

E. M. BROCK.

VENTILATOR AND PROTECTOR FOR ROOFS.

No. 183,532.

Patented Oct. 24, 1876.

Fig. 1.

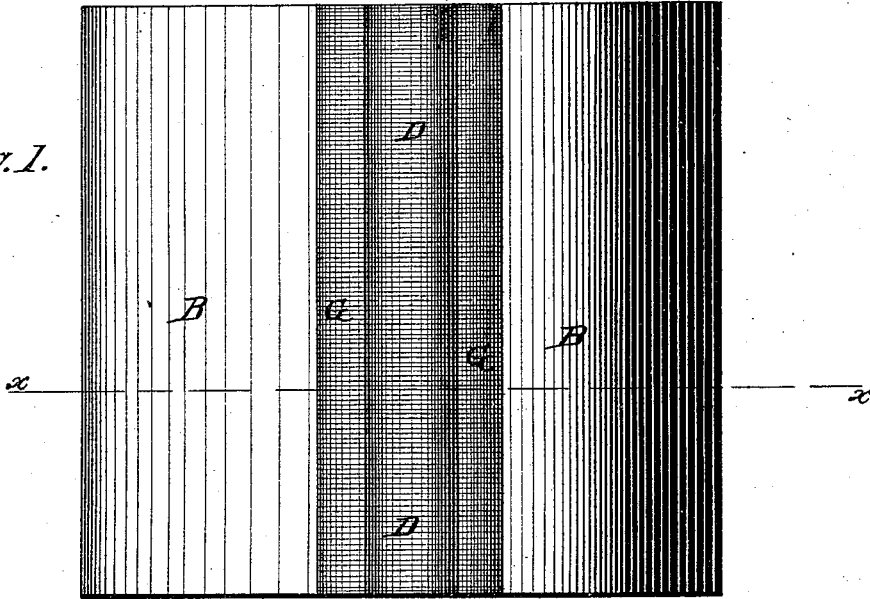


Fig. 2.

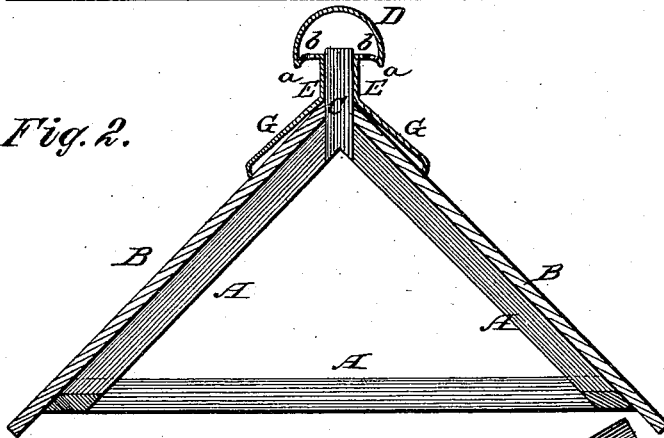


Fig. 3.

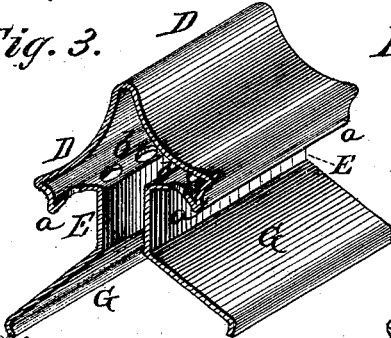
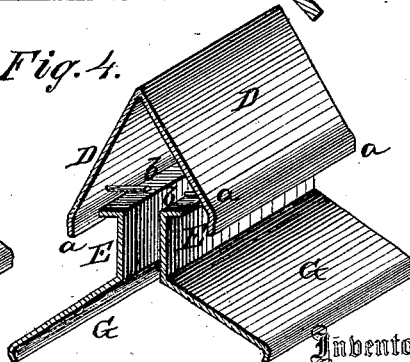


Fig. 4.



Witnesses:

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Per: C. H. Watson & Co., Attorneys.

UNITED STATES PATENT OFFICE.

ERNST M. BROCK, OF GALVESTON, TEXAS.

IMPROVEMENT IN VENTILATORS AND PROTECTORS FOR ROOFS.

Specification forming part of Letters Patent No. **183,582**, dated October 24, 1876; application filed July 25, 1876.

To all whom it may concern:

Be it known that I, ERNST MORITZ BROCK, of Galveston, in the county of Galveston and State of Texas, have invented certain new and useful Improvements in Ventilators and Protectors for Roofs; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The nature of my invention consists in the construction and arrangement of a ventilating combing or ridging for roofs of houses, as will be hereinafter more fully set forth.

In the annexed drawing, Figure 1 is a plan view, and Fig. 2 a cross-section, of a part of a roof embodying my invention. Figs. 3 and 4 show modifications of the combing.

A A represent the rafters of a roof, and B is the sheeting thereof.

To apply my invention, the sheeting and covering of the roof are left about two inches apart at the comb, leaving a continuous opening the entire length of the roof. To the rafters A is then nailed a block, C, to project about three or four inches above the roof. The combing is then placed over these blocks down to the roof, and screwed through the neck into the blocks.

This combing is formed of a cap, D, of any suitable or desired form, from the side edges of which the metal extends inward and upward, forming inclined flanges *b b*. The metal

then extends downward, forming the neck E and the skirt G on each side.

The flanges *b b* are perforated, as shown, or formed with openings of any suitable size, and it will be seen that these openings are above the drip of the water—that is, above the edges *a a* of the cap where the water drips off.

By this means hot air is allowed to escape without any danger of leakage from rain with driving winds.

The peculiar form or design of the combing is immaterial. In Fig. 2 I have shown a simple form, while in Fig. 3 is shown a more elaborate one; and in Fig. 4 I have shown the cap D disconnected from the neck, and secured thereto by arms, so as to leave, as it were, a continuous opening on each side; but in all cases the ventilating-openings are under a projection of the combing, and above the drip of the water.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combing herein described consisting of the cap D, having inclined flanges *b* with openings, edges *a*, neck E, and skirt G, extending outward upon each side the block, all combined and arranged substantially as and for the purpose specified.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

ERNST MORITZ BROCK.

Witnesses:

GUSTAVE FEIST,
RUDOLF L. KRUGER.