

E. GOLDBERG.
 VENTILATOR FOR HOUSES.
 APPLICATION FILED NOV. 8, 1910.

1,014,058.

Patented Jan. 9, 1912.

2 SHEETS—SHEET 1.

Fig. 1.

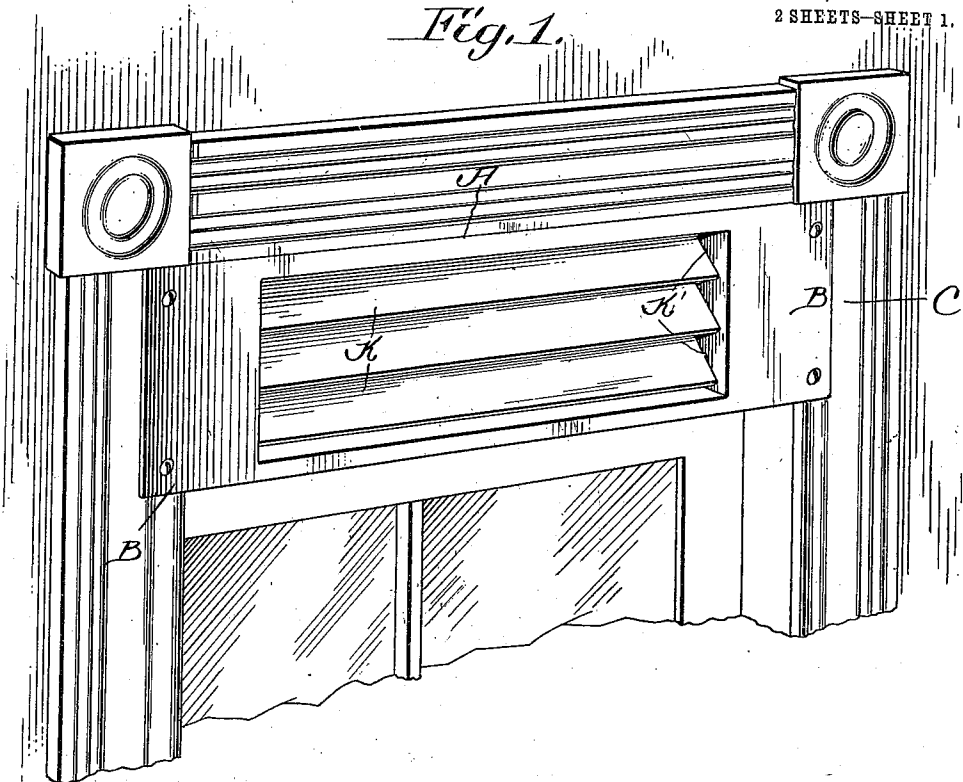
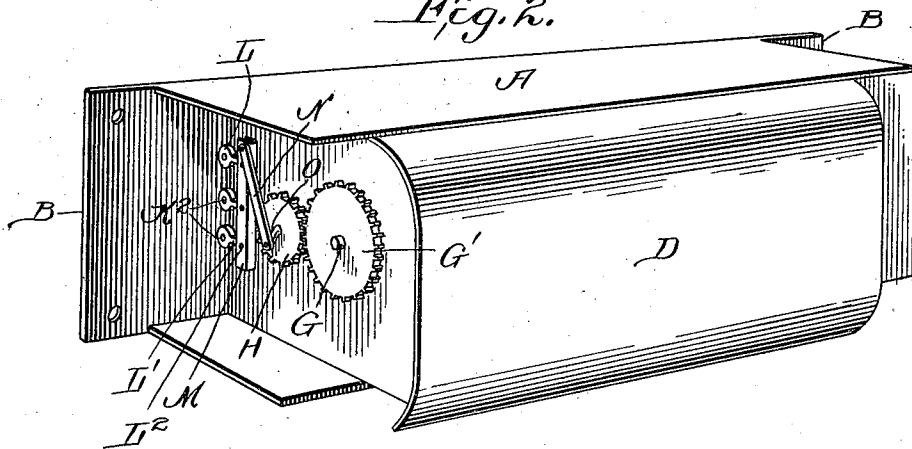


Fig. 2.



Witnesses

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2 SHEETS—SHEET 2.

Fig. 3.

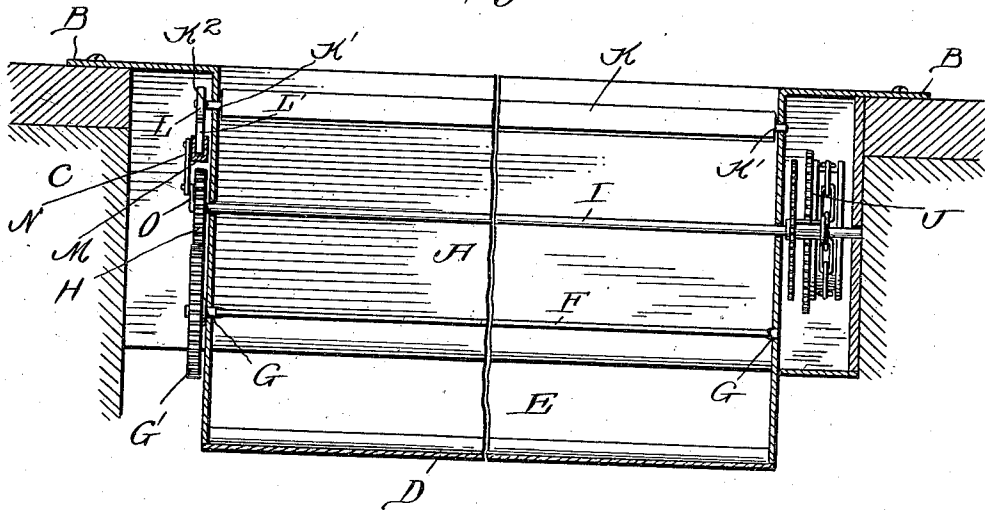


Fig. 5.

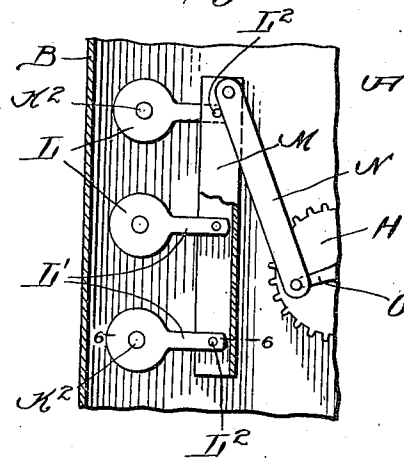


Fig. 4.

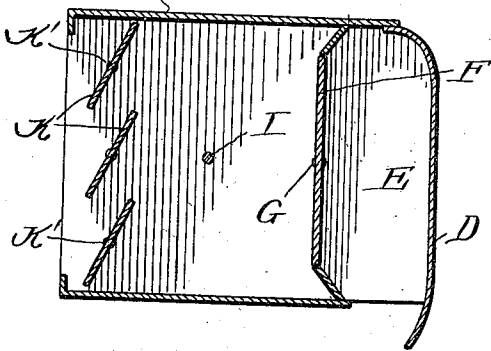
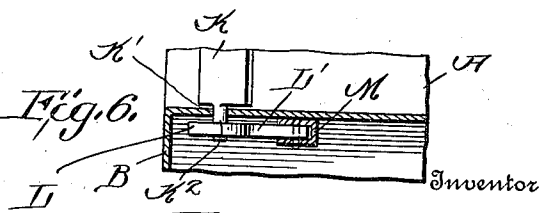


Fig. 6.



Witnesses

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UNITED STATES PATENT OFFICE.

EDWARD GOLDBERG, OF MALDEN, MASSACHUSETTS.

VENTILATOR FOR HOUSES.

1,014,058.

Specification of Letters Patent.

Patented Jan. 9, 1912.

Application filed November 8, 1910. Serial No. 591,232.

To all whom it may concern:

Be it known that I, EDWARD GOLDBERG, a citizen of the United States, residing at Malden, in the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Ventilators for Houses, of which the following is a specification.

This invention relates to a ventilating device adapted to be placed in the upper portion of a window casing, and to project outwardly, the object of the invention being to admit air into a room intermittently and in such manner as to avoid a continuous draft by breaking up the air currents.

With these objects in view, the invention consists in the novel features of construction, combination and arrangement of parts hereinafter fully described and pointed out in the claims.

In the drawing forming a part of this specification: Figure 1 is a perspective view of the inside of a window frame showing the application of my improved ventilator. Fig. 2 is a perspective view of the ventilator detached. Fig. 3 is a horizontal section through the ventilator showing the same in position within a window frame. Fig. 4 is a vertical perspective section. Fig. 5 is a detail enlarged side elevation of the shutter operating mechanism. Fig. 6 is a section taken on line 6—6 of Fig. 5.

In carrying out my improved invention, I employ an oblong casing A which is provided with an enlarged face plate B having openings through which screws are adapted to pass for securing the same within the window frame C above the upper sash as clearly shown in Fig. 1. The casing A projects outwardly as shown and is provided with a hood D for preventing rain and snow from entering the casing, said hood forms the outer wall of an air shaft E, the inner wall of which is provided with an opening communicating with the casing and in which is mounted a fan F, the blades of which are of such a size that they will completely close the opening as shown in Fig. 4. The blades are mounted on a shaft G extending longitudinally through the casing which is provided with a gear wheel G' at one end of which is arranged within a compartment formed at the end of the casing. The gear wheel G' meshes with a gear wheel H carried by a shaft I extending longitudinally through the casing, and said shaft is driven

by a clock work J arranged within a compartment formed at the opposite end of the casing.

The face of the casing is provided with an opening, and mounted within the casing is a series of vertically arranged slats K carried by shafts K' which are mounted within the respective walls of the casing, and said shafts project through the wall of the casing as shown at K² and on which are mounted disks L provided with arms L' which extend into the bifurcation or grooved portion of an operating bar M as clearly shown in Fig. 5, said arms being pivotally mounted therein on pivot pins L², whereby said shafts will be rocked as the bar M is oscillated. The bar M is driven by a pitman rod N carried by a crank O formed on the end of the shaft I, whereby said bar will be oscillated when said shaft is rotated so as to open and close the slats.

The transmission mechanism H and G' is so proportioned that the shutter will be opened and closed once during each revolution of the blades F, so that a portion of the time the shutters will be in closed position while the fan blades are in closed position and at other times the shutter will be opened while the fan blades are open, and in this manner air will be admitted to or drawn from the room intermittently, thereby avoiding any continuous in or out draft, as in the case of the lowering of an ordinary window from the top.

The ventilator is built to conform to the thickness of the wall so that it will not interfere with the closing of the house blinds. The opening of the air shaft can be built so as to give the required amount of air for maintaining the atmosphere in the room thoroughly pure and healthful.

What I claim is:—

1. A device of the kind described, comprising a casing adapted to fit within the upper portion of a window frame and extending outwardly therefrom, rotatable blades arranged in said casing and adapted to alternately open and close the outer portion of the casing, a shutter mechanism carried by the inner portion of the casing and common means for operating said blades and shutter.

2. A device of the kind described comprising a casing adapted to be arranged in a window frame and extending outwardly, a shutter mechanism arranged at the inner end of the casing, rotatable blades arranged

in the casing and adjacent its outer end, said blades being adapted to close said casing twice during each rotation, means for driving said blades and means connecting the blade driving mechanism with the shutter mechanism, whereby said shutters are opened once during each revolution of said blades.

3. A device of the kind described comprising a casing, a downwardly open hood carried by the casing, transversely arranged shutters carried by the casing and adjacent its inner end, rotatable blades carried by the

casing adjacent the hood, said blades closing the outer entrance to the casing twice during each rotation, a clock mechanism for driving said blades, a reciprocating bar operatively connected to said shutters, and a link mechanism operatively connected to said bar and actuated from said clock mechanism, as and for the purpose set forth. 15 20

EDWARD GOLDBERG.

Witnesses:

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HYMAN COHEN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."