

(No Model.)

A. C. KANNEBERG.  
SHEET METAL ROOFING.

No. 492,513.

Patented Feb. 28, 1893.

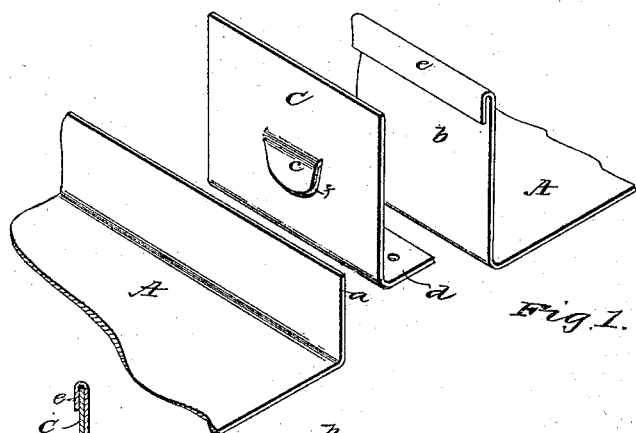


Fig. 1.

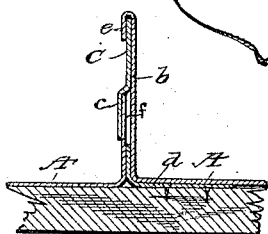


Fig. 2.

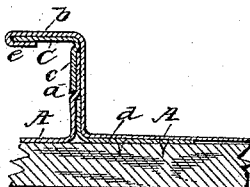


Fig. 3.

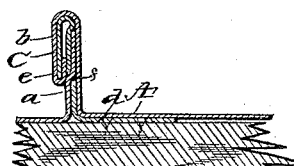


Fig. 4.

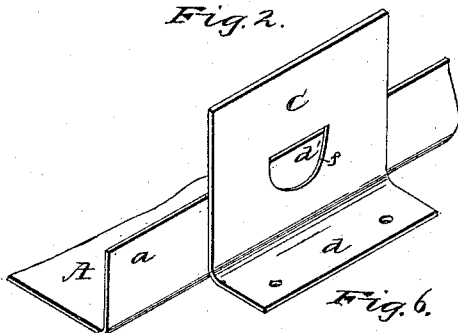


Fig. 6.

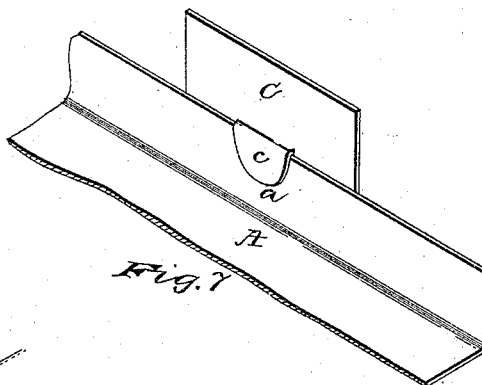


Fig. 7.

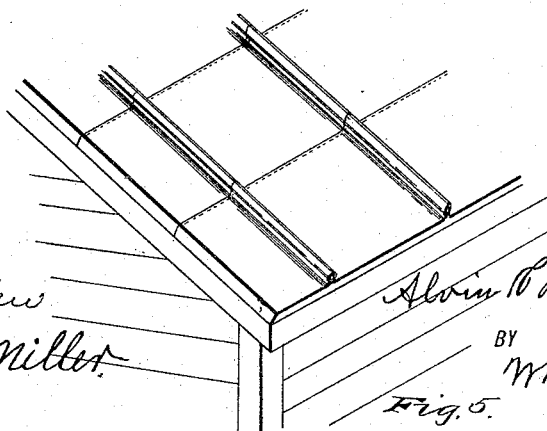


Fig. 5.

WITNESSES:

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# UNITED STATES PATENT OFFICE.

ALVIN C. KANNEBERG, OF CANTON, OHIO.

## SHEET-METAL ROOFING.

SPECIFICATION forming part of Letters Patent No. 492,513, dated February 28, 1893.

Application filed April 7, 1890. Serial No. 346,890. (No model.)

*To all whom it may concern:*

Be it known that I, ALVIN C. KANNEBERG, a citizen of the United States, and a resident of Canton, county of Stark, State of Ohio, have invented a new and useful Improvement in Sheet-Metal Roofing, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification.

My invention relates to improvements in sheet metal roofing and consists in certain features of construction and combination of parts as will be hereinafter described and pointed out in the claims.

Figure 1. of the accompanying drawings is a view in perspective showing portions of two sheets having their edges turned or flanged upwardly together with the anchor. Fig. 2. is a transverse section through the sheets and the central portion of the anchor showing the wide flange hemmed over the top of the anchor and the tongue of the anchor over the narrow flange. Fig. 3. is a similar view showing the wide flange and the anchor bent together. Fig. 4. is a similar view showing the seam completed. Fig. 5. is a perspective of a portion of a roof showing the sheets of metal in position and seamed together. Figs. 6 and 7 are detailed perspective views.

Similar letters of reference indicate corresponding parts in all of the figures of the drawings.

A, represents the sheets of which the roof is formed, which may be of any desired length or width having their edges flanged as shown, usually the one side turned to form the narrow flange *a* about one inch high, the other side turned to form the wide flange *b* about one and a half inches high, the top portion turned over to form the hem *e*.

The anchor C is formed substantially as shown by the drawings, having a horizontal portion to be nailed to the sheeting boards, and a vertical portion to be folded into the seam. The latter portion having provided therein a tongue *c* integral therewith, the free end of which is directed downward as shown in Fig. 1.

In construction the metal sheets A are placed upon the sheeting board as shown in Fig. 5, the anchors C placed in position as shown in Figs. 6 and 7, the tongue *c* over the flange *a*, the horizontal portion nailed to the sheeting, the second sheet is then placed against the anchor as shown in Fig. 2, and the top of the flange turned over the top of the anchor forming the hem *e*, as shown in Figs. 1 and 2, after which the seam is further bent as shown in Fig. 3, after which it is bent down and the seam completed as shown in Fig. 4, the tongue *c* indented into the flange *a* and the latter indented into the perforation *f* formed in the anchor by the cutting out of the free end of the tongue, thereby reducing the thickness of the seam.

It will be seen that by the use of anchors formed as hereinbefore described the labor of bending the tongue or a portion of the anchor over the flange *a* is avoided, the anchor being used in the construction of the roof in the original form in which it leaves the factory.

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

1. The combination of the sheets A having flanges *a* and *b*, the latter provided with the hem *e*, the anchor C, having a tongue *c* formed from and integral at its top portion with said anchor, the downwardly projected free end to embrace the flange *a*, substantially as described and for the purpose set forth.

2. The combination of the sheets A, having flanges *a* and *b*, the anchor C having a tongue formed therefrom and integral therewith at its top, and the flange *b*, and anchor C folded over the flange *a*, and the tongue *c*, indented into the flange *a*, substantially as described and for the purpose set forth.

In testimony whereof I have hereunto set my hand this 2d day of April, A. D. 1890.

ALVIN C. KANNEBERG.

Witnesses:

CHAS. R. MILLER,  
ATLEE POMERENE.