(No Model.)

L. L. SAGENDORPH.

METAL ROOFING.

No. 250,397 Patented Dec. 6, 1881.

Fig. 1.

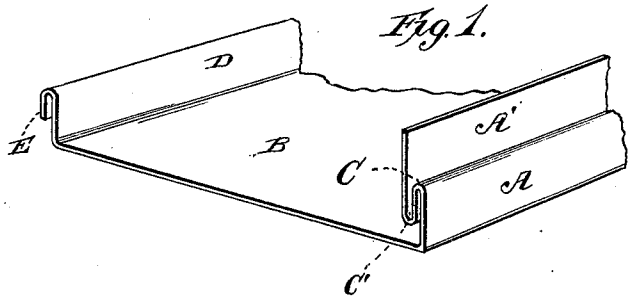


Fig. 2.

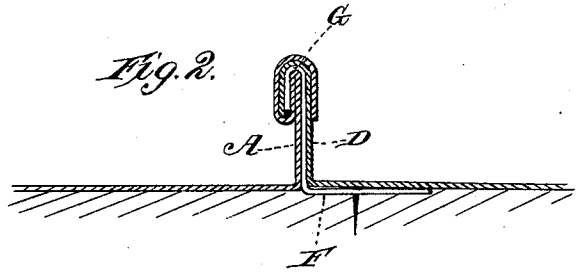


Fig. 3

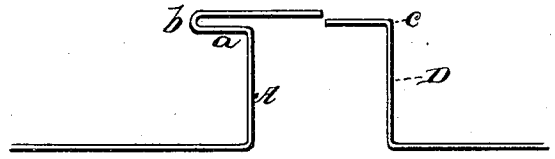
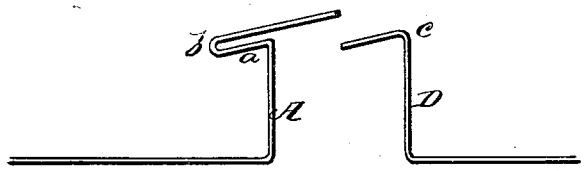


Fig. 4



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UNITED STATES PATENT OFFICE.

L. LEWIS SAGENDORPH, OF STAUNTON, VIRGINIA.

METAL ROOFING.

SPECIFICATION forming part of Letters Patent No. 250,397, dated December 6, 1881.

Application filed April 30, 1881. (No model.)

To all whom it may concern:

Be it known that I, L. LEWIS SAGENDORPH, a citizen of the United States, residing at Staunton, Augusta county, State of Virginia, have invented certain new and useful Improvements in Metal Roofing; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a view, in perspective, of a portion of one of the improved sheets employed by me. Fig. 2 is a sectional view of two of said sheets anchored to the sheathing and having the standing seam completed. Figs. 3 and 4 are modifications of the sheets, showing the flanges at angles varying from those shown in Fig. 1.

This invention has relation to metal roofing; and it consists in the features of construction and combination hereinafter fully described, and particularly pointed out in the claims.

In the standing seams of metal roofs as heretofore formed they have sometimes been made by bending a sheet in such manner near its side edges as to form two vertical flanges, one of which has been somewhat higher than the other, and then bending the higher vertical flange of one sheet down over the shorter flange of an adjoining sheet.

In my invention the wider flange A of the sheet B is provided with a bend, C, formed by bending said flange A near the middle first inward, then downward, then inward and upward, as shown in Fig. 1.

The shorter or narrower flange D is bent outward and downward to form the hook E, which is intended to fit into the trough C′ of the bend C in the flange A of an adjoining sheet, B.

A cleat, F, (shown in Fig. 2,) is employed to anchor the sheets to the sheathing, and has a hook, G, at its upper end, which fits the trough C′ of the flange A, and is placed in position and secured to the sheathing before the hook E. The upper portion, A′, of the flange A is then bent down over the flange D and the seam closed by the mallet, seamer, or the like.

In the modification shown in Fig. 3 the flange A is bent inward at *a*, upward at *b*, and outward over the bend *a*, and the flange D is bent outward at *c*, and a cleat correspondingly formed is used to secure the sheets to the sheathing. The cleat should be bent at right angles, as is the flange D *c*.

The modification shown in Fig. 4 is only a slight variation of that shown in Fig. 3, the portions forming the bends being slightly inclined, as shown.

By this construction I form a strong, durable seam, that will admit of contraction and expansion without breaking, and one which is water-tight without soldering or packing the same, and without the use of rivets or the like.

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

1. In a metal roof, the sheet B, having the flange A A′, with bend C and trough C′ at one side thereof, and the flange D, with hook E at the other side, as shown and described.

2. In a metal roof, the combination, with the flange A A′, having bend C and trough C′, of the flange D, having hook E, and the cleat F, having hook G, substantially as and for the purposes set forth.

In testimony whereof I affix my signature in the presence of two witnesses.

L. LEWIS SAGENDORPH.

Witnesses:
H. CLAY SMITH,
CHAS. L. COOMBS.