J. T. HYNDMAN.

Sheet-Metal Roofing.

No. 211,910. Patented Feb. 4, 1879.

Fig. 1

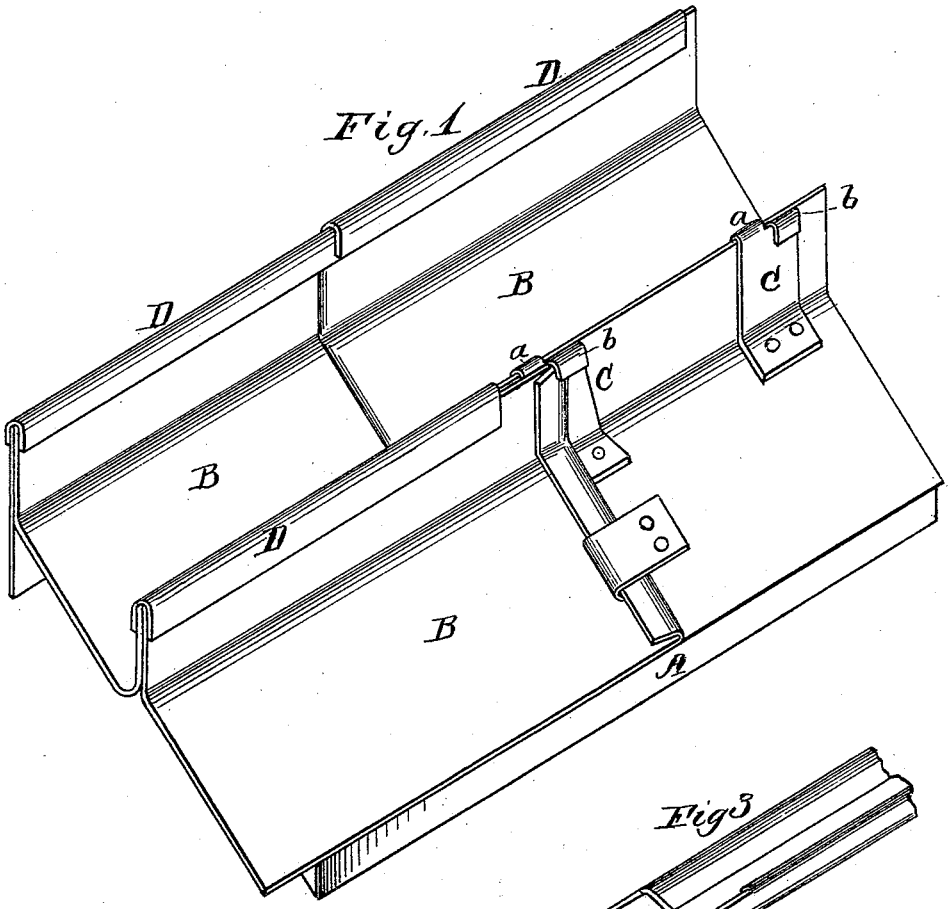


Fig. 3

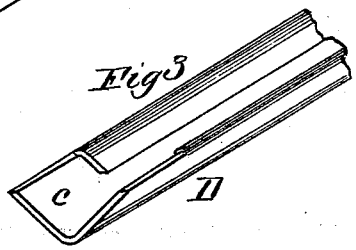
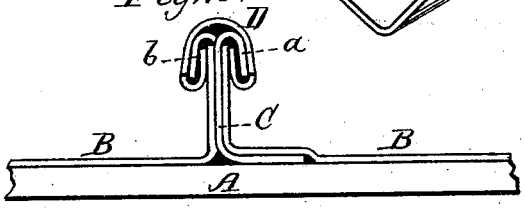


Fig. 4

Fig. 2.



WITNESSES

Nat. E. Hiphant.

Wm. B. Banning.

INVENTOR

John T. Hyndman,

per Chas. H. Fowler,

Attorney.

UNITED STATES PATENT OFFICE.

JOHN T. HYNDMAN, OF CINCINNATI, OHIO.

IMPROVEMENT IN SHEET-METAL ROOFING.

Specification forming part of Letters Patent No. **211,910**, dated February 4, 1879; application filed November 11, 1878.

To all whom it may concern:

Be it known that I, JOHN T. HYNDMAN, of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and valuable Improvement in Sheet-Metal Roofing; and I 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 drawings is a representation of a perspective view of a section of a roof, showing my invention. Fig. 2 is an end view of the same. Fig. 3 is a perspective view of the cap, and Fig. 4 is an end view thereof.

Previous to my invention that class of roofing in which the anchors were divided centrally to form two parts bent in opposite directions over the upturned edges of the sheets, and in which a sheet-metal cap was employed passing over and around and securing the two bent portions of the anchors was liable to many objections, as the form of the cap required a machine to turn it down over and around the anchor, and in addition thereto a skilled workman or mechanic to do the work; besides which, the point at which the ends of the caps meet did not present a perfect water-tight joint. It is therefore the purpose of the present invention to remove, as far as possible, these difficulties by so bending the cap by machinery in the shop as to dispense with machinery upon the roof or other structure, thereby enabling any one, though not a mechanic, to apply it without the use of any special tools or implements; and the peculiar form of the caps admits of their ends, when placed upon the roof, overlapping each other to prevent leaking at the joints, as will be hereinafter described, and pointed out in the claim.

In the accompanying drawings, A represents a section of a roof or other structure, to which are secured the sheet-metal plates B by the anchors C. The lower ends of the anchors C are secured, by nails or other suitable means, to the roof or structure A, and the upper ends thereof are slitted to present two flanges, *a b*, bent in opposite directions around and down parallel, or nearly so, with the vertical part of the anchor, and over and around the contacting edges of the sheets. The flanges *a b* of the anchors C are so bent as to leave sufficient space between them and the sheets to admit the insertion of a cap, D. This cap is bent around in form of an inverted U, and the edges upon each side thereof bent upward within the same to form slots or spaces for the reception of the flanges *a b* of the anchors C; and at each end of the cap are projecting flanges *c*, which overlap the flanges of the adjoining cap, thereby making a very tight and secure joint at that point.

The peculiar construction of the cap D renders it readily and easily secured over the sheets and flanges of the anchors by slipping it on at the end of the sheets, and sliding it along until the flanges of the cap lap over the flange of the adjoining cap, after which the cap can be tightly and securely fastened in place by a hammer or other similar tool.

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

The means herein described for securing sheet-metal plates to structures, consisting of the cap D, bent as shown and described, and having the flanges *c*, and the slitted anchors C, bent over the edges of the plates B, 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.

JOHN T. HYNDMAN.

Witnesses:
R. J. HYNDMAN,
JAMES LOVE.