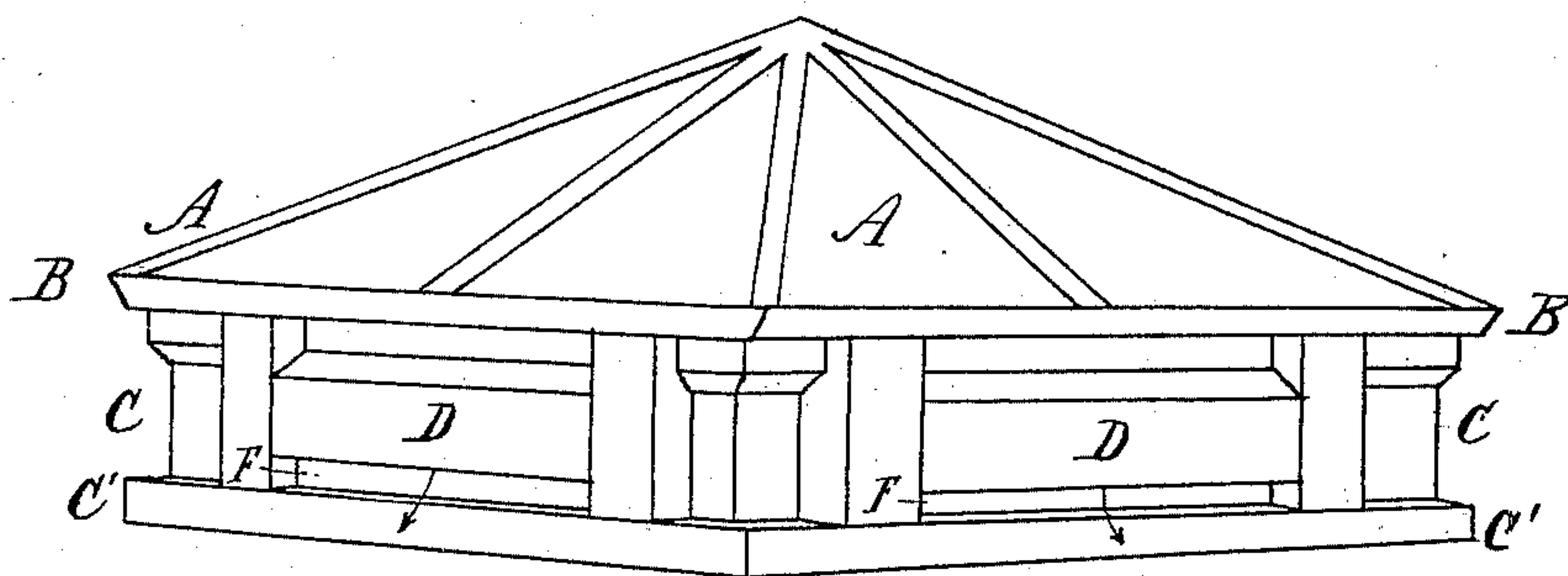


(No Model.)

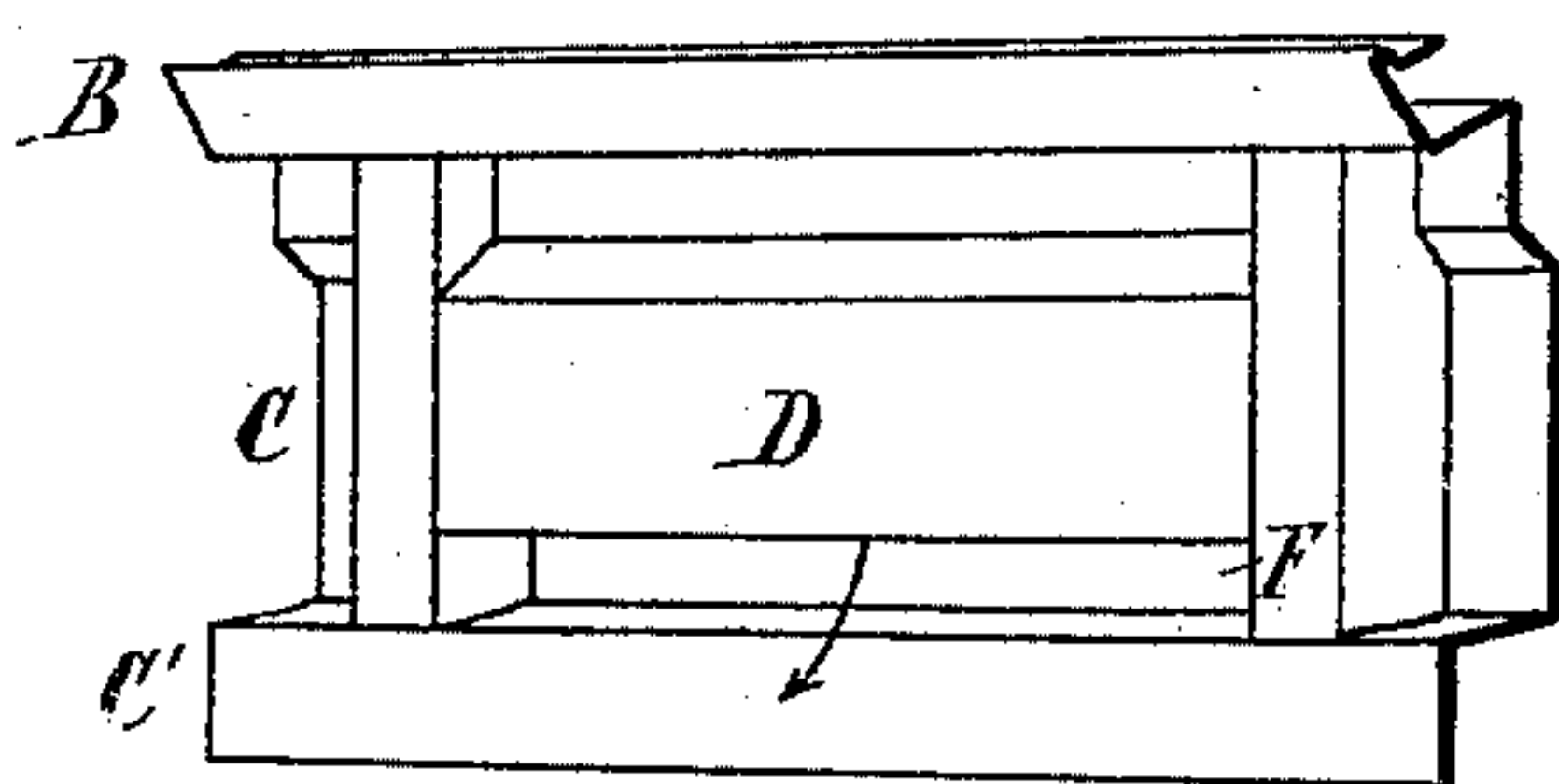
G. HAYES.  
METALLIC SKYLIGHT.

No. 277,485.

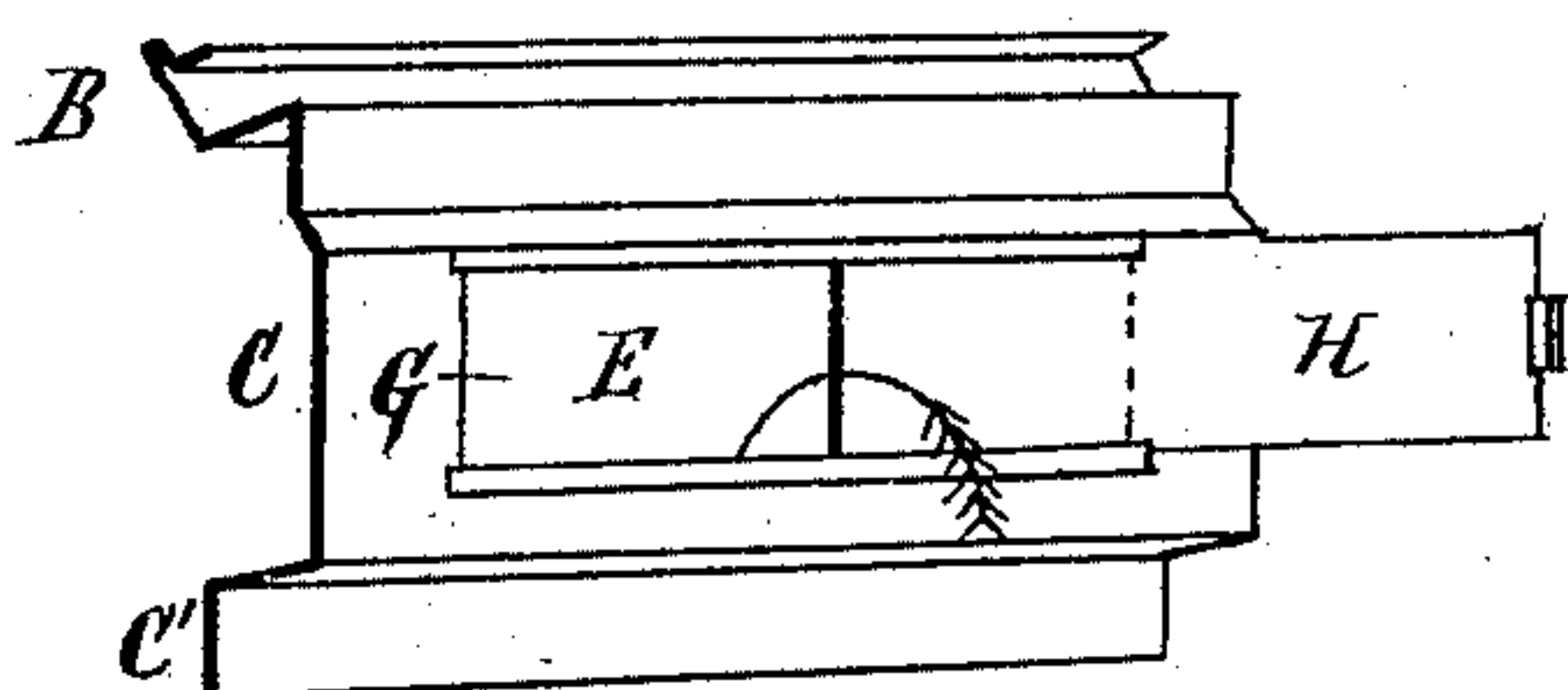
Patented May 15, 1883.



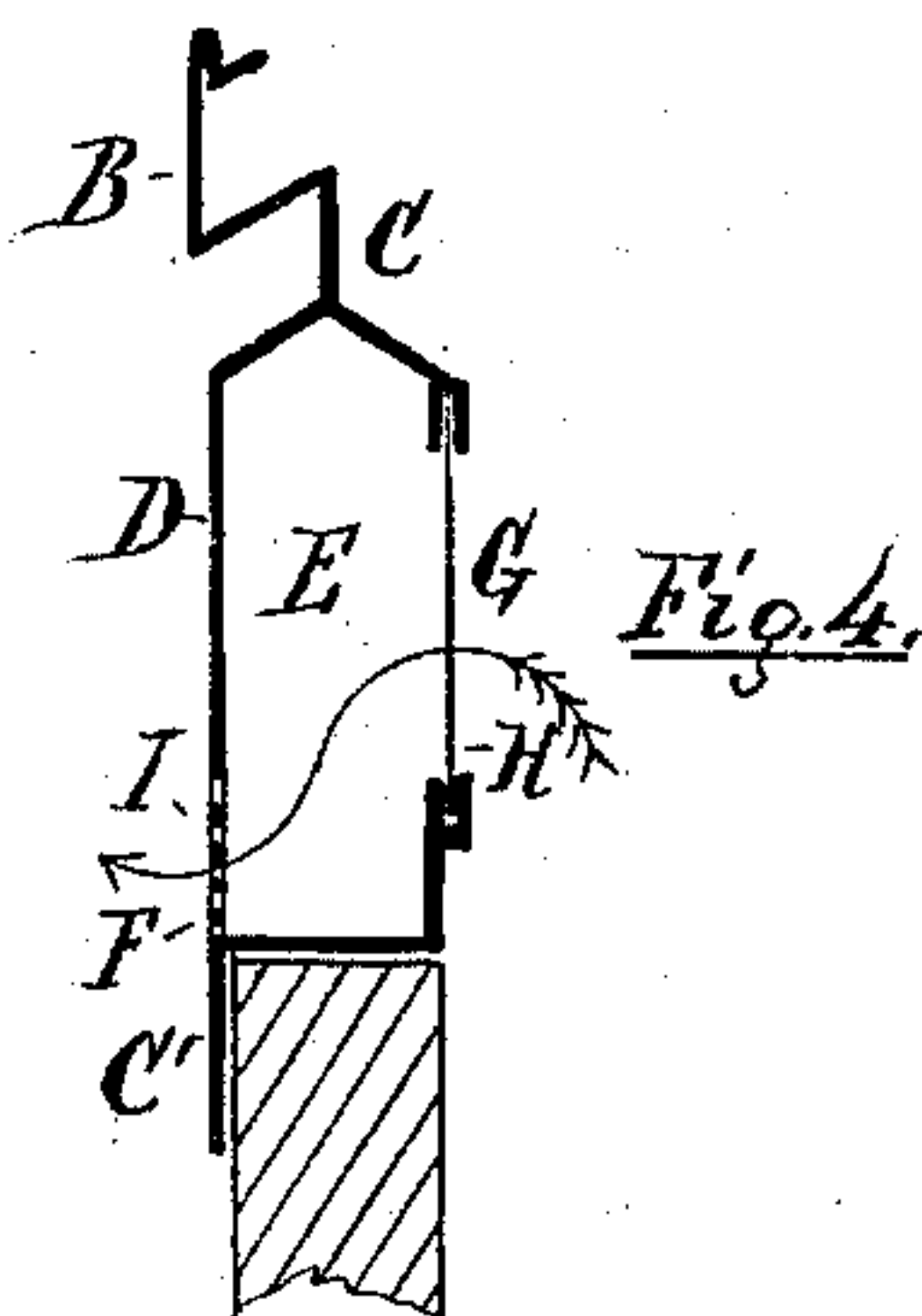
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



*Fig. 4.*

*Witnesses:*  
*Richard H. Reile*  
*Henry Woollett*

*Inventor:*  
*Geo. Hayes*

# UNITED STATES PATENT OFFICE.

GEORGE HAYES, OF NEW YORK, N. Y.

## METALLIC SKYLIGHT.

SPECIFICATION forming part of Letters Patent No. 277,485, dated May 15, 1883.

Application filed July 24, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE HAYES, a resident of the city, county, and State of New York, have invented a new and useful Improvement in Metallic Skylights, of which the following is a specification.

My invention consists in a supplemental base-frame, upon which the skylight-frame rests or to which it is attached, the supplemental frame provided with one or more ventilating devices formed therein, consisting of a boxed or inclosed chamber apertured outwardly and inwardly, and having a regulating valve, slide, or damper covering, when closed, one of the said apertures, and a perforated metallic plate covering one or both of the openings when desired, the object being, primarily, to obtain secure ventilation at the base of the skylight, and thereby dispense with the ordinary ridge-ventilator, occupying usually a space centrally in the light, causing more or less obstruction thereto, although my new base-ventilator may be used in conjunction with a ridge-ventilator where desired and the circumstances of the case render it desirable to use them together in the same structure; and, secondarily, to provide ventilation at the base of the skylight structure, which, while affording ample ventilation, will be storm-proof and weather-tight, thereby avoiding leakage or drip. It may be formed of one piece with the base-frame proper of the skylight, or of separate pieces united thereto by any suitable means. The ventilators may be of any suitable length and any suitable number, and located at the sides or ends or both sides and ends of the skylights, and are adapted to be used with any form of skylight—flat, double-pitched, or hipped lights.

In the accompanying drawings, Figure 1 is a view in perspective of a skylight structure provided with my supplemental base-frame, showing ventilators therein. Fig. 2 is an outside view, in perspective, of a ventilator and portions of supplemental frame. Fig. 3 is an inside view, in perspective, of a ventilator, showing sliding valve. Fig. 4 is a vertical section through skylight, base-frame, supplemental frame, ventilator-box, valve, and perforated plate covering outside aperture to the ventilating-chamber.

A represents a skylight structure; B, the base frame thereof, supporting the bars or rafters thereof.

C represents the supplemental base-frame, its lower part, C', resting on the wooden curb of the building-roof.

D represents the box-ventilators, arranged in and forming a part of the supplemental base-frame, the chamber therein marked E, the outer aperture F, and the inner G.

At H is shown the valve, slide, or damper used for regulating ingress or egress of air-currents.

I represents a perforated metal plate protecting the opening from indriving snow, sleet, or rain, &c. This perforated plate I is made of sheet metal, and its object is to break up the force of the wind, the perforations therein being small enough to prevent entrance of birds or insects, admitting only air. The force of the wind being broken, any mist or vapor from snow or rain can only reach the interior of chamber E, whence it escapes backward through lower apertures of perforated plate I to the outer air, over the lower part of base C', and away from the skylight. Wire-gauze may be used instead of perforated plate, if desired, the object being to obstruct the entrance of air as little as possible consistent with the breaking up of snowflakes and rain-drops into mist or vapor. This perforated plate or apertured shield may be dispensed with whenever proper, so as to admit air more freely, as might be found desirable in localities where not troubled with snow-storms or driving rains.

The regulating device may be hinged or pivoted and adapted for turning to open or close the opening, as in Fig. 3, or made to slide in grooves or otherwise, as shown in Fig. 4.

I do not restrict myself to the shape or style of valve or damper, as it may be curved or otherwise, and secured by any suitable means—hinged, pivoted, or arranged to operate in any suitable manner.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

1. A supplemental base-frame for a skylight, between skylight and curb, provided with chamber E, inclosed by boxing D, the outer walls thereof apertured, as at F, and the inner



walls apertured, as at G, and provided with regulating valve, slide, or damper H, substantially as shown and described.

2. A ventilator consisting of chamber E,  
5 its outer walls apertured, as at F, and inner walls thereof, as at G, constructed in and forming part of the base-frame C, (supplemental to

a skylight structure,) and provided with valve, slide, or damper H, substantially as shown and described.

GEO. HAYES.

Witnesses:

RICHARD H. REILLE,  
HENRY WOOLLETT.