(No Model.)

S. E. HYNDMAN.

VENTILATED SHOW WINDOW.

No. 293,028. Patented Feb. 5, 1884.

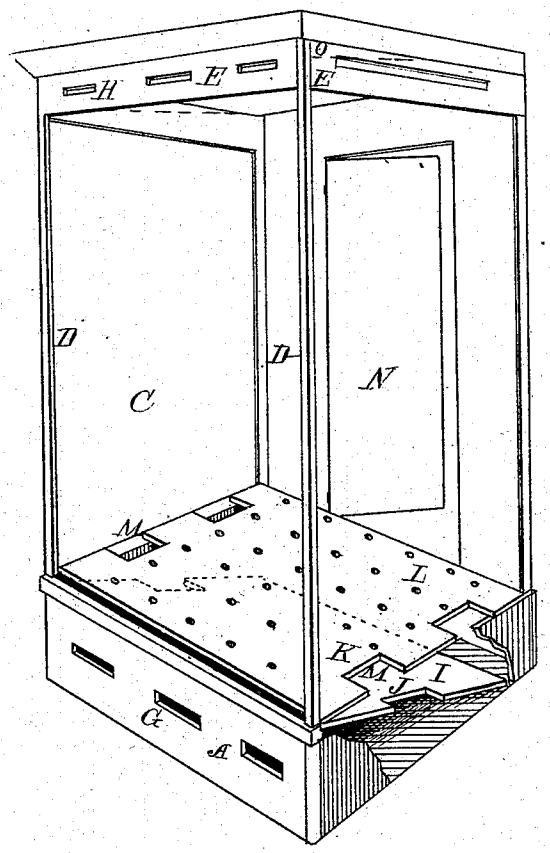


Fig. 1.

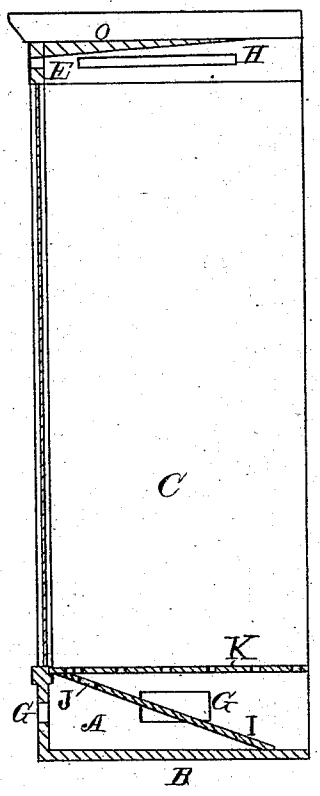


Fig. 2.

WITNESSES:

Robert Kirk

C. H. Jones.

INVENTOR:

S. E. Hyndman

By J. L. Ferbr

Attorney

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

UNITED STATES PATENT OFFICE.

SAMUEL E. HYNDMAN, OF CINCINNATI, OHIO.

VENTILATED SHOW-WINDOW.

SPECIFICATION forming part of Letters Patent No. 293,028, dated February 5, 1884.

Application filed January 23, 1883. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL E. HYNDMAN, of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and useful Improvement in Ventilated Show-Windows, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a perspective view, in section, of my improved ventilated show-window. Fig. 2 is a cross vertical sectional view of the same.

The object of my invention is to provide a simple and easily-constructed show-window so arranged that it can be readily ventilated, and keep the atmosphere at the same temperature on the inside of the show-window as on the outside, thereby preventing the moisture in the atmosphere from condensing on the glass on the inside of the show-window and forming an icy or frosty coating thereon. A show-window having this appliance keeps the exposed glass clear and transparent in the coldest weather, enabling passers-by to readily observe the articles on exhibition.

In the the accompanying drawings, A represents the base-frame of the show-window, having a suitable bottom, B.

C C represent the glass in suitable frames, D D, surmounted by the upper casings, E, as is customary in windows of this kind.

The frame A below is provided with a number of openings, G, to admit cold air. The casing E is also provided with openings H, to allow the air to pass out. Within or on the base of the show-window is an inclined plane or floor, I, having its outer side elevated, so as to reach up to within several inches of the lower line of the front glass. The rear end of this inclined plane or floor rests on the bottom B, near its inner side. This inclined plane or floor I has one or more openings, J, at the front and sides, to admit cold air. By this construction the dust-particles borne in on the entering current will be lodged in the space between the floor K and bottom B, while the air freed from these impurities finds egress at the sides and front through the opening J. Above this inclined plane or floor I is another horizontal floor, K, with perforations L and large openings M at the sides and front. The floor K is designed to place the goods on in the show-window.

N is an ordinary door, which opens into the store.

O is an inclined top to the show-window, which slopes from the rear to the top of the openings H in casings E in the front, to assist the air in passing out.

In operation the cold air enters the openings G below, then passes through the openings I in J and openings M in K and through the perforations L in K, and then coming in contact with the warm air inside of the show-windows forces the warm air up until it reaches the incline O at the top of the show-window, which carries it through the openings H in the casing E to the outside. Thus a constant circulation of cold air is kept up within the show-window, and keeps the temperature of the atmosphere inside of the show-window the same as the outside, and prevents the condensation of moisture on the glass on the inside of the show-window.

I do not claim that it is broadly new to have openings in the lower and upper part of a show-case to provide for the circulation of air through the case.

Having described my invention, what I claim as new is—

1. In show-windows, the lower and upper casings provided with openings G and H, in combination with the inclined plane or floor I, extending nearly to the rear of floor B, with side and front openings, J, and perforated floor K, with openings M, and the incline O at the top, substantially as and for the purpose herein set forth.

2. In a show-window, the upper and lower casings provided with openings G and H, perforated floor K, and the inclined plane I below said floor K, extending nearly to the rear, and having side and front openings, J, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand this 9th day of December, 1882, in the presence of witnesses.

SAMUEL E. HYNDMAN.

Witnesses:
J. S. ZERBE,
O. J. BAILEY.