

E. W. THOMPSON.
 IRON OR NOSING FOR CONCRETE WORK.
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1,011,274.

Patented Dec. 12, 1911.

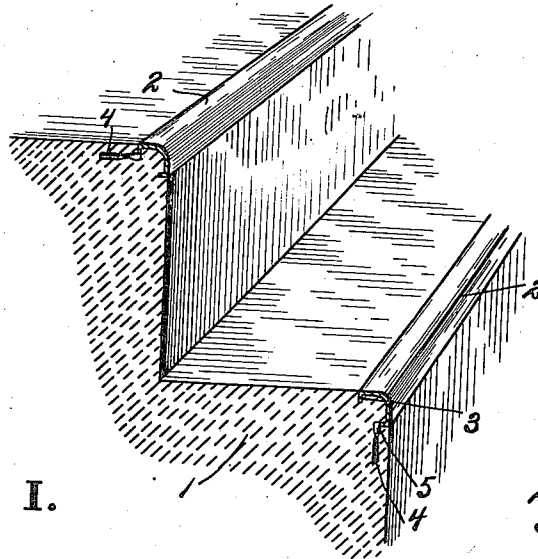


Fig. I.

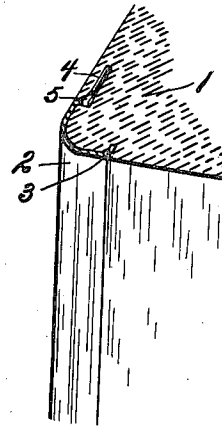


Fig. III.

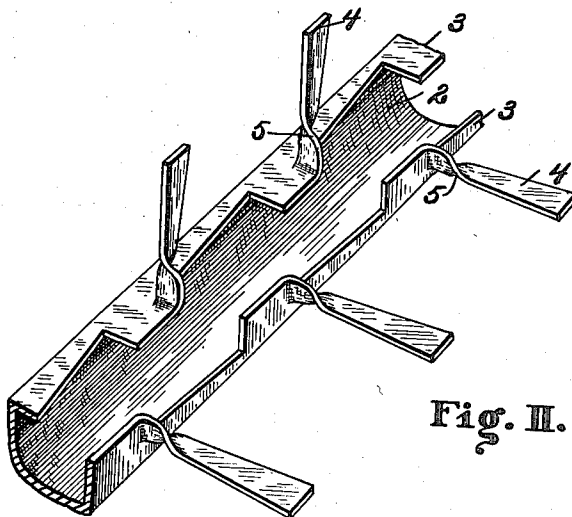


Fig. II.

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UNITED STATES PATENT OFFICE.

EVERT W. THOMPSON, OF NILES, MICHIGAN.

IRON OR NOSING FOR CONCRETE WORK.

1,011,274.

Specification of Letters Patent.

Patented Dec. 12, 1911.

Application filed November 14, 1910. Serial No. 592,320.

To all whom it may concern:

Be it known that I, EVERT W. THOMPSON, a citizen of the United States, residing at Niles, Michigan, have invented certain new and useful Improvements in Irons or Nosings for Concrete Work, of which the following is a specification.

This invention relates to improvements in irons or nosings for concrete stairs, columns, etc.

My improved corner iron is especially designed by me for use as a corner iron or nosing for concrete stairs, curbs, columns, piers, and other concrete structural work.

The main objects of my invention are to provide an improved corner iron or nosing for concrete work, such as stairs, curbs, columns, piers and various other concrete structures, which is very secure and one which serves, in a measure, as a reinforcing element or member, and is economical to produce and easily placed.

Further objects, and objects relating to structural details, will definitely appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification.

The invention is clearly defined and pointed out in the claims.

A structure, which is a preferred embodiment of my invention, is clearly illustrated in the accompanying drawing, forming a part of this specification, in which:

Figure 1 is a detail perspective view of a stair embodying the features of my invention. Fig. 2 is an inside perspective view of my improved corner iron or nosing. Fig. 3 is a detail of a column embodying my improved corner iron.

In the drawing, similar reference numerals refer to similar parts throughout the several views.

Referring to the drawing, 1 represents the body of a concrete stair structure, in connection with which my improved corner or nosing is shown.

My improved corner iron 2 is angled in cross section, the angle being rounded, as shown. On each edge is an inturned flange 3, the flanges being disposed substantially at right angles to each other, as is shown. On these flanges are laterally-projecting arms 4, the arms being struck outwardly from the edges of the flanges. These arms are given a quarter twist at 5, adjacent to the flanges,

so that they lie in planes substantially parallel with the sides or the surfaces of the concrete body in which they are embedded. The corner iron is preferably embedded in the concrete so that its outer surface is substantially flush with the surfaces of the concrete body. The concrete material filling the corner iron and embedding the flanges thereof and the arms on the flanges, the arms are very firmly attached and do not tend to cause the concrete to split. They are, in fact, so securely attached as to serve as a reinforcing element.

In Fig. 3 I show my improved corner iron applied to a column.

My improved corner iron or nosing is very simple in structure and economical to produce, both in the matter of the amount of material and labor, and, further, it is easily applied during the process of construction. The body of the corner iron or nosing can be curved, as indicated, or provided with a sharp angle, as may be desired.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. The combination with a concrete body, of a corner iron or nosing piece having inturned flanges at its edges disposed in planes substantially at right angles to each other, said flanges having laterally-projecting, dove-tailed arms struck out from their edges, the arms of the two flanges being disposed in a zigzag relation, and having quarter twists therein so that they lie in planes substantially parallel with the surfaces of the concrete body in which the iron is embedded so that its outer surface is substantially flush with the surfaces of said body.

2. The combination with a concrete body, of a corner iron or nosing piece, having inturned flanges at its edges disposed in planes substantially at right angles to each other and with the surfaces of the body in which they are embedded, said flanges having laterally-projecting arms struck out from their edges, the arms having quarter twists therein so that they lie in planes substantially at right angles to each other, and substantially parallel with the surfaces of the concrete body in which the iron is embedded so that its outer surface is substantially flush with the surface of said body.

3. As an article of manufacture, a corner iron or nosing piece having inturned flanges at its edges disposed in planes substantially

at right angles to each other and having laterally-projecting dove-tailed shaped arms struck longitudinally from their edges, said arms having twists therein, the arms of the two flanges being disposed in a zigzag relation.

4. The combination with a concrete body, of a corner or nosing piece having inturned flanges embedded in said body, said flanges having outwardly-projecting arms on their edges, the arms being disposed substantially at right angles to the flanges and being struck longitudinally from the edges of the flanges and having twists therein, for the purpose specified.

5. As an article of manufacture, a corner iron or nosing piece having inturned narrow flanges at its edges, said flanges having lat-

erally-projecting arms struck longitudinally from their edges, the length of the arms being materially greater than the width of said flanges.

6. As an article of manufacture, a corner iron or nosing piece, having inturned narrow flanges at its edges, said flanges having laterally projecting dove-tailed shaped arms struck longitudinally from their edges, said arms having twists therein.

In witness whereof, I have hereunto set my hand and seal in the presence of two witnesses.

EVERT W. THOMPSON. [L. s.]

Witnesses:

WILLIAM DALY,
WM. H. MCCLENAHEN.