Sept. 24, 1946. V. A. CARDARELLI, SR 2,408,292

ROOFING

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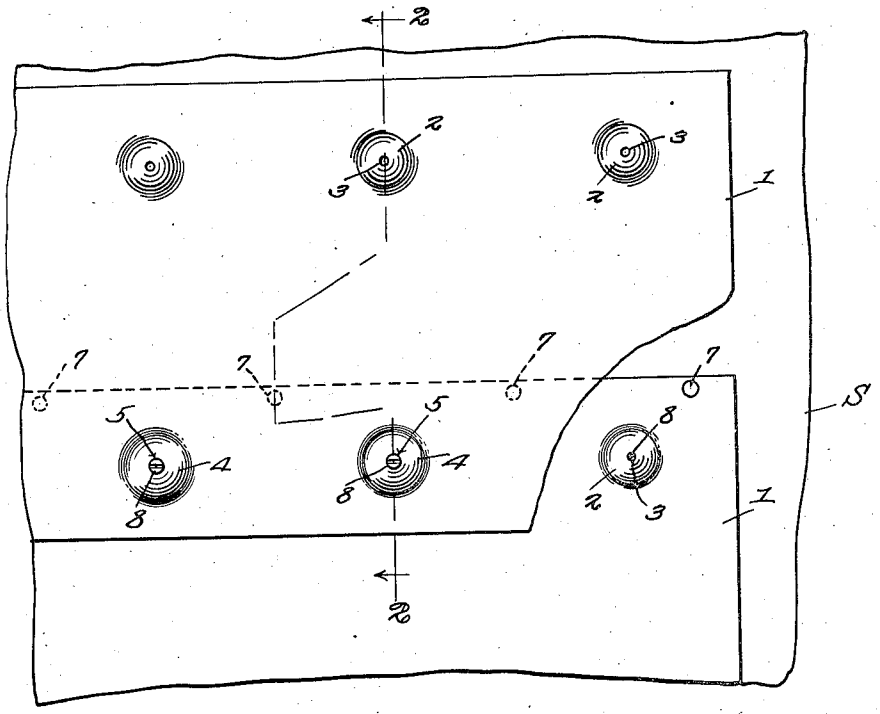


Fig. 1.

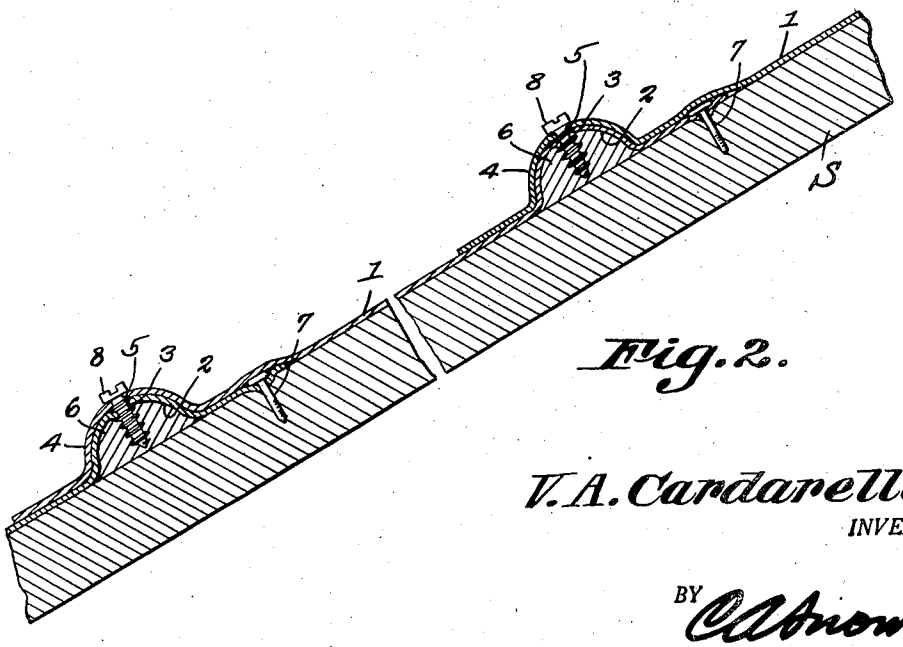


Fig. 2.

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ROOFING

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2 Claims. (Cl. 108—13)

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This invention relates to roofing, one of the objects being to provide roofing made up of metal plates adapted to be held in place and to each other in a new and novel manner and with no danger of leakage.

A further object is to provide roofing which is simple in construction, can be applied readily, and which is especially suitable for use on inclined surfaces.

Another object is to provide the plates of the roofing with interfitting means whereby these plates can be quickly and proper lined up while being assembled.

A still further object is to provide a means by which the plates can be securely fastened together independently of the structure on which they are mounted.

With the foregoing and other objects in view which will appear as the description proceeds, the invention consists of certain novel details of construction and combinations of parts hereinafter more fully described and pointed out in the claims, it being understood that changes may be made in the construction and arrangement of parts without departing from the spirit of the invention as claimed.

In the accompanying drawing, the preferred form of the invention has been shown.

In said drawing:

Figure 1 is a top plan view of portions of two lapping plates used in the construction of the roofing constituting the present invention.

Figure 2 is a section on line 2—2, Figure 1, one complete roofing plate and portions of two adjoining plates being shown.

Referring to the figures by characters of reference, 1 designates a flat metal sheet of any suitable proportion formed preferably of metal. Adjacent to its upper edge this sheet is provided with spaced rounded nodes 2 pressed upwardly therefrom and provided with small central openings 3.

Adjacent to its opposite edge, the plate is provided with another series of upwardly extended rounded nodes 4, these latter being also provided with central openings 5. The two sets of nodes are so positioned that when two or more plates are assembled, the nodes 2 on the lower plate 1 can be seated within the nodes 4 on the overlapping plate. Thus these nodes will cooperate to properly align the plates while they are being assembled on a roof structure S.

In practice, the under sides of the nodes 2 are filled with a suitable cement indicated at 6, after

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which the plates 1 are assembled in overlapping relation with the nodes 2 extended into the nodes 4. Before these different plates are applied, however, the upper edges of the plates are fastened to the roof structure by means of nails 7 in the usual manner. After the lower edges of the plates have been placed over the upper edge portions of the next adjoining plates thereunder, suitable fastening means, such as screws 8 are extended through the openings 5 and openings 3 into the cement 6. It is intended to have the wall of each opening 3 engage the threaded portion of the screw in the opening so that said walls of the screw thus will cooperate to hold the interfitting nodes together firmly.

It will be apparent that when the parts are thus assembled the roof will be made up of members or plates joined together where the nodes interfit while the upper edge portions only of the plates are attached to the roof structure. It will be noted, also, that screws 8 do not enter the roof structure S but terminate above the surface thereof. They are employed solely for holding the lower edge of one plate to the upper edge portion of the plate thereunder. Accordingly, if desired, roofing paper could be placed beneath the plates 1 and would not be perforated by the screws.

What is claimed is:

1. A roofing plate having spaced rounded fastener-receiving nodes extended upwardly from points adjacent to one edge thereof, a solid fastener-receiving material filling said nodes, and spaced rounded fastener-receiving nodes extended upwardly from the plate at points adjacent to the opposite edge thereof, the last-named nodes being proportioned and positioned to receive nodes corresponding with the first-named nodes when two plates of like construction are assembled.

2. The combination with a supporting structure, of lapping upper and lower plates each secured at its upper edge to the supporting structure, upwardly extended hollow nodes on the lapped portion of the lower plate, upwardly extended hollow nodes on the overlying portion of the upper plate providing seats for the first-named nodes, a filling within each of the lapped nodes, and fastening means extending into the nodes and filling material constituting means for drawing the nodes together, said filling material constituting means for housing one end of the fastening means therein.

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