(No Model.)

L. L. SAGENDORPH.

METALLIC ROOFING PLATE.

No. 405,122. Patented June 11, 1889.

Fig. 1.

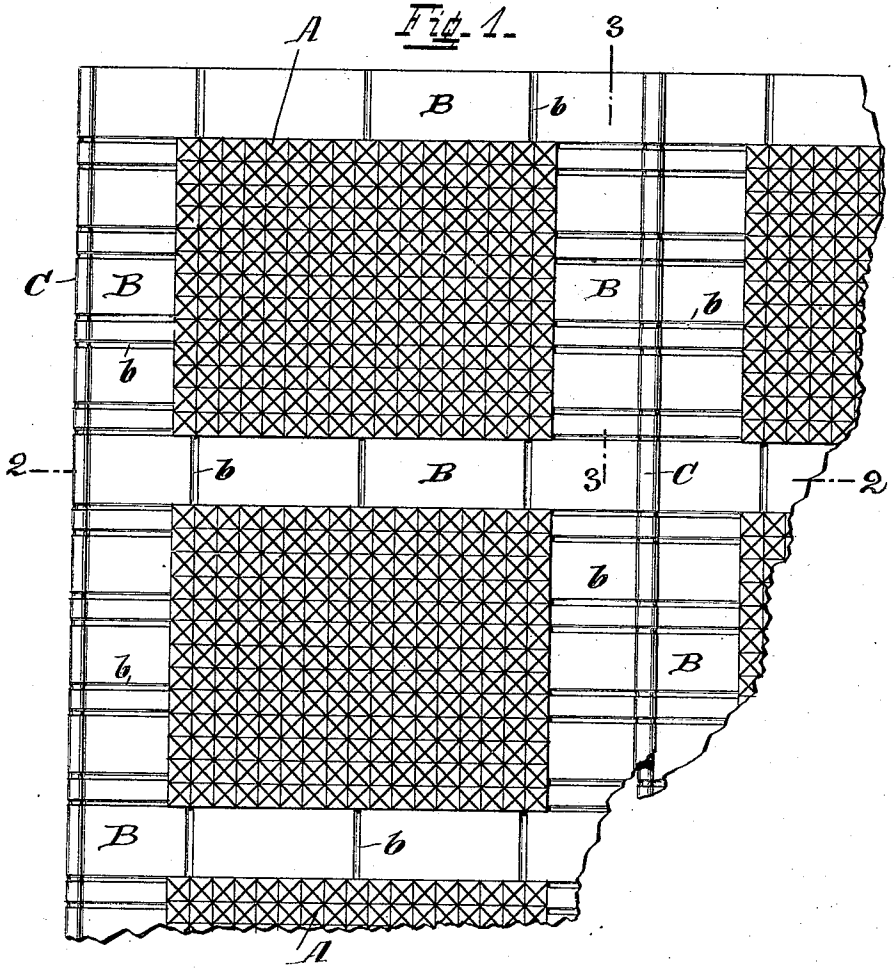


Fig. 2.

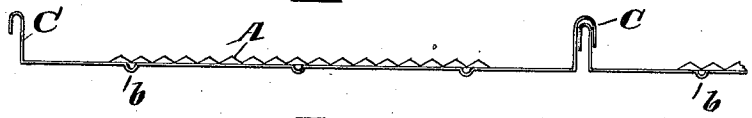
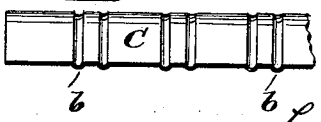


Fig. 3.



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UNITED STATES PATENT OFFICE.

LONGLEY LEWIS SAGENDORPH, OF CINCINNATI, OHIO, ASSIGNOR OF ONE-HALF TO CHARLES N. HARDER, OF PHILMONT, NEW YORK.

METALLIC ROOFING-PLATE.

SPECIFICATION forming part of Letters Patent No. 405,122, dated June 11, 1889.

Application filed March 15, 1889. Serial No. 303,456. (No model.)

To all whom it may concern:

Be it known that I, LONGLEY LEWIS SAGENDORPH, a citizen of the United States, residing at Cincinnati, in the county of Hamilton, State of Ohio, have invented certain Improvements in Metallic Roofing-Plates, of which the following is a specification, reference being had to the accompanying drawings, in which—

Figure 1 is a top view of a portion of two roofing-sheets in position, showing the preferred manner in which the sheets are stamped or pressed. Fig. 2 is a section taken at line 2 2 of Fig. 1. Fig. 3 is a section taken at line 3 3 of Fig. 1.

My invention consists in pressing or stamping a metallic roofing-plate in substantially the form shown.

Each plate is made up of one or more stamped panels, the latter consisting of a central rectangular figure A, made up of embossed figures, preferably pyramidical in configuration, as shown, said rectangular figure being surrounded by a border B, in which are made the beaded grooves *b*. The standing-seam joint or flanges C are formed from the side edges of the borders, as shown, the beaded grooves *b* in said side borders extending up and over said flanges C. The finished plates are secured to the sheeting of the building in a manner similar to what the usual standing-seamed roofing is secured.

The objects sought to be attained in thus stamping a metallic roofing-plate are—

First, to produce a roofing-plate that will not rattle during a high wind or gale, that may be attached to the building by means of a standing seam, which cannot be done in corrugated roofing. A sheet of roofing stamped as shown will not rattle when in place on the roof.

Second, to produce a roofing-plate that will take up the expansion and contraction over the entire sheet and not at the standing seam, as is the case in all plain standing-seamed roofing-plates.

Third, to produce a roofing-plate that will dispense with the use of snow-boards, as all plain metallic roofs in northern latitudes have to be provided with snow-boards to prevent the long-accumulated snow and ice from slipping off the roof in a bulk, which is quite dangerous. The embossed surface of my roofing-plate, in connection with the grooves in the side borders, offers a valuable substitute for the snow-board.

Fourth, to produce a roofing-plate that will permit of a person walking on the roof without endangering his life.

The advantages of my invention have been partially set forth in the objects sought to be attained.

Another advantage consists in having the beaded grooves *b* in the side borders to extend up and over the standing seam in order to stiffen the latter.

Any contraction of the metal by reason of stamping the central rectangular figure is taken up by the grooves made in the border surrounding said figure.

What I claim as new and of my invention, and desire to secure by Letters Patent, is—

1. A metallic roofing-plate having a rectangularly-embossed figure at center and surrounded by a border having beaded grooves therein, substantially as set forth.

2. A metallic roofing-plate having the central pyramidically-embossed surface A, surrounded by a border B, having the beaded grooves *b* therein, and side flanges C, the grooves *b* from said side borders extending up and over said flanges, substantially as set forth.

LONGLEY LEWIS SAGENDORPH.

Witnesses:
GEO. M. VENTY,
WM. NICKMEIER.