METALLIC ROOF-SHINGLE.

To all whom it may concern:

Be it known that I, PETER H. BENNETT, a citizen of the United States, residing at Trenton, in the county of Mercer and State of New Jersey, have invented a certain new and useful Metallic Roof-Shingle, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention relates to a metallic roofing-shingle.

It consists in providing the top or upper edge and one side each with a U-shaped bend having a return flange or portion extending beyond the U-shaped portion and provided with an upturned outer edge, the specific construction by which the invention is carried into effect being set forth in the following description and claim.

In the accompanying drawings, Figure 1 is a perspective view showing several of the metallic plates or shingles as the same are united for use. Fig. 2 is a similar view of one of the roofing plates or shingles looking from the opposite corner from that shown in Fig. 1. Fig. 3 represents a vertical section on the line 3-3 of Fig. 1, and Fig. 4 represents a transverse section on the line 4-4 of Fig. 1. Similar reference-numerals indicate corresponding parts wherever used in the several figures.

1 indicates the improved roofing plate or shingle. It is bent upward and back near its upper edge into U shape, as indicated at 2, and at 3 it is bent upward and back over the U-shaped portion 2, extending beyond the latter and forming a terminal flange 4, which at its extreme upper edge is upturned, as indicated at 5, for a purpose which will appear. One side of the plate or shingle is similarly bent except that the metal is bent underneath the plate and in close proximity thereto to form a socket for the reception of the opposing edge of the adjacent shingle and is again bent under and extends beyond the U-shaped portion to form a nailing-flange 6, the outer edge of which is upturned, as indicated at 7, so that said edge shall rest in contact with the overlying adjacent plate or shingle. The lower edge of the plate is bent under and back in U shape, as indicated at 8, giving it a hook shape, forming a tongue 9, adapted to enter the groove formed by the U-shaped bend 3 in the upper edge of the adjoining lower plate. The opposite side of the plate or shingle is provided with an extension or tongue 10, adapted to enter the U-shaped groove or socket 11, formed intermediate the nailing-flange 6 and the rebent portion of the plate 1, overlying said flange.

By the construction described it will be seen that each plate is provided with a double-locking-joint, one at its upper edge and one at one side thereof, each plate being provided upon its lower edge with a hook-shaped tongue for engaging the groove in the upper edge of the adjoining lower plate or plates and at its opposite side with a straightaway tongue 10 for engaging the U-shaped opening in the side of the plate or shingle adjacent thereto. Preferably the angles of the straightaway tongues 10 are cut away, as indicated at 12, facilitating its insertion into the U-shaped socket formed in the adjacent edge of the adjoining plate or shingle. The upturned edges of the flanges 4 and 6 are designed to press snugly in contact with the under faces of the overlying plates and serve to prevent the passage of any water which may by any possibility pass the interlocking joints at the top and sides of the shingles, this construction serving also to form gutters for the retention or escape of water escaping the interlocking joints. Preferably the plates or shingles of one row are arranged to break joint with those of the adjoining lower row, as indicated in Fig. 1. By this construction of the shingles they are adapted to any form of roof, either steep-pitched or flat, and whether for roofing houses or awnings or other purposes, and serve when secured in place by means of the nailing-flanges to effectively exclude moisture.

Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is:

A metallic roofing-shingle provided at its top or upper edge with an upturned return portion terminating in a rebent flange, the upper edge of which is upturned, at one side with an underturned portion terminating in a rebent nailing-flange extending beyond the underturned portion and forming in connection therewith a U-shaped bend, the lower portion of each shingle having a hook-shaped tongue adapted to engage the U-shaped bend
in the upper portion of the adjacent lower shingle, and at its opposite side with a straightaway tongue portion adapted to enter the U-shaped socket between the nailing-flange and rebent portion of the adjacent shingle, all substantially as and for the purpose described.

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

PETER H. BENNETT.

Witnesses:
JOHN P. SPRINGARD;
CHARLES H. KNOX.