(No Model.)

G. HAYES.

VENTILATING SKYLIGHT.

No. 345,688. Patented July 20, 1886.

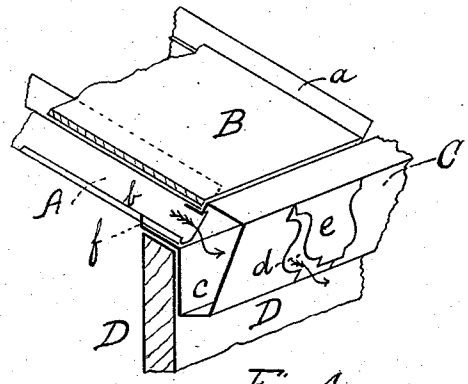


Fig. 1.

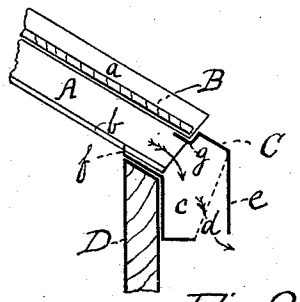


Fig. 2.

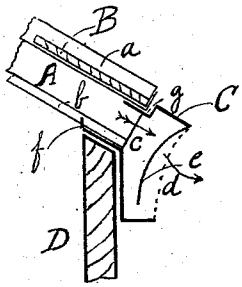


Fig. 3.

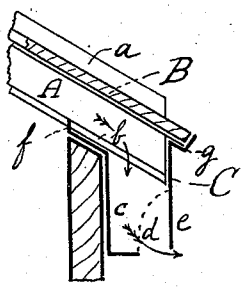


Fig. 4.

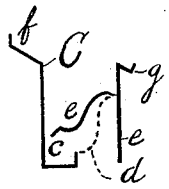


Fig. 6.

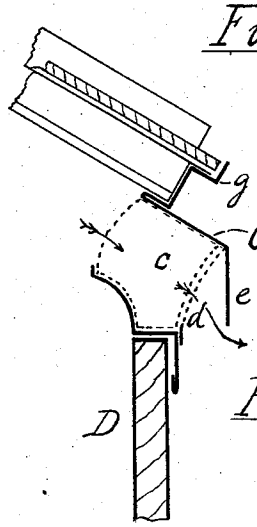


Fig. 5.

WITNESSES

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UNITED STATES PATENT OFFICE.

GEORGE HAYES, OF NEW YORK, N. Y.

VENTILATING-SKYLIGHT.

SPECIFICATION forming part of Letters Patent No. 345,688, dated July 20, 1886.

Application filed May 22, 1885. Serial No. 166,353. (No model.)

To all whom it may concern:

Be it known that I, GEORGE HAYES, a citizen of the United States, and a resident of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Ventilating-Skylights, of which the following is a specification.

My invention relates to skylights, having for one of the objects ventilation; and it consists in providing ventilation in the base-frame in such a manner as to be in immediate association with the bars or rafters and other parts of the skylight, so as to act in direct combination therewith, and at the same time give the desired effect in such a manner that but very little is added to the cost of skylights having no such provision as ventilation, and also that none of the provisions for catching the condensed vapors, usually made in skylights, shall be interfered with, and also that good ventilation shall be obtained without leakage from rain or snow storms.

Said invention has for its object partially the same as that described and claimed in Patent No. 248,858, issued to me November 1, 1881, but being an improvement thereon in that it admits of a more direct communication with the interior. At the same time ample protection is afforded against a driving snow, hail, or rain storm.

In the accompanying drawings, Figure 1 is a perspective view of the base-frame, showing guard covering the ventilating-aperture on the outside thereof. Fig. 2 is a vertical section of Fig. 1. Fig. 3 is a vertical section showing guard bent inwardly. Fig. 4 is a vertical section of a modified form of my base-frame. Fig. 5 is a vertical section showing another modification of my base-frame. Fig. 6 is a vertical section of base-frame without any connections, and showing the guard as bent both inward and outward.

Similar letters of reference indicate corresponding parts in all the figures.

A represents the sloping bars or rafters; B, the glass plates; C, the base-frame; D, the curb; *a*, the ridge of sloping bars; *b*, gutters of sloping bars. *c* is a ventilating tube or chamber. *d* is a perforated opening. *e* is the guard. *f* is a projection which is cut away or bent down where bar intersects. *g* is a rabbet formed in base-frame receiving the lower edge of the glass plates.

The base-frame is attached to and combined with the sloping bars at *g*, and at that part just below *f*, by being riveted or soldered, or both, and the skylight when in position is placed over the usual curb.

The base-frame may be made in one or more pieces; but of course it is cheaper to make it in one piece.

The openings of base-frame serve the dual purpose of admitting ventilation and of permitting the escape of the condensed vapor.

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

1. A base-frame of a metallic skylight having a ventilating-chamber formed therein outside the curb, with openings in the front walls thereof, perforated or otherwise formed so that a portion of metal remains attached thereto, forming a shield or guard protecting the opening, essentially as herein described and shown.

2. A base-frame for skylights formed of sheet metal, and having, at intervals along its front, apertures formed therein by cutting partially around and bending away from the face-line of the frame the tongue (or lip) of metal to form a shield or guard for the protection of the opening, essentially as shown and described.

Signed at New York, in the county of New York and State of New York, this 19th day of May, A. D. 1885.

GEO. HAYES.

Witnesses:
JNO. HOVEY,
JACOB J. KOCH.