

W. H. DEAN.
WINDOW VENTILATOR.
APPLICATION FILED SEPT. 23, 1908.

933,421.

Patented Sept. 7, 1909.

Fig. 1.

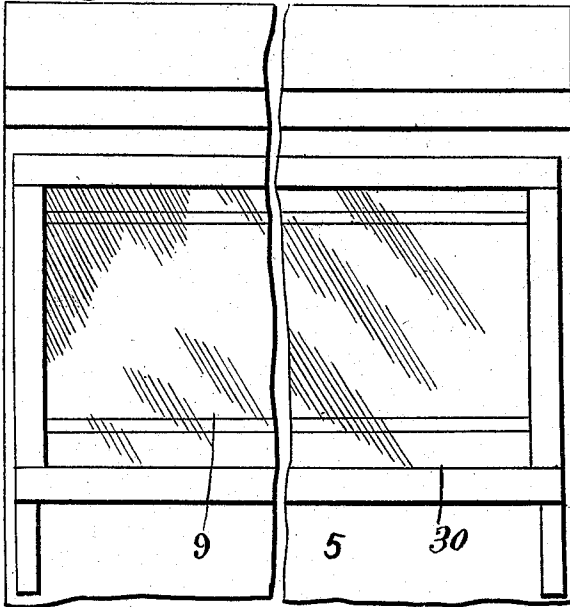


Fig. 2.

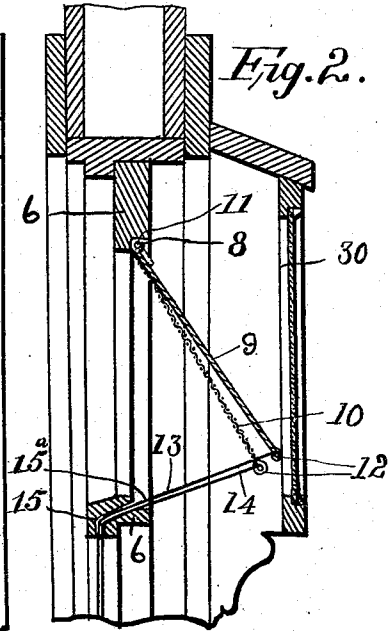


Fig. 3. Fig. 4.

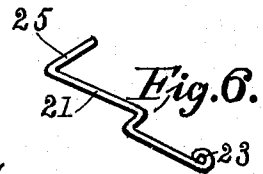
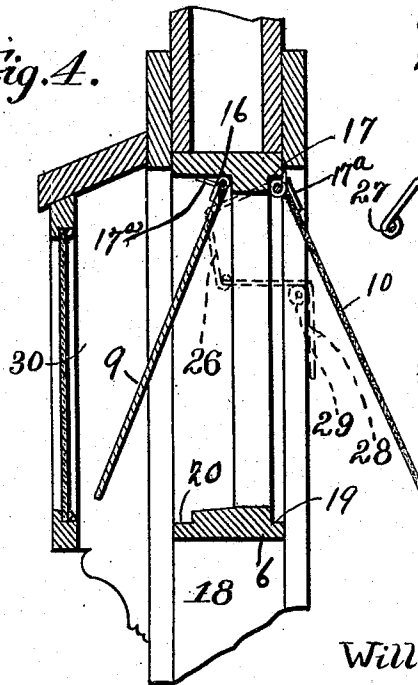
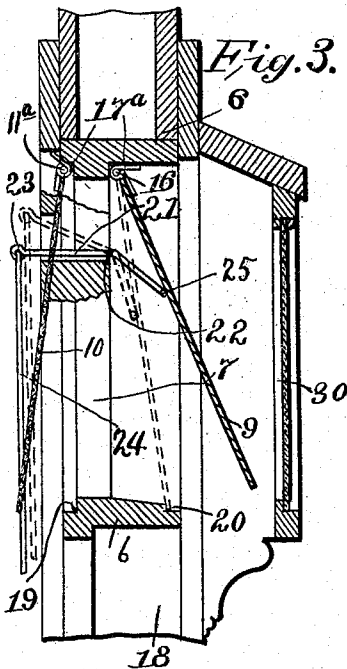
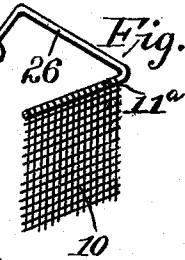


Fig. 5.



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Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM H. DEAN, OF GIANT, CALIFORNIA.

WINDOW-VENTILATOR.

933,421.

Specification of Letters Patent.

Patented Sept. 7, 1909.

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To all whom it may concern:

Be it known that I, WILLIAM H. DEAN, citizen of the United States, residing at Giant, in the county of Contra Costa and State of California, 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.

My invention relates to certain new and useful improvements in ventilators, and is designed to provide a device of the class described which may be applied to a window, door, or similar structure, and preferably at the top thereof, and which can be adjusted to admit and direct toward the ceiling air from the external atmosphere and prevent the possibility of a direct draft striking the occupants of the room.

Essentially my invention contemplates the employment of an auxiliary frame which is adapted to carry a screen and a shutter, both of the latter being independently movable of each other so that if for any reason it is desired to utilize the screen conjunctively with or without the shutter the same may be attained in a facile manner.

With these and other objects in view, the preferred embodiment of my invention resides in that construction and arrangement of parts hereinafter described, illustrated in the accompanying drawings, and embraced within the scope of the appended claims.

In said drawings:—Figure I is a front elevation of the upper portion of a window showing the adaptation of my improvement. Fig. II is a central vertical section thereof. Figs. III and IV are central vertical sections of a door showing the application of the invention, the views being in reverse relation to each other in order to clearly illustrate the manner of mounting the screen and shutter. Figs. V and VI are perspective views, respectively, of the screen connecting link and the shutter connecting link as illustrated in Figs. IV and V of the drawings.

Referring more particularly to the drawings for a detail description of my invention the numeral 5 designates an ordinary type of window having interposed at the upper portion thereof and permanently secured thereto, an auxiliary frame (6) with an opening (7) for ventilation purposes. Adjacent the upper terminal of said auxiliary frame (6), as clearly exhibited in Fig. II of the drawings, is a transversely extending

rod (8) upon which are pivotally mounted a shutter (9) and a screen (10), the same being maintained in a normally and outwardly swung position by the coil spring (11), the lower distal ends of said shutter and screen having eyelets (12) to which are suitably attached the operating cords (13) and (14), the latter passing from said points of connection through the aperture or channel (15) in the lower part of said auxiliary frame and thence a suitable distance so that it may be readily accessible. The base of the frame (6) is cut away, as at (15^a), to accommodate the lower end portions of the shutter and screen. It will thus be seen by this arrangement that the shutter and screen may be simultaneously opened or closed by the appropriate manipulation of the cord (13) the screen being operated independently by the cord (14). In Figs. III and IV the same principle of my invention is involved, the only deviation being that the said shutters and screens are mounted on opposite sides of the frame (6), as at 16 and 17, and each actuated by the coil springs (17^a) the said frame being incorporated as a part of a door, as indicated by the numeral 18, the base portion of the frame being rabbeted, as at 19 and 20, to receive the respective end portions of the shutter and screen. To provide for this change it will be noted that the channel (15) as shown in Fig. II of the drawings and the eyelets (12) of the shutter and screen have been dispensed with and in lieu thereof, I employ an angular crank lever (21), illustrated in detail in Fig. VI which is pivoted on the outside of the frame portion proximate the upper end thereof, as at 22, one terminal thereof being provided with an eyelet (23) for connection with the operating chain, cord, or the like (24), the other terminal (25) being designed to freely engage the inner side of the shutter (9) and cause the same to oscillate from a closed to an open position, or vice versa, when the said cord is operated.

Referring particularly to Figs. IV and V it will be observed that the screen lever (26) is preferably formed as an integral part of the transversely extending rod (11^a) upon which the said screen swings, being rearwardly and downwardly bent in substantially right angularly contour and having its distal end provided with an eyelet (27), which is secured to the operating cord (28), the latter passing over the guide pulley (29),

carried by the inner side of the door frame. It will be understood, of course, that the shutter-operating lever 21 and the screen-operating lever 26 are disposed at opposite ends of the frame 6. Outside of the structure whether it be a door, or a window I mount a hood (30).

In practical use a constant current of fresh air is provided throughout the room without the irregular drafts and currents attendant upon open doors and windows, the means usually relied upon for ventilation, and at the same time the screen precludes the entrance of insects, foreign particles, and the like.

My invention is simple in operation, economical to install, and may be utilized with facility and with efficacious results.

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

1. A ventilator for doors and windows, comprising a frame, pivot rods carried thereby and disposed opposite each other, a shutter carried by one rod, a screen carried by the other rod, means for normally retaining said screen and shutter in open positions, and means for closing the same.

2. A ventilator for doors and windows, comprising a frame, a shutter pivotally mounted in said frame, a screen also pivot-

ally mounted in the frame, independent means for normally swinging said shutter and screen in opposite directions to open the same, and independent means for closing the shutter and screen.

3. A device of the character described, comprising a ventilating frame and a weather hood, rods mounted on opposite sides of said frame, a shutter and screen carried by the respective rods, springs for maintaining the shutter and screen normally open, and means for closing the shutter and screen.

4. A device of the character described, comprising a ventilating frame and a weather hood, rods mounted on opposite sides of said frame, a shutter and screen carried by the respective rods, springs for maintaining the shutter and screen normally open, a crank arm formed integrally with the screen rod, a lever pivoted to said frame and having an angular deflected terminal for engagement with the shutter rod, and operating cords connected to said arm and lever.

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

WILLIAM H. DEAN.

Witnesses:

ADAM F. DEAN,
G. E. BAILEY.