

No. 615,449.

Patented Dec. 6, 1898.

T. F. HAGERTY.  
METALLIC SHEATHING.

(Application filed Jan. 25, 1898.)

(No Model.)

Fig. 1.

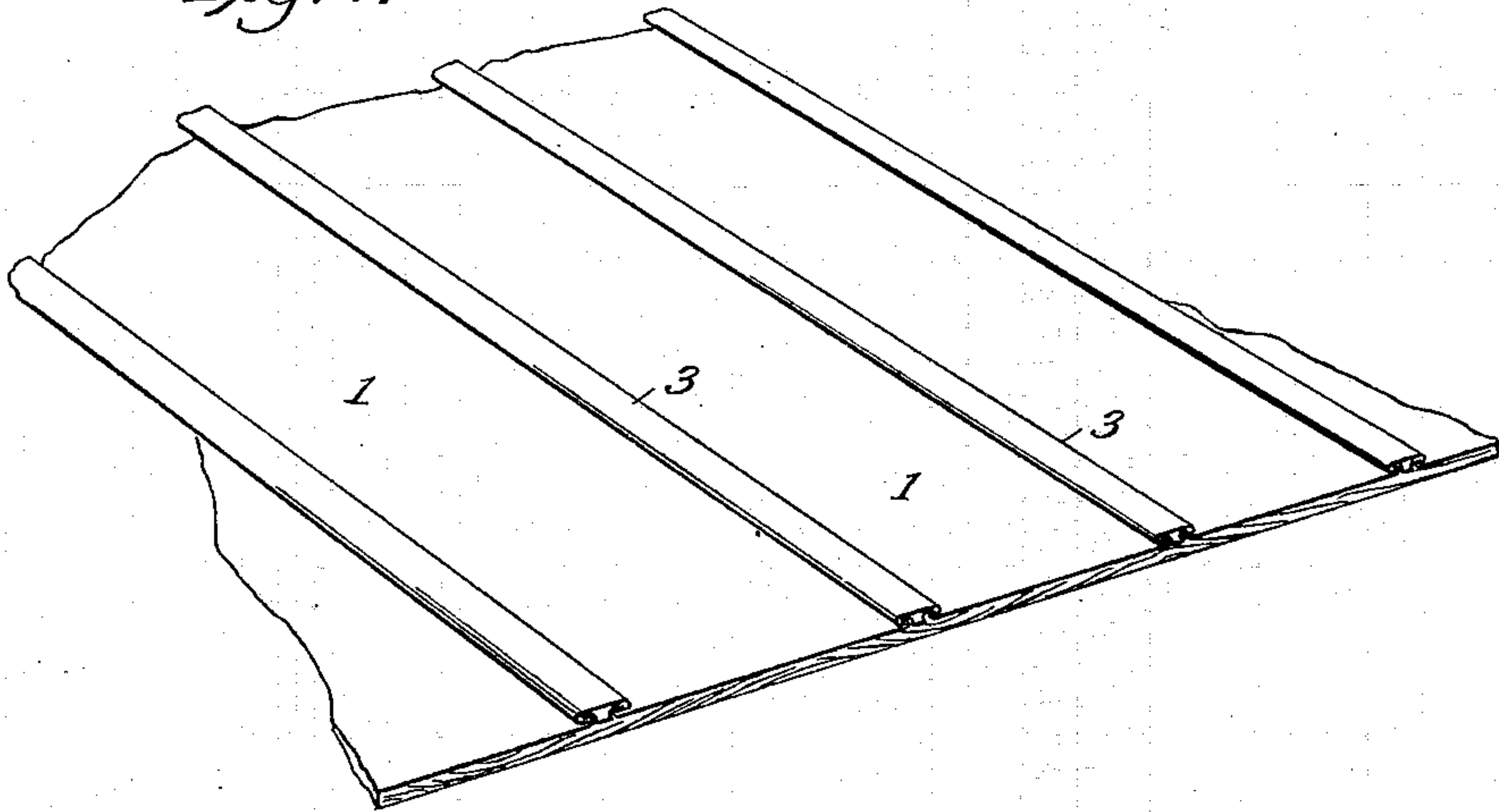


Fig. 2.

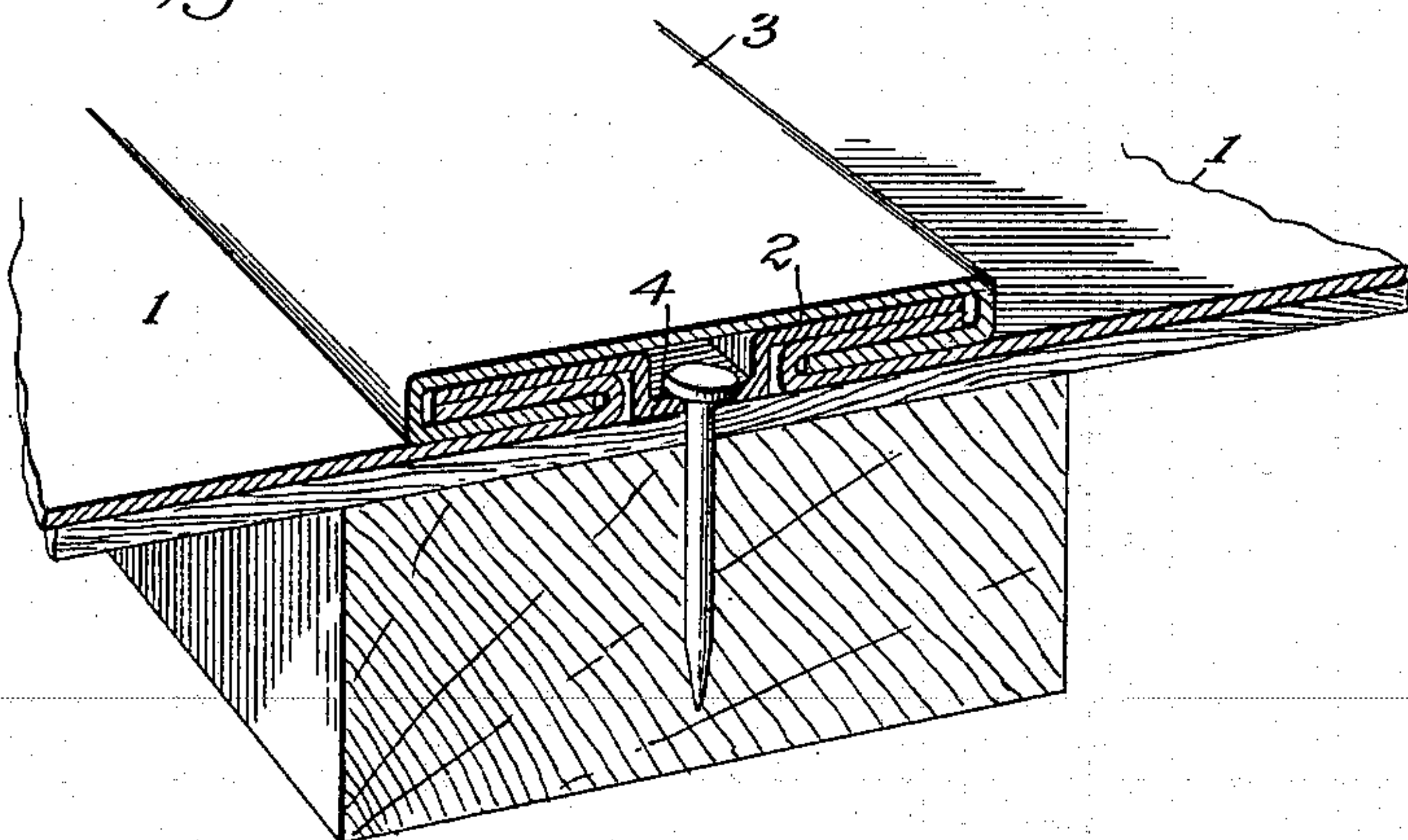
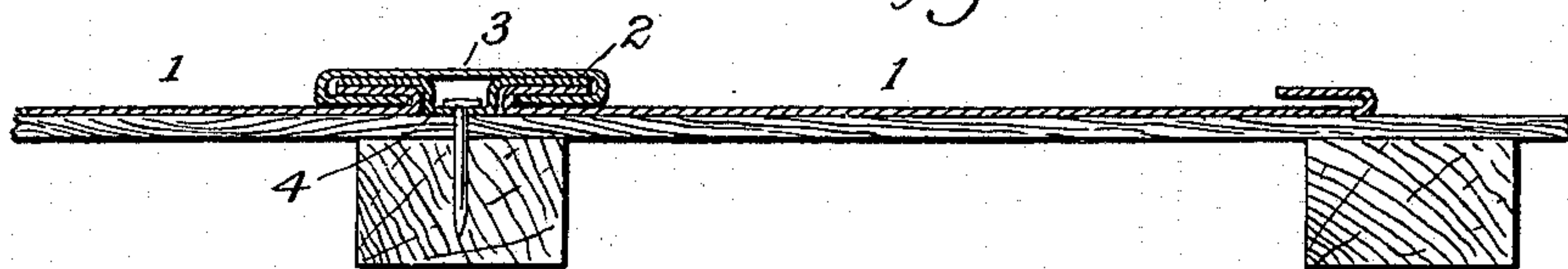


Fig. 3.



Witnesses:

James F. Duhamel  
*J. F. Duhamel*

Inventor,  
THOMAS F. HAGERTY,

by *Wm. Morris*  
his attorney.



# UNITED STATES PATENT OFFICE.

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## METALLIC SHEATHING.

SPECIFICATION forming part of Letters Patent No. 615,449, dated December 6, 1898.

Application filed January 25, 1898. Serial No. 667,850. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS F. HAGERTY, a citizen of the United States of America, and a resident of San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Metallic Sheathing, of which the following is a specification.

This invention relates to an improved metallic sheathing for roofs of buildings, car-tops, walls of buildings and cisterns, &c., as well as in the construction of the joint which connects the metallic sheets together; and my invention consists in the novel manner of first attaching a grooved strip of sheet metal to the roof and abutting the two folded edges of the two connecting sheets into the recess provided in either side of the grooved strip and next covering the strip and the folded edges of the sheets by means of a folded protector-strip whose edges lap under and around the folded edges of the sheets and the two edges of the attaching-strip and swaging the whole down on the roof to make a water-tight joint.

To attain the desired objects, the invention consists of a metallic sheathing embodying novel features of construction and combination of parts, substantially as disclosed herein.

In the drawings, Figure 1 is a perspective view of a portion of a roof covered with my sheathing. Fig. 2 is a perspective view of my sheathing, showing the two sheets with the attaching-strip nailed down between them and the protecting-strip covering the joint; and Fig. 3 is an end sectional view of the sheets, the grooved strip, and the protecting strip or cap, showing the method of attaching them to the roof.

The numeral 1 designates the folded sheets, 2 the fastening or attaching strip, and 3 the protecting cap or strip.

In practice I make the attaching-strip 2 of the same metal as the covering-sheets 1, and I provide a groove 4 in its center of sufficient depth to admit the two folded edges of the covering-sheets passing into the space left on either side, or, say, of two thicknesses of metal. This groove has its sides nearly vertical, and they are true with its body part, so that when

the sheets are butted up against it they will come in perfect alinement with each other.

It will be noted that the formation of the channel in my strip enables the strip to be nailed to the roof before the covering-sheets on one or both sides are placed in position, as the vertical elevation of the flanges provided for by the channel leaves a space or recess under said flanges for the lateral insertion of the covering-sheets.

To lay this covering on a roof, I first nail the side of a covering-sheet whose edge is not folded to the gable end of the roof, where it is lapped under, and bring the other or folded edge up against the recess in the attaching-strip. I next nail down the strip temporarily and next lay another sheet against the other recess and again nail down another strip, and so on until the roof is laid. After a careful examination to see that the sheets and strips are in proper place and that no buckle or warping has occurred the operator hammers down the nails with a nail set-punch as far as they will go. By this operation it will be seen that neither of the edges of the sheets or attaching-strip are disturbed, as no buckling can occur, as would be the case if a double covering-strip were used, one to nail through and a larger one to cover the joint, as heretofore practiced. When the joints are thus fastened, I next cover them by means of a folded protector-strip 3, which I shove up from the end, its folded flanges passing around and under the edges of the sheets and the edges of the attaching-strip, and the next operation is to swage down the entire seam until a complete water-tight joint is thus obtained. By the construction of this simple and inexpensive joint I am enabled to lay a sheet-metal roofing very rapidly, and as it requires no expensive machinery to fold the groove in the attaching-strip 2, as in the case of lapped-over joints, and requires less metal my roofing will be cheaper and better than any heretofore constructed.

I claim—

A metallic covering for roofs, comprising a strip having a longitudinal middle channel the bottom of which rests upon the roof and



through which the fastening devices are driven into the roof and flat side flanges projecting parallel with the roof but sufficiently above it to receive below the folded edges of the main covering-sheets by lateral insertion, 5 in combination with said covering-sheets and with a protecting-cap having its edges folded in under the flanges of said strip and between

the folded edges and the main body of the covering-sheets. 10

Signed by me, at Washington, District of Columbia, this 24th day of January, 1898.

THOMAS F. HAGERTY.

Witnesses:

CLARENCE E. HOOPER,  
WM. N. MOORE.