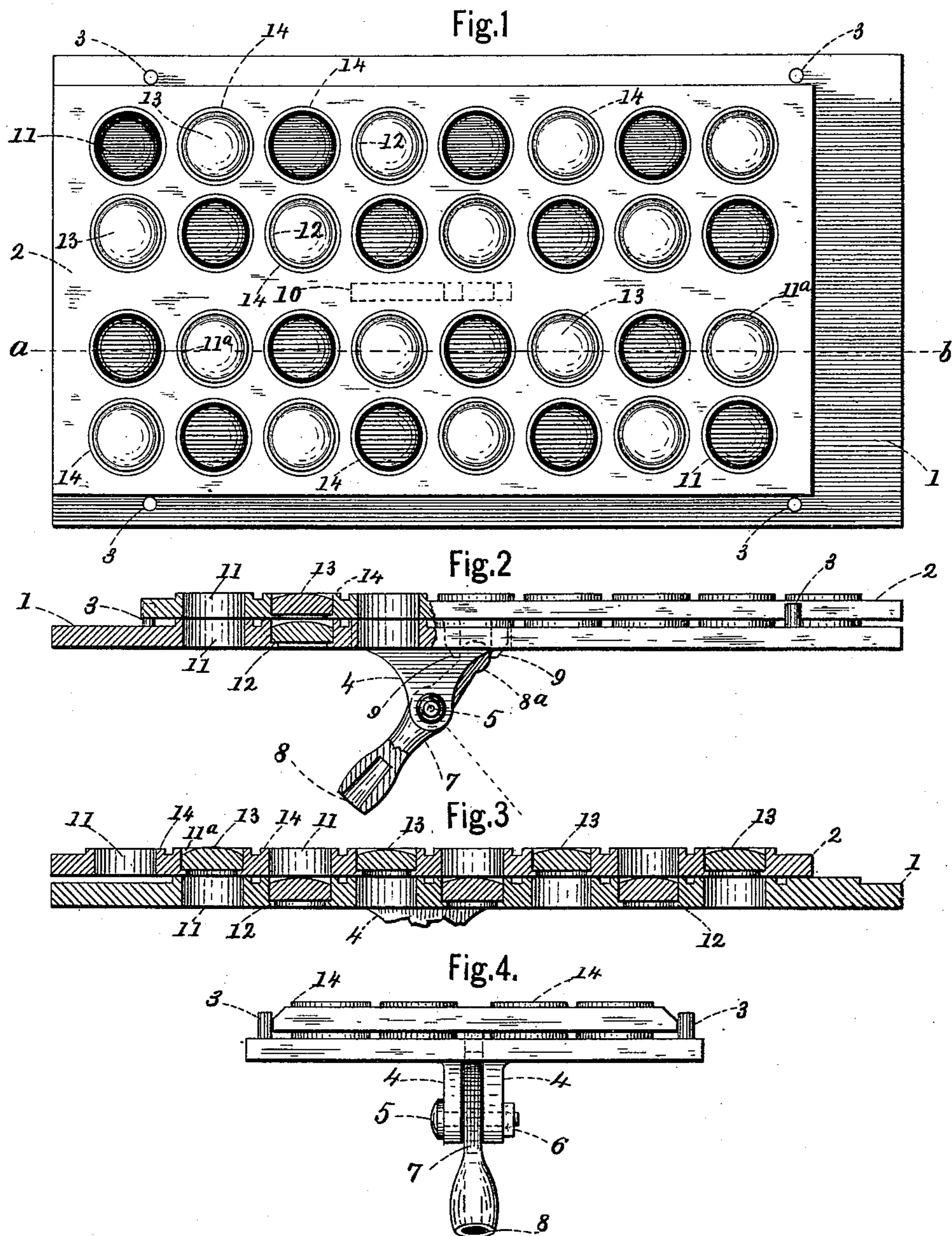


(No Model.)

E. M. RIESTER.
COMBINED SKYLIGHT AND VENTILATOR.

No. 465,889.

Patented Dec. 29, 1891.



Witnesses.

Henry Ashbery
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UNITED STATES PATENT OFFICE.

EMILY M. RIESTER, OF BUFFALO, NEW YORK.

COMBINED SKYLIGHT AND VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 465,889, dated December 29, 1891.

Application filed August 24, 1891. Serial No. 403,542. (No model.)

To all whom it may concern:

Be it known that I, EMILY M. RIESTER, a citizen of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Combined Skylights and Ventilators, of which the following is a specification.

My invention relates to certain improvements in a combined skylight and ventilator, and it will be fully and clearly hereinafter described and claimed, reference being had to the accompanying drawings, in which—

Figure 1 is a plan view of the device. Fig. 2 is a side sectional elevation. Fig. 3 is a vertical longitudinal section in or about line *a b*, Fig. 1. Fig. 4 is an end view.

The object of my invention is to provide a convenient skylight that can be used as a ventilator when required; and it consists of a stationary or base frame 1 and an upper or movable frame 2, adapted to slide on the base frame 1. It is kept in its proper position or in line by means of the pins 3, between which it slides back and forth. The lower or base frame is provided with two downwardly-projecting portions 4, between which is pivoted by a pin or bolt 5, secured in place by a nut 6, an arm 7, provided with a socketed portion 8 and having its upper end 8^a project in between two downwardly-projecting lugs 9. These lugs 9 project down from the upper plate or frame 2 and pass down into and through a slot 10 in the lower plate 1. (Shown by the dotted lines 10 in Fig. 1.) From this construction it may be seen that the upper frame or plate may be moved back and forth by turning the socketed arm 7 either way on its pin or bolt 5, and if the device is at the roof or top of a cellar high enough to be out of reach of the hands it may be operated by means of a pole by putting one end into a socket 8 and then moving it in either direction, as may be desired.

The object of the above construction is to provide the means for opening or closing the ventilator, as will more clearly hereinafter appear.

Both the stationary (glass-holding) frame 1 and the upper or movable (glass-holding) frame 2 are provided with a double series of per-

forations 11 and 11^a, every alternate one of which is provided with an inwardly-projecting flange 12. Into the openings 11^a is fitted a glass disk 13, which rests on the top of the flange 12. The top of each of the glass or transparent disks 13 is preferably made convex, as shown, and to protect their upper surfaces each opening 11^a is provided with an upwardly-projecting ring 14, which is made to project up either even with or above the top of the glass. These disks are secured in place in any well-known way. The openings 11 are unobstructed openings through each frame or plates 1 and 2, and are placed alternately, as shown in Fig. 1, so that when opened to allow ventilation the glass portion 13 of the two frames will be directly over each other, substantially as shown in Fig. 2.

When the device is closed so as to be used as a skylight, only a portion of the glass disks 13 will be directly above the openings 11 in the lower frame, and the other portion will be directly under the lower frame, substantially as shown in Fig. 3, so that each alternate glass is above and below the openings, the whole presenting a closed water-tight surface when shut.

I claim as my invention—

1. In a combined skylight and ventilator, a stationary frame or base plate having a series of openings alternately glass-covered and uncovered, lugs projecting down from each side of an opening through said plate, and a socketed handle mounted on a pin on said lugs, in combination with a similar but movable frame or plate adapted to slide between guideways on the base-plate and having a corresponding series of openings alternately glass-covered and uncovered, and lugs projecting down through the opening in the base-plate to engage with the upper end of the socketed handle, so that it can be moved back and forth to uncover or cover the openings, substantially as described.

2. In a combined skylight and ventilator, two frames or plates, one mounted so as to move on the other and each provided with a corresponding series of alternate glass-covered and uncovered openings, in combination with a socketed handle pivoted by a pin to lugs on one plate and having its upper end

pass through an opening therein and then up between lugs on the other plate or frame, whereby the device can be operated from a distance, substantially as described.

5 3. A combination skylight and ventilator consisting of a stationary base plate or frame provided with a series of openings, each alternate opening having a transparent-glass
10 surrounding the glass for protecting it, a slot or opening through the plate, and lugs projecting downward from the slot, carrying a pivoted socketed arm, in combination with
15 an upper movable plate adapted to slide between guide-pieces back and forth over the

base-plate and provided with a series of openings, each alternate opening being provided with glass surrounded by a protecting-ring, the whole corresponding with the glass-covered and free openings in the lower plate, and 20 lugs projecting down from the upper plate through the opening in the lower plate, between which the upper end of the socketed arm operates when moving the plate back and forth to cover or uncover the openings, substantially as described. 25

EMILY M. RIESTER.

Witnesses:

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