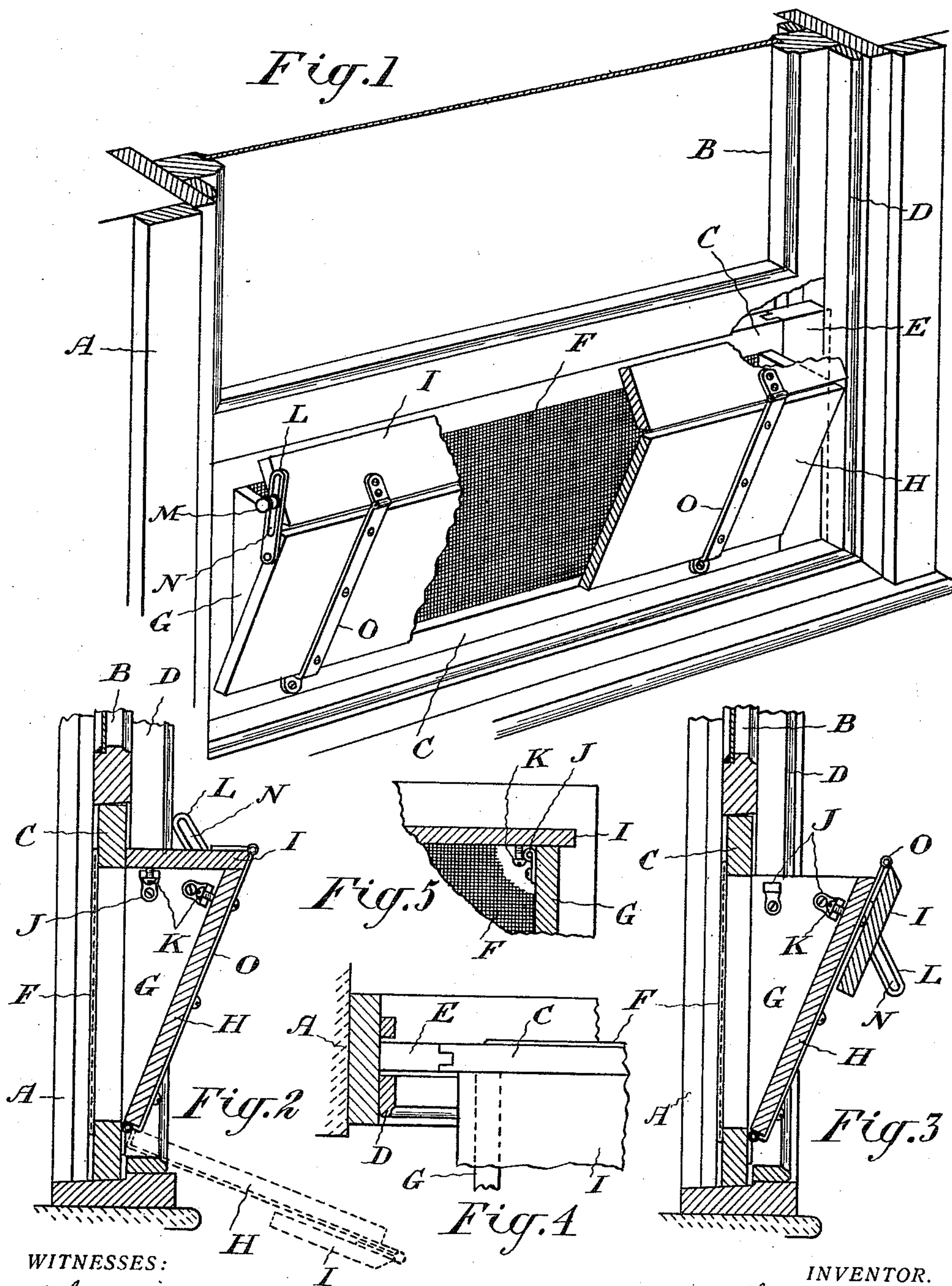


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WITNESSES:

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998,608.

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To all whom it may concern:

Be it known that I, ALEXANDER FLETCHER, of the town of Wiarton, in the Province of Ontario, Canada, have invented certain new and useful Improvements in Ventilators, of which the following is a specification.

This invention relates particularly to ventilators intended to be inserted below a partly opened window for the purpose of controlling and directing the air admitted through the opening.

The object of my invention is to devise means for obtaining perfect control of the amount of air admitted and of the direction in which it enters the room and this object I attain by means of the constructions hereinafter specifically described and illustrated in the accompanying drawings.

Figure 1 is a perspective view showing part of a window and window frame with my improved ventilator in position the latter being partly broken away to exhibit the construction. Fig. 2 is a vertical section of the ventilator in place in a window, the ventilator being shown completely closed in full lines and completely open in dotted lines. Fig. 3 is a similar view showing the ventilator with the lid hinged back. Fig. 4 is a sectional detail showing particularly one of the filling pieces used in adjusting the width of the ventilator to the window on which it is used. Fig. 5 is a sectional detail showing one of the spring latches.

In the drawings like letters of reference indicate corresponding parts in the different figures.

A is a window frame and B a sash sliding therein in the usual manner.

C is the frame of the ventilator which is adapted to be fitted beneath the lower edge of the window sash and between the stops D, serving as guides for the latter. The frame is preferably fitted to the exact width of the window by means of the filling pieces E which may be fitted by means of a tongue and groove connection to the ends of the frame C to fill it out to the required width. This frame is formed with an opening covered with a wire netting F which will admit air while excluding flies and larger particles of dust and dirt. Secured to the ends of the frame are the end pieces G preferably triangular.

H is a back hinged at its lower edge on the frame C and forming with the end pieces a trough. Hinged to the top of the back is

a lid I which when closed rests on the end pieces and entirely closes the top of the trough formed by the back and end pieces. Suitable locks are provided to hold the back and lid in closed positions. Each lock comprises a spring catch J and engaging part K which may be a screw, as shown. These catches will engage and disengage by a push or pull, but are, however, sufficiently secured to hold the parts against any accidental engagement.

By hinging the back and lid downwardly to the position shown in dotted lines in Fig. 2 the full benefit of the air opening of the ventilator may be obtained, the air flowing straight into the room. If too much draft is created in this manner, the back may be closed as indicated in Fig. 3. In this case air entering is directed upwardly and inwardly up the inclined back and diffused through the room without creating a draft. If no draft is wanted through the ventilator the lid and back may both be closed as indicated in full lines in Fig. 2. As it will sometimes happen, particularly when strong winds are blowing, that too much draft is obtained with only the lid open, I provide an adjustment whereby the lid may be held open to any desired extent. I provide for this purpose an arm L pivoted on either the lid or back. I show it as pivoted on the back. A thumb screw M passes through a slot N in the arm and is screwed into the end of the lid. By adjusting the arm and thumb screw the lid may be held at any desired angle to the back. A greater or less amount of air may thus be admitted and the angle at which it is directed into the room varied at will. It will be noted that continuous hinges O are provided for the back and lid, a single strap extending from top to bottom at the back at each hinge. This arrangement stiffens the back and simplifies the construction.

From the above description it will be seen that I have devised a construction which satisfactorily attains the object of my invention as set out in the preamble to this specification.

What I claim as my invention is:—

1. In a ventilator the combination of a frame having an opening therein; end pieces secured to said frame; a back hinged at its lower edge to the frame, and forming with the end pieces a trough, said back being adapted to be swung down to a substantially

horizontal position; and a lid hinged on the back and adapted to close the top of said trough.

2. In a ventilator the combination of a
5 frame having an opening therein; end pieces
secured to said frame; a back hinged at its
lower edge to the frame and forming with
the end pieces a trough; a lid hinged on the
back and adapted to close the top of said
10 trough; and means connecting the back and
lid for holding the latter at any desired an-
gle to the former.

3. In a ventilator the combination of a
15 frame having an opening therein; end pieces
secured to said frame; a back hinged at its
lower edge to the frame and forming with
the end pieces a trough, said back being
adapted to be swung down to a substantially
horizontal position; a lid hinged on the back
20 and adapted to close the top of said trough;

a spring catch for releasably locking the
back to the end pieces; and a spring catch
for releasably holding the back to the ends.

4. In a ventilator the combination of a
frame having an opening therein; end pieces 25
secured to said frame; a back hinged at its
lower edge to the frame and forming with
the end pieces a trough; a lid hinged on the
back and adapted to close the top of said
trough; a spring catch for releasably lock- 30
ing the back to the end pieces; a spring catch
for releasably holding the back to the ends;
and means connecting the back and lid for
holding the latter at any desired angle to the
former.

Signed this 16th day of January 1911.

ALEXANDER FLETCHER.

In the presence of—

D. M. JERMYN,

J. W. HEPBURN.

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