(No Model.) 2 Sheets—Sheet 1.

G. HAYES.

VENTILATING LOUVER.

No. 313,865. Patented Mar. 17, 1885.

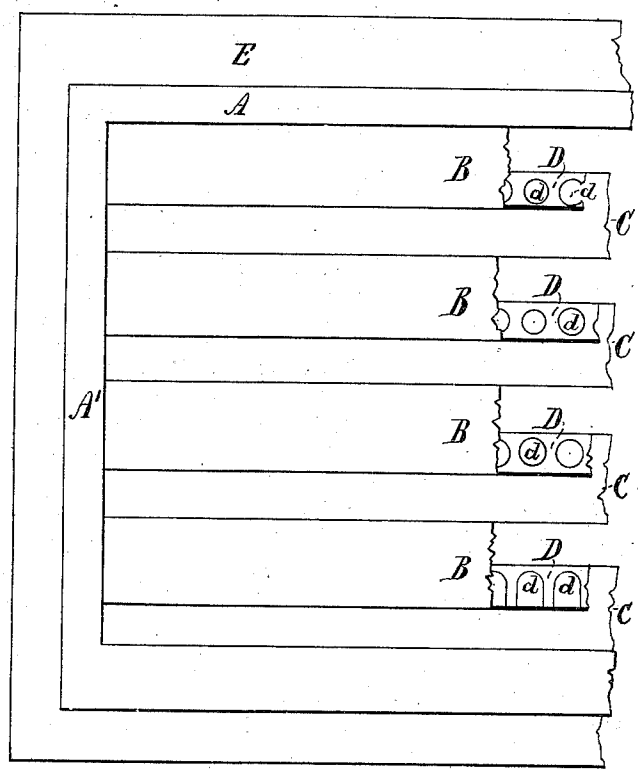


Fig. 1.

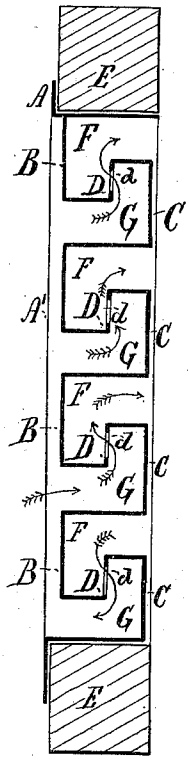


Fig. 2.

WITNESSES:

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Jacob J. Kochs

INVENTOR

Geo. Hayes.

N. PETERS. Photo-Lithographer. Washington. D. C.

(No Model.) 2 Sheets—Sheet 2.

G. HAYES.

VENTILATING LOUVER.

No. 313,865. Patented Mar. 17, 1885.

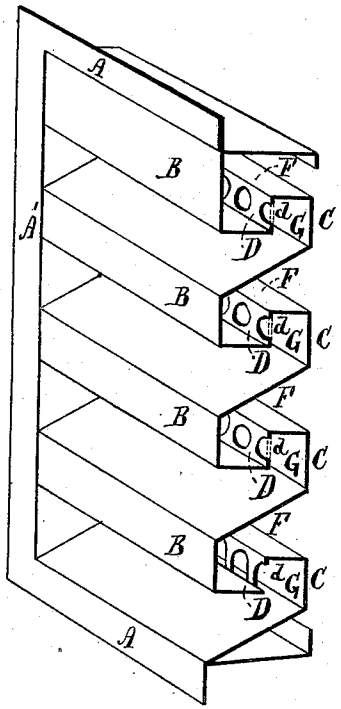


Fig. 3.

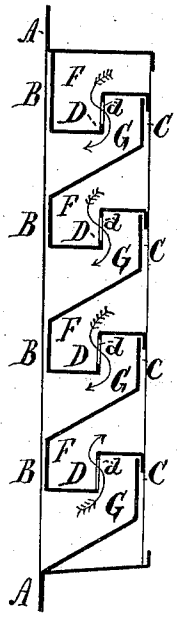


Fig. 4.

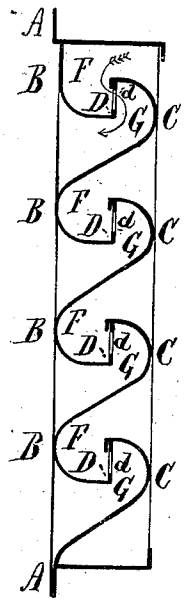


Fig. 5.

WITNESSES:

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UNITED STATES PATENT OFFICE.

GEORGE HAYES, OF NEW YORK, N. Y.

VENTILATING-LOUVER.

SPECIFICATION forming part of Letters Patent No. 313,865, dated March 17, 1885.

Application filed March 29, 1884. (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 Ventilating-Louvers, of which the following is a specification.

The nature of my invention consists of a panel composed of sheet metal formed as a continuous sheet bent outwardly and inwardly at proper intervals to constitute a series of louvers, the folds of the sheet partially inclosing chambers, an upper chamber open to the interior of the structure and a lower chamber open to the exterior, and so on alternating, as many as desired. The portion of the sheet between the inner and outer chambers (being the partition-wall) is provided with apertures for passage of air from the one chamber to the other under cover of each of the projecting louver portions, so as to protect the interior of the structure from influx of snow, hail, rain, &c., while permitting an unobstructed outflow of air-currents. The object of this panel is to provide ventilation in such places as desirable, with protection from storms, and it is intended for use in turret skylights, clear-stories, towers, dormers, soffits, as well as other portions of exterior cornices, bases of skylights, &c. It may also be used in connection with shutters and doors as a ventilating-panel, as well as in many other portions of or appendages to a building, rail-car, or marine vessels, &c.

In the accompanying drawings, Figure 1 is a front elevation of the panel inserted in a vertical wall. Portions of the panel are shown as broken away to illustrate interior construction and position of apertures. Fig. 2 is a vertical section of same. Fig. 3 is a vertical section and partial perspective of the louver-panel, illustrating how several pieces of sheet metal may be joined so as to construct the louvers as a continuous sheet. Fig. 4 is a vertical section showing the joining of the pieces at a different point from that of Fig. 3. Fig. 5 is a vertical section of a modified form of louvers formed as a continuous sheet from pieces joined by solder or any other suitable means.

A represents the outer flange or frame forming the joint or covering piece. A′ represents the side pieces of the same. B represents the blank portions of the shield presented to the weather. C is the corresponding portion on the inside of the panel. D is the portion of the plate or sheet perforated. E is the framework or vertical wall. *d* indicates the apertures for air-passage, ingress occurring when the ventilator is facing the windward and egress when facing the opposite direction. F indicates the chamber open to the interior of the structure, and G indicates the chamber open to the exterior.

I do not confine myself to particular slopes or certain angles, as the drawings show several modifications, which may be multiplied indefinitely.

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

A panel of sheet metal formed as a continuous sheet bent outwardly and inwardly at intervals to constitute a series of double-chambered louvers, one chamber, F, open to the interior of the structure and the other chamber, G, open to the exterior, and the partition D between said chambers provided with apertures *d* for air-passage, substantially as shown and described.

GEO. HAYES.

Witnesses:
JACOB KOCH,
CHARLES HAYES.