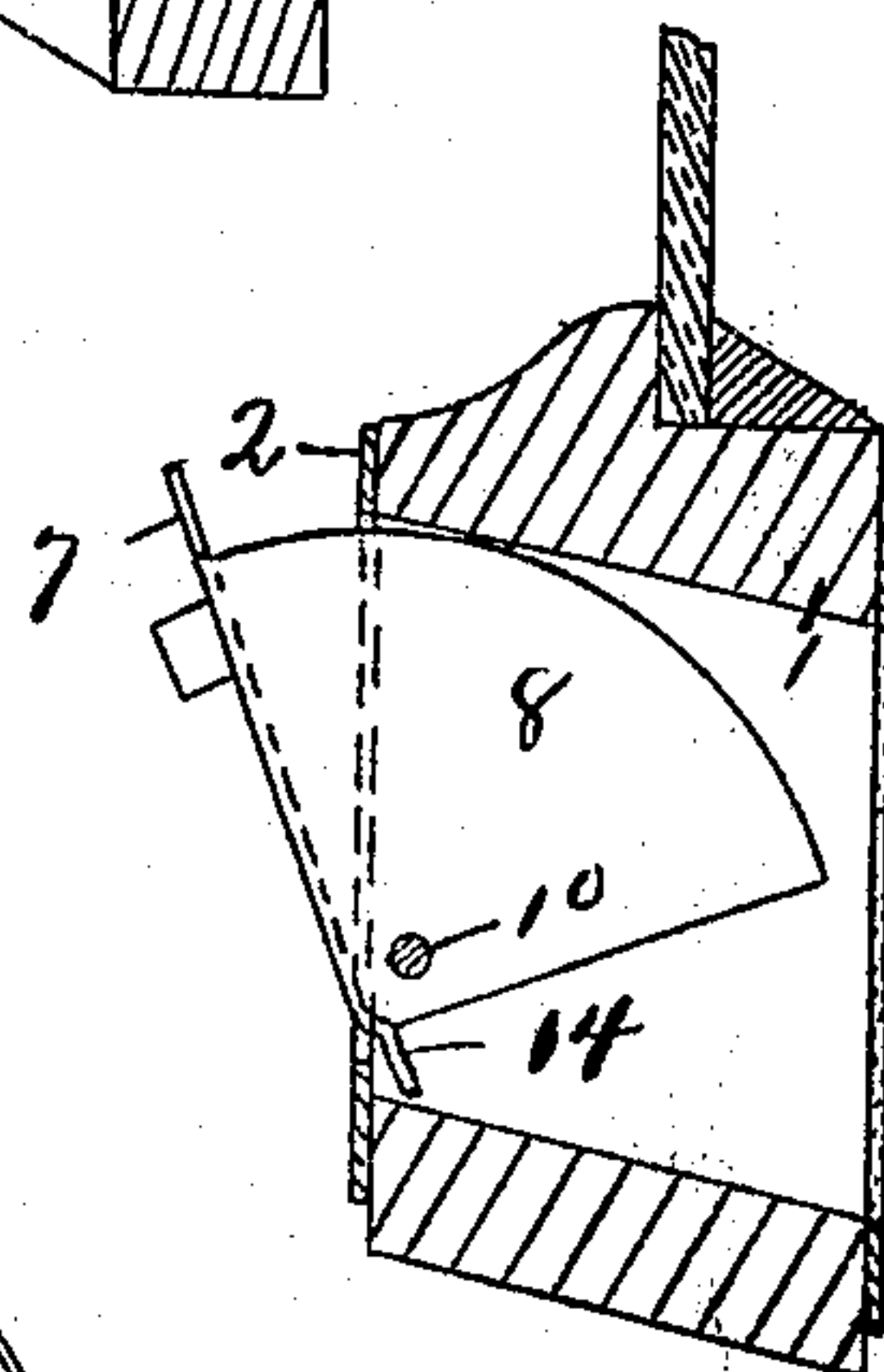


Fig. 2.

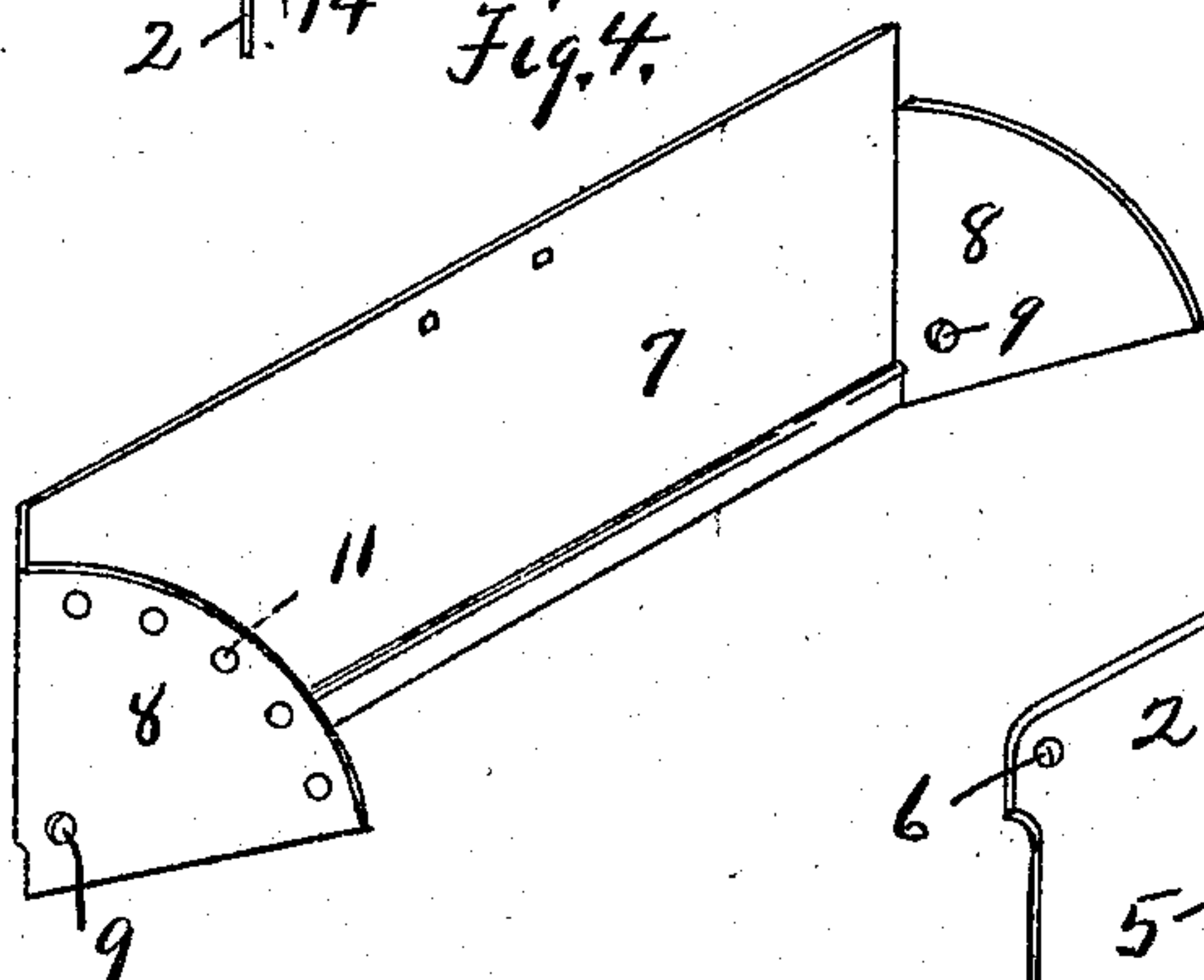


Fig. 4.

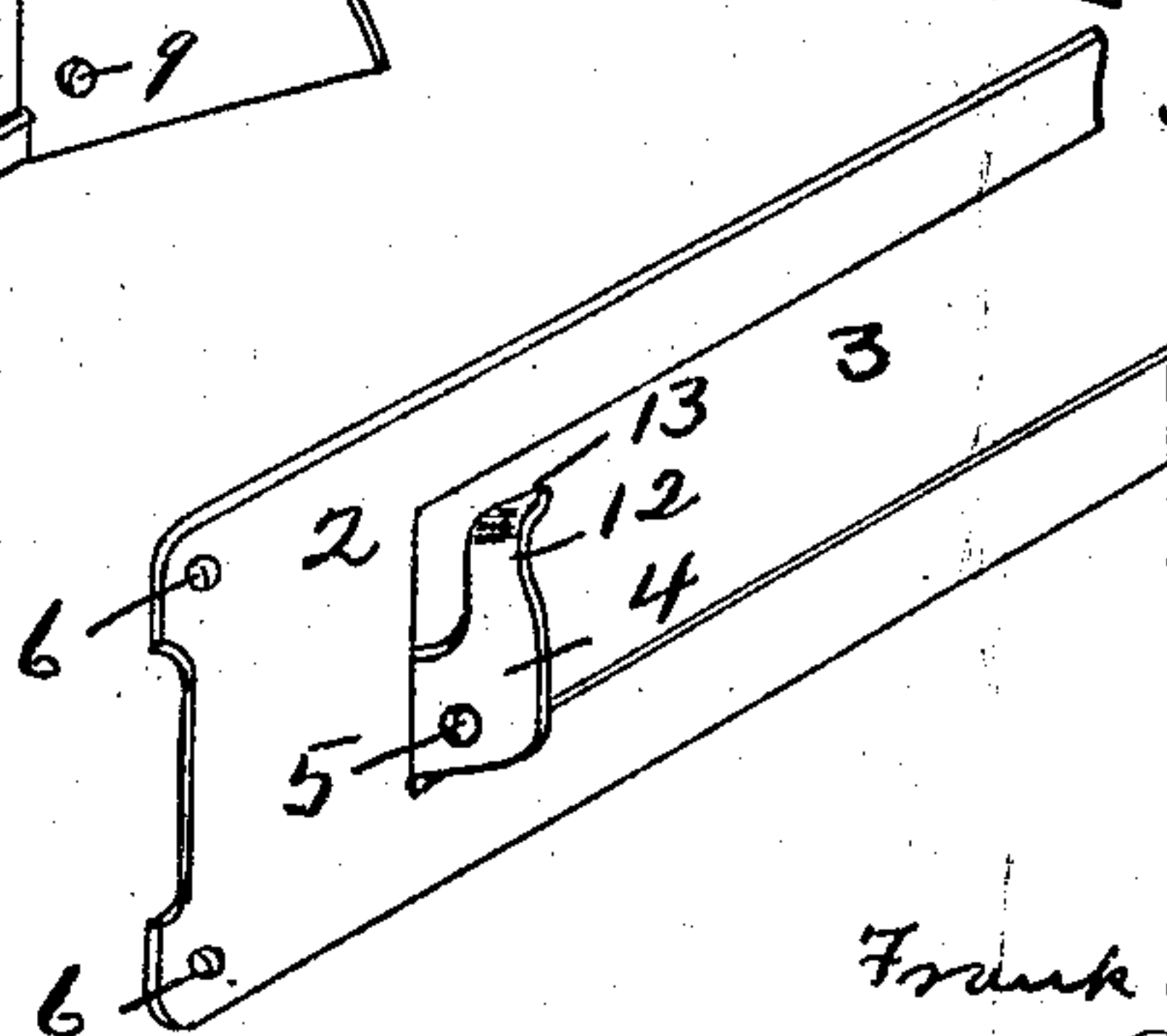


Fig. 5.

Witnesses
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UNITED STATES PATENT OFFICE.

FRANK H. FLOWERS AND FRANK R. LEET, OF ERIE, PENNSYLVANIA; SAID FLOWERS
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VENTILATOR.

No. 915,838.

Specification of Letters Patent.

Patented March 23, 1909.

Application filed March 16, 1908. Serial No. 421,475.

To all whom it may concern:

Be it known that we, FRANK H. FLOWERS and FRANK R. LEET, citizens of the United States, residing at Erie, in the county of Erie and State of Pennsylvania, have invented new and useful Improvements in Ventilators, of which the following is a specification.

This invention relates to ventilators, and consists in certain improvements in the construction thereof as will be hereinafter fully described and pointed out in the claims.

The object of the invention is to provide a ventilator suitable for use with window frames, inserted rails, or in fact any closure in which it is desirable to have a ventilator opening.

The invention is illustrated in the accompanying drawings as follows:

Figure 1 shows a perspective view of a fragment of a window with the ventilator in place therein. Fig. 2 a central vertical section of the ventilator and window frame. Fig. 3 an end view of the ventilator. Fig. 4 a perspective view of the closure plate of the ventilator. Fig. 5 a perspective view of a fragment of the base plate of the ventilator.

1 marks the rail or frame of the window. As shown this is part of the window, but it will be understood that this may be any part of the building through which the ventilator opening may be arranged.

The base plate 2 of the ventilator has the aperture 3 which limits the size of the ventilator opening. At each end of the aperture 3 the plate 2 has a lug 4 formed in it, and this lug or ear is bent to right angles to the plate 2 forming a lug or ear at each end of the aperture 3. The perforations 5 are arranged in the lug, and receive the hinge pin or rivet for the closure plate 7. The base plate is also provided with the perforations 6 by means of which it may be secured to the rail or other structure.

The closure plate 7 has the end plates 8. These are bent at right angles to the plate 7 and extend through the aperture 3 forming closures at the ends. They are provided with the perforations 9 which come into register with the perforations 5 on the ears 4, and the hinge pins 10 extend through the perforations 5 and 9 forming hinge pins for the closure plates 7.

The ends 8 have the indentures 11 arranged in an arc with the perforation 9 as a center. The ears 4 have the upper extensions 12, and the pawl 13 which are adapted to operate in the detents 11 on the ends 8. The pawl 13 is spring actuated by reason of the extensions 12, and is so shaped as to yieldingly enter the detents 11 to lock the closure plate in any adjustment desired. The engagement of the pawls, however, is not sufficient to prevent a ready movement of the closure if it is desired to close or open it. This engagement is, however, sufficient to prevent any rattling of the ventilator which is quite objectionable with some constructions.

It is desirable to have an overlapping closure when the plate is in a closed position. In order to accomplish this, we have the lip 14 extending along the bottom of the closure plate 7. It projects inwardly enough to engage the inner side of the base plate 2 with the plate 7 flush with the outer face of the plate 2.

What we claim as new is:

1. In a ventilator, the combination of an apertured base plate; a swinging closure plate hinged on the base plate, and having the closure ends thereon extending through the aperture; and locking means comprising detents on said ends, and spring actuated pawl yieldingly engaging said ends for yieldingly locking the same at various positions.

2. In a ventilator, the combination of a base plate having an aperture therein; a closure plate hinged on the base plate, said closure plate having its body flush with the surface of the base plate when closed; and having a lip 14 projecting out of the plane of the closure plate for engaging the opposite surface of the base plate when the closure plate is closed, said lip extending the entire length of the aperture to form a closure therewith.

In testimony whereof we have hereunto set our hands in the presence of two subscribing witnesses.

FRANK H. FLOWERS.
FRANK R. LEET.

Witnesses:

H. L. LORD,
K. R. KANE.