W. G. HYNDMAN.

Cap and Anchor for Metallic Roofing.

No. 208,395. Patented Sept. 24, 1878.

Fig. 1.

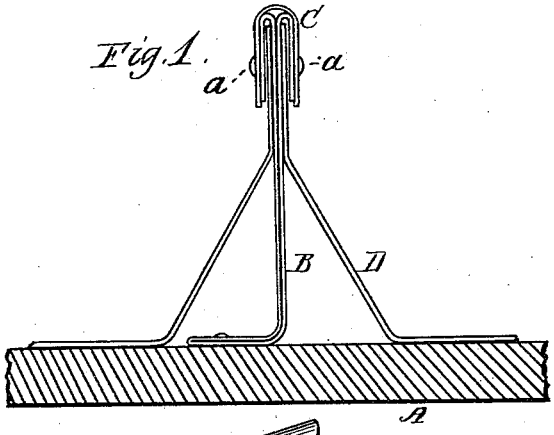


Fig. 2.

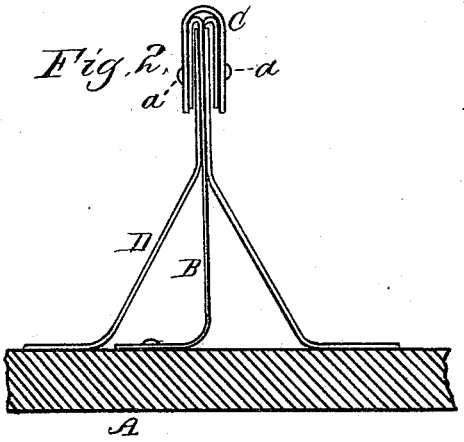


Fig. 3

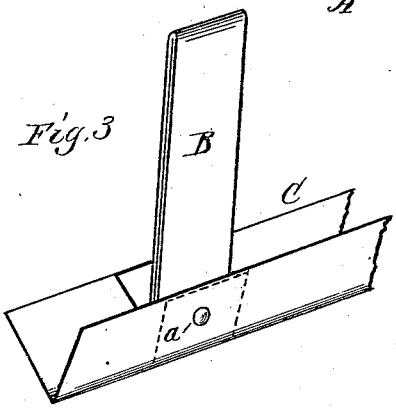


Fig. 4.

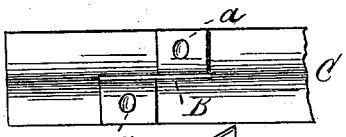


Fig. 5.

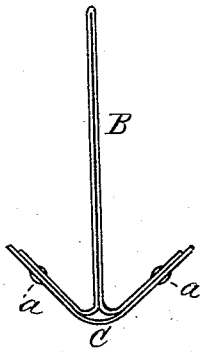
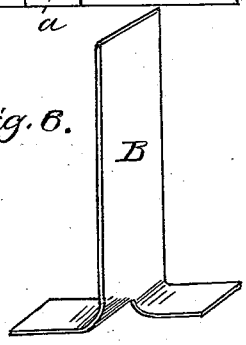


Fig. 6.



WITNESSES.

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WILLIAM G. HYNDMAN, OF CINCINNATI, OHIO.

IMPROVEMENT IN CAPS AND ANCHORS FOR METALLIC ROOFING.

Specification forming part of Letters Patent No. **208,395,** dated September 24, 1878; application filed July 22, 1878.

To all whom it may concern:

Be it known that I, WILLIAM G. HYNDMAN, of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and valuable Improvement in Cap and Anchor for Securing Sheet-Metal Plates to Structures; and do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a transverse section of a joint of roofing made according to my invention. Fig. 2 is a similar view of a modification of the same. Fig. 3 is a perspective view of the cap and anchor. Fig. 4 is a plan view of the modification; Fig. 5, an end view of Fig. 3; Fig 6, a perspective view of the anchor with bifurcated end for securing it to the sides of the cap.

This invention has relation to that class of devices used to secure sheet-metal plates to roofs or other structures, known to the trade as a "cap and anchor;" and has for its object to construct a device of the above character in a manner that will render it strong and durable, and admit of it being prepared in the shop by suitable machinery in a complete form and ready for use upon the roof, thereby greatly lessening the amount of labor experienced with the ordinary cap and cleat, as will be hereinafter described.

In the accompanying drawings, A represents the section of a roof or other structure, and B the anchor, secured at one end to a cap, C, by rivets *a*, which secures and holds the sheet-metal plate D upon the roof.

The anchor B is preferably made from an elongated plate or strip of metal, bent to form a double thickness of metal, the ends thereof being riveted to the cap C and turned down with the cap, as illustrated in Figs. 1, 3, and 5 of the drawings.

The lower end of the anchor is bent at a right angle, in order that it may be secured to the roof by rivets or other suitable means.

Although I have shown and described the above means of forming the anchor by connecting or securing the ends of the same to the cap, it is evident that in place of bending the metal plate or strip double the anchor may be made of a single thickness and slit or cut to form double flanges or a bifurcated end, which may be bent outward and riveted to the sides of the cap, as illustrated in Figs. 2, 4, and 6, such modification being considered a substantial equivalent, and coming within the scope of my invention.

By riveting the anchor to the sides of the cap great strength and durability are obtained over those now in use, also producing a most perfect fastening for the plates of metal, at the same time giving ample room for the contraction and expansion of the sheet-metal plates under the cap, without the possibility of loosening the fastenings of the anchor from the sheetings.

It will be seen that the nails, being under the sheets, are not exposed to the weather, and, there being no nails, screws, or rivets through the body of the sheet-metal plates, leaves them free to expand and contract underneath the cap, which is considered very essential in roofing of the class to which my invention appertains.

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

1. The combination, with the cap, of an anchor presenting two free ends to be secured thereto, one of said ends being riveted to the cap on one side thereof and the other end upon the opposite side, substantially as and for the purpose set forth.

2. A cap and anchor for securing sheet-metal plates to structures, the anchor being constructed of a double thickness of metal, the ends thereof being turned down or outward and riveted to both sides of the metal cap, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

WILLIAM G. HYNDMAN.

Witnesses:
ROBT. J. HYNDMAN,
ALBERT L. WELLMAN.