

H. SHLAMOWITZ.

VENTILATOR.

APPLICATION FILED SEPT. 9, 1908.

905,008.

Patented Nov. 24, 1908.

2 SHEETS—SHEET 1.

Fig. 1,

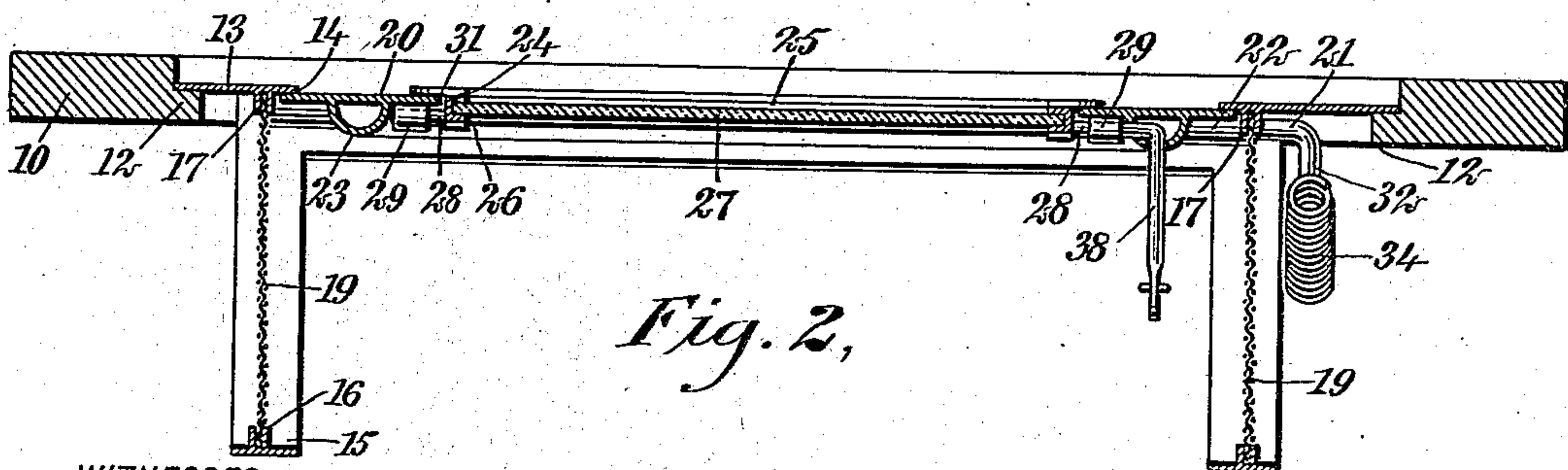
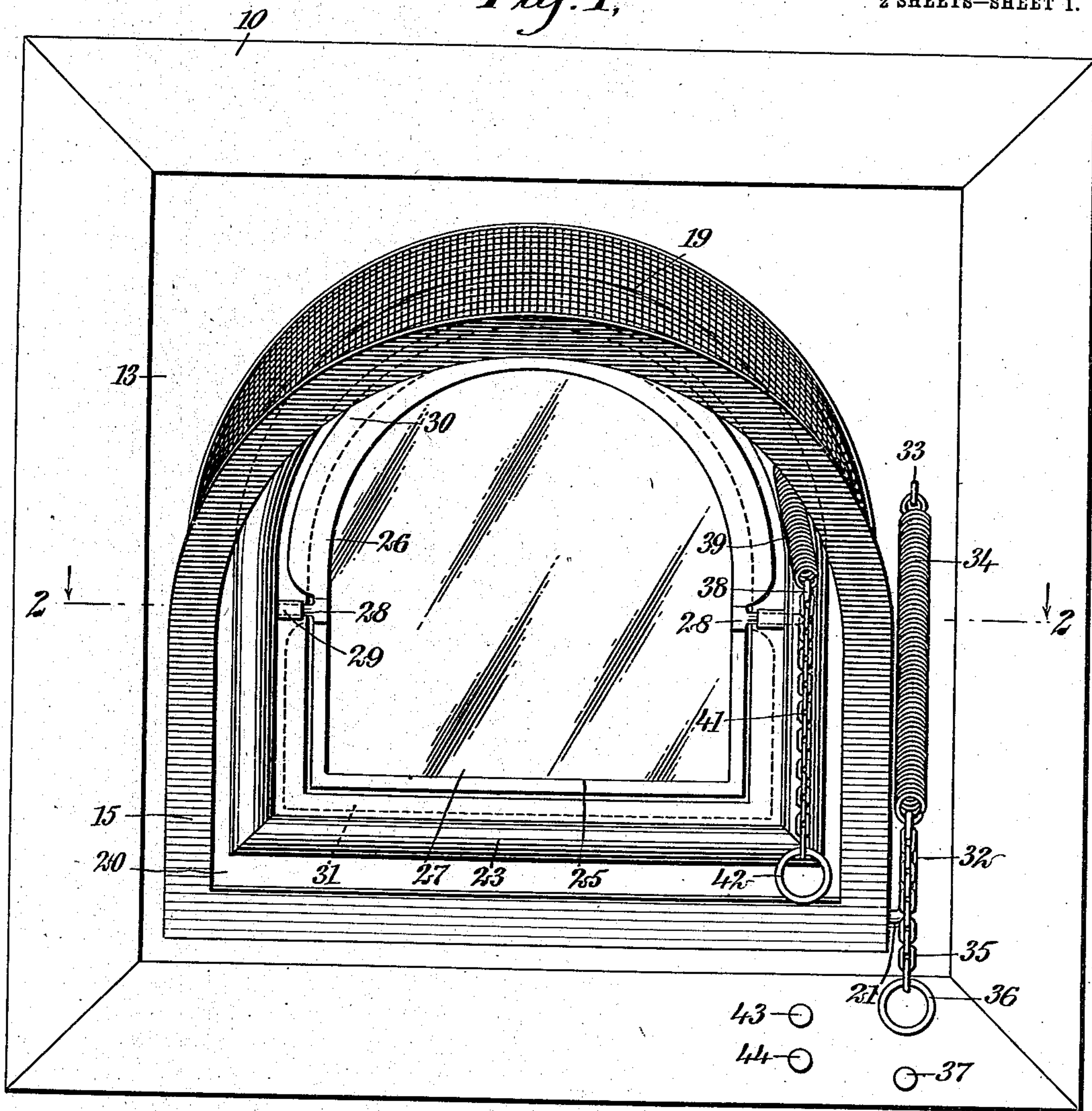


Fig. 2,

WITNESSES

Edward Thorpe,
John K. Brachvogel

INVENTOR

Hymen Shlamowitz

BY

Mum Co.

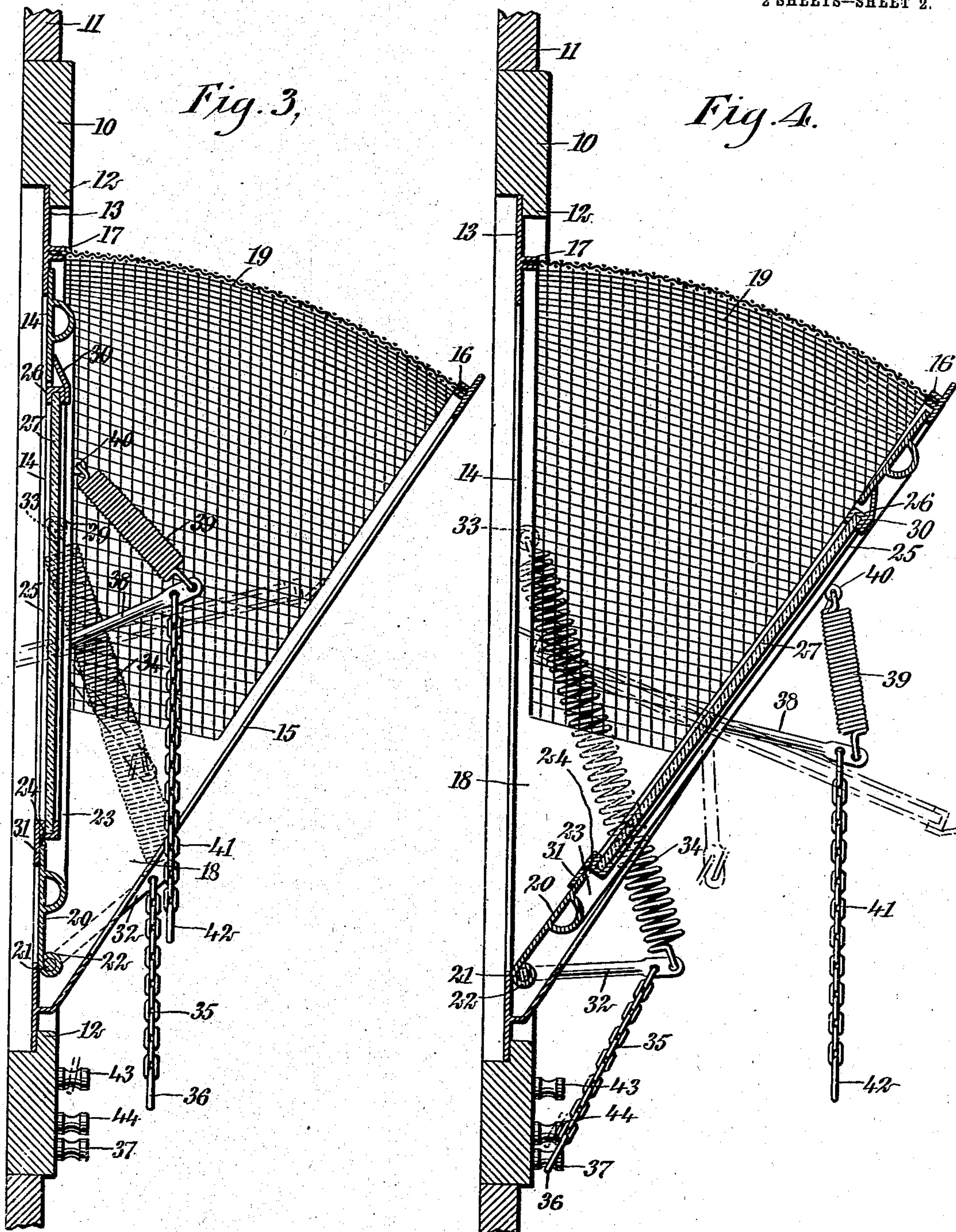
ATTORNEYS

H. SHLAMOWITZ.
VENTILATOR.
APPLICATION FILED SEPT. 9, 1908.

905,008.

Patented Nov. 24, 1908.

2 SHEETS—SHEET 2.



WITNESSES

Edward Thorpe.
John K. Brachvogel

INVENTOR

Hymen Shlamowitz
BY *Munn & Co.*
ATTORNEYS

UNITED STATES PATENT OFFICE.

HYMEN SHLAMOWITZ, OF NEW YORK, N. Y.

VENTILATOR.

No. 905,008.

Specification of Letters Patent.

Patented Nov. 24, 1908.

Application filed September 9, 1908. Serial No. 452,206.

To all whom it may concern:

Be it known that I, HYMEN SHLAMOWITZ, a subject of the Czar of Russia, and a resident of the city of New York, borough of Manhattan, county and State of New York, have invented a new and Improved Ventilator, of which the following is a full, clear, and exact description.

This invention relates to ventilators, and more particularly to devices of this class adapted to be placed in windows, or the like, to permit the entrance of pure air into rooms without creating drafts.

Specifically, the invention relates to a ventilator having a sash adapted to be arranged in a window or other opening, and itself presenting an opening, a hood arranged at said opening of said sash and having a hood frame at an angle with the sash, and a pivoted closure arranged to be positioned at said opening or against said hood frame, said closure itself having a pivoted, transparent window, which can be opened in either position of the closure, the hood having a perforated part, which permits the entrance of air into a room, but prevents the same from carrying with it dust or the like.

An object of the invention is to provide a simple, inexpensive and durable ventilator for use in connection with windows or other openings in buildings or like structures, which is so constructed that in a certain arrangement of the parts, air can enter the room freely, but in an upward direction, that is, in a direction towards the ceiling, the air at the same time being screened to prevent the entrance of dust, dirt, or the like.

A further object of the invention is to provide a device of the class described, which has a closure adapted to be arranged in a plurality of positions and itself having a transparent window adapted to be arranged in a plurality of positions, so that the amount of opening presented by the ventilator can be varied.

The invention consists in the construction and combination of parts to be more fully described hereinafter, and particularly set forth in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views, in which

Figure 1 is a front elevation of an embodiment of my invention, showing the venti-

lator closed; Fig. 2 is a transverse section on the line 2—2 of Fig. 1; Fig. 3 is a longitudinal section of the device; and Fig. 4 is a similar view showing certain of the parts in different positions.

Before proceeding to a more detailed explanation of my invention, it should be clearly understood that while the same is particularly useful for ventilating rooms and the like, it can also be advantageously employed for other purposes, for example, for ventilating ships' cabins or railroad or street cars. I have shown, for example, in the accompanying drawings, a form of the ventilator which includes a sash adapted to be removably mounted in a window or other opening, and encompassing a plate or member which presents the main opening proper of the ventilator. This sash is, of course, *per se* not an essential element of my invention, but can be dispensed with, the plate itself being then mounted, in any suitable manner, directly in the window or other opening.

Any suitable material can be employed in the manufacture of my invention, and I prefer to make use, for this purpose, of sheet metal or the like. I wish to emphasize that the invention does not reside in the details of construction shown for example herewith, but that these details can be varied in accordance with individual preference or special conditions.

The invention consists broadly in the provision of a frame adapted to be mounted at an opening, a hood frame at an angle with the first frame and connected with the same by means of a screen, or other perforated cover, the hood frame and the cover constituting the ventilating hood, and a closure movably arranged upon the frame and adapted to be positioned against the same or against the hood frame, and itself including a pivoted, preferably transparent, window.

Referring more particularly to the drawings, I provide a sash 10 adapted to be mounted within a window frame 11, or in any suitable ventilating opening. The sash 10 is preferably rectangular in form and has a rim 12 on the inner edge, against which is positioned a plate 13 having an opening 14 therethrough. The opening 14 has preferably a straight, transverse lower edge, and a substantially semi-circular upper edge, as is shown most clearly in Fig. 1. A hood frame 15, similar in form to the form of the opening 14, is arranged at the front of the

plate at an angle therewith, having the lower edge rigidly secured to the plate adjacent to the lower edge of the opening 14. The hood frame may be soldered, or otherwise mounted upon the frame.

The hood frame, at the inner side, has a laterally extending double flange 16 extending around three sides thereof, and terminating at the edge adjacent to the plate. The latter, around the corresponding edges of the opening 14, has a similar double flange 17. Triangular sides 18 are arranged in the double flanges 16 and 17 adjacent to the lower edges of the plate and the hood frame. A screen 19, fashioned from a wire mesh or any other suitable material, is positioned between the plate and the hood frame and constitutes the hood proper. The screen terminates adjacent to the sides 18.

A closure comprising a frame 20, is pivoted upon the plate 13 by means of a transverse pivot rod 21 arranged between the sides 18 at the lower edge of the opening 14, the frame 20 having a sleeve 22, formed to receive the pivot rod 21. The frame has a preferably semi-circular strengthening rib 23 extending around the same, and has an opening 24, in which is arranged a window 25. The latter has a U-shaped rim 26 and a body 27 held between the sides of the rim, and consisting of a sheet of glass or the like. At opposite sides, the window has laterally extending trunnions 28 movably arranged in sockets 29 carried at suitable points of the frame 20.

The rim 26 has projecting flanges 30 and 31 at opposite sides respectively of the trunnions 28, and adapted to engage at opposite sides of the frame 20.

The pivot rod 21 at one end extends through the corresponding side 18, and is laterally disposed to form an arm 32. The plate 13 has a rigidly mounted eye 33, to which is secured one end of a helical spring 34. The opposite end of the helical spring is fastened to the extremity of the arm 32, and thus serves to hold the frame 20 in a normal position against the plate 13. The arm 32 has depending therefrom a flexible member 35, consisting of chain or the like, and having at the end a ring 36 adapted to engage a stud 37 mounted preferably upon the sash 10. By pulling downwardly upon the arm 32 until the ring 36 is in position upon the stud 37, the frame 20 can be swung outward against the hood frame, thus leaving the ventilating opening unobstructed so that air may enter the same and pass through the meshes of the screen into the room.

One of the trunnions 28 is extended and laterally disposed to form an arm 38, to which is secured one end of a helical spring 39. The other end of the spring 39 is fastened to an eye 40 rigidly mounted upon the frame 20. At the end of the arm depends

a flexible member 41, consisting of a chain or the like, and having at the inner end a ring 42 adapted to engage studs 43 or 44 to hold the window open against the tension of the spring 39.

When the frame 20 is in position against the plate 13, thus closing the opening 14, the window can be held open by causing the ring 42 to engage the stud 43. This permits a smaller ventilating opening to be unobstructed.

When the frame 20 is in position against the hood frame, the window can be held open by engaging the ring 42 with the stud 44. In this way, the largest ventilating opening is provided. It will be seen that three adjustments are possible.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:—

1. A ventilator having an opening, a closure movably mounted at said opening, and having an opening therethrough, and a further closure movably mounted at said opening of said first closure.

2. A ventilator having an opening, a perforated hood arranged at said opening, a closure movably mounted at said opening and arranged to be displaced against said hood, said closure having an opening there-through, and a further closure movably mounted at said opening of said first closure.

3. A ventilator having separated frames provided with openings, a screen connecting said frames, and a closure adapted to be arranged at either of said frames.

4. A ventilator having a frame having an opening, a hood arranged at said frame and having a hood frame at an angle with said first frame and provided with an opening, a closure pivoted between said frames and adapted to be arranged at either of the same, said closure having an opening therethrough, and a further closure movably arranged at said opening of said first closure.

5. A ventilator having frames at an angle with each other and provided with openings, a screen connecting said frames and forming a hood, a closure pivoted between said frames and adapted to be arranged at either of the same, means for normally holding said closure against one of said frames, means for holding said closure against the other of said frames, said closure having an opening there-through, and a further closure movably arranged at said opening of said first closure, said further closure being transparent and having means holding it normally closed.

6. A ventilator having a sash presenting an opening, a hood at said opening, having a hood frame at an angle with said sash and provided with an opening, and a swinging closure arranged to be positioned at said opening or against said hood frame, said hood having a perforated part.

7. A ventilator comprising a plate presenting an opening, a hood arranged at said opening and having a hood frame at an angle with said plate and provided with an opening, a frame pivoted between said hood frame and said plate and constituting a closure for said opening, means holding said frame normally against said plate, means for holding said frame against said hood frame, said frame having an opening therethrough, a window pivoted in said opening of said frame, means for holding said window normally closed, and means for holding said window open, said hood including a screen.

8. A ventilator comprising a sash, a plate arranged within said sash and having an opening, a frame pivoted at one edge of said opening, a hood frame secured to said plate adjacent to said edge of said opening at which said frame is pivoted, said hood frame being inclined outward from said plate and having an opening, a screen connecting said hood frame and said hood, resilient means holding said frame normally against said plate, means for securing said frame in position against said hood frame, a window pivoted upon said frame, means for holding said window normally closed, and means for holding said window open when said frame is positioned against said plate or said hood frame, said window being transparent.

9. A ventilator comprising a plate having an opening, a hood frame at an angle with said plate and secured thereto and having an opening, sides connecting said plate and said hood frame adjacent to the intersection thereof, a screen between said plate, said sides and said hood frame, a rod pivoted between said sides and having one end laterally disposed to form an arm, a frame rigid with said rod and adapted to rest against said

plate or against said hood frame, a resilient member secured to said plate and said arm and normally holding said frame against said plate, means for holding said arm removably in position, such that said frame rests against said hood frame, and a window pivoted upon said frame and having rim sections adapted to engage an opposite side of said frame, said window having a transparent portion and being provided with an arm controlling said window, means for holding said window normally closed, and means for holding said window open.

10. A ventilator comprising a plate having an opening, a frame pivoted at one edge of said opening, said plate having a laterally extending double flange at the remaining edges of said opening, a hood frame at an angle with said plate and secured thereto adjacent to the edge at which said frame is pivoted, said hood frame having a double flange corresponding to that of said plate and being provided with an opening, a screen secured in said double flange, means for normally holding said frame against said plate, means for removably holding said frame against said hood frame, whereby said opening is left unobstructed, a pivoted, transparent closure in said frame and having rim sections adapted to engage at opposite sides thereof, means for holding said closure normally closed, and means for removably holding said closure open.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HYMEN SHLAMOWITZ.

Witnesses:

THEO. G. HOSTER,
EVERARD B. MARSHALL.