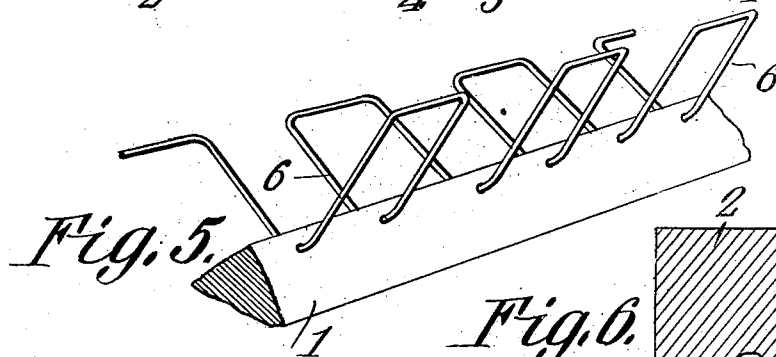
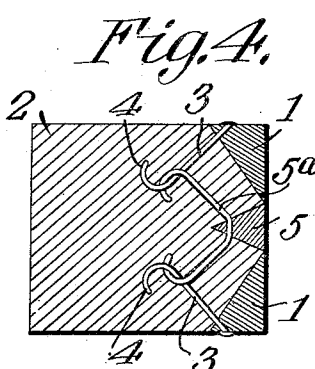
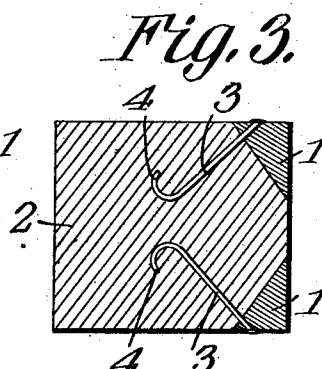
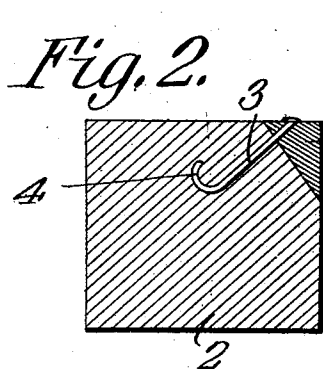
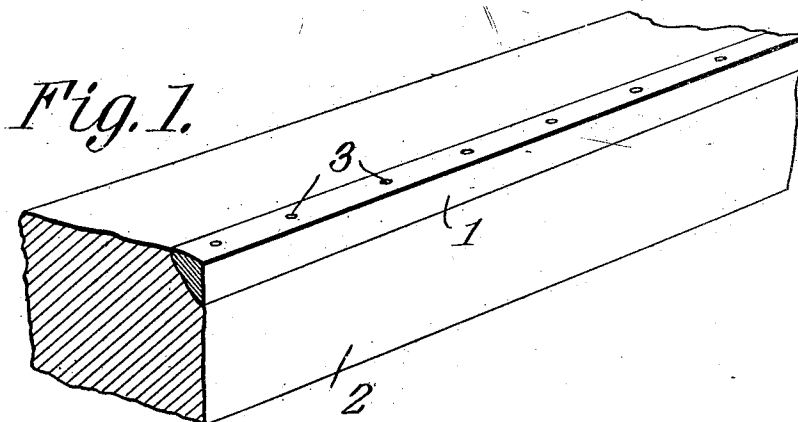


No. 857,775.

PATENTED JUNE 25, 1907.

C. P. WALTER.
REINFORCED CONCRETE CONSTRUCTION.

APPLICATION FILED OCT. 23, 1906.



WITNESSES:

E. J. Stuart
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UNITED STATES PATENT OFFICE.

CHARLES P. WALTER, OF HARRISBURG, PENNSYLVANIA.

REINFORCED CONCRETE CONSTRUCTION.

No. 857,775.

Specification of Letters Patent.

Patented June 25, 1907.

Application filed October 23, 1906. Serial No. 340,240.

To all whom it may concern:

Be it known that I, CHARLES P. WALTER, a citizen of the United States; residing at Harrisburg, in the county of Dauphin and State of Pennsylvania, have invented a new and useful Reinforced Concrete Construction, of which the following is a specification.

This invention relates to reinforced concrete structures such as street curbs and the like and its object is to provide one or more reinforces constituting a fixed part of the structure and which are so shaped as to resist the effects of climatic changes and reduce them to the minimum.

A still further object is to provide reinforcing devices located at points within the structure where the greatest wear occurs, said devices being fixedly secured so as to prevent their separation from the structures.

With these and other objects in view the invention consists of certain novel features of construction and combinations of parts which will be hereinafter more fully described and pointed out in the claims.

In the accompanying drawings is shown the preferred form of the invention.

In said drawings: Figure 1 is a perspective of a curb embodying the present improvements; Fig. 2 is a vertical transverse section therethrough; Fig. 3 is a vertical transverse section through a modified construction; Fig. 4 is a vertical transverse section through another modification; Fig. 5 is a detail view of a reinforcing strip and showing a modified form of anchoring device; and Fig. 6 is a view similar to Fig. 4 and showing a modified form of anchor.

Referring to the figures by characters of reference, 1 is a solid metallic strip triangular in cross section and which is fitted along one edge of a cement body 2, said strip being held in position by anchors in the form of wires 3 riveted or otherwise secured within the strip 1 and having their embedded ends hooked or curled as shown at 4. It will be noted that one of the outer faces of the strip 1 is smaller than the other outer face. This is designed to meet various conditions in the manufacture of reinforced concrete structures, it being the intention to use strips of the same proportions in various forms of structures of this character. Where the reinforcing strip is used with a concrete curb it is placed at the junction of the two exposed faces of the curb so that wheels, etc., will contact solely with the metallic reinforce.

Instead of using a single strip for reinforcing purposes as shown in Figs. 1 and 2, two strips may be employed as shown in Fig. 3, one strip being disposed along each edge of the front face of the curb. Each strip of course has separate anchoring means. As an additional means of reinforcing the curb a third strip may be interposed between the edge strips as indicated at 5 in Fig. 4, in which event bowed anchoring wires 5^a are threaded through the inner portion of the strip 5 and placed in engagement with the anchors 3 prior to molding the body 2 of the curb. It will of course be understood that other forms of anchors may be employed, such as a continuous wire 6 threaded through the reinforcing strip, as shown in Fig. 5, so as to form anchoring loops.

Still another form of anchoring device is shown in Fig. 6 wherein a substantially V-shaped anchor 7 having hooked ends 8 is shown embedded within the body 2 and held upon the strip 1 by means of a nail 9 which is inserted through an opening in said strip, its head engaging the apex of the anchor. The body of the structure will of course hold the parts assembled.

Considerable importance is attached to the fact that the reinforcing strip is triangular in cross section and solid as it has been found by actual tests that curved or angular reinforces will not resist the action of heat and cold sufficiently to render them serviceable.

The preferred form of the invention has been set forth in the foregoing description but I do not limit myself thereto as I am aware that modifications may be made therein without departing from the spirit or sacrificing the advantages thereof, and I therefore reserve the right to make such changes as fairly fall within the scope of the claims.

What is claimed:

1. A structure comprising a concrete body, a combined wear and reinforcing strip embedded in one face of said body, said strip having an exposed face and being slotted and triangular in cross section, there being a plurality of apertures within said strip, and anchoring devices engaging the apertured portion of the strip and having bent ends embedded within the body.

2. A structure comprising a concrete body, a combined wear and reinforcing strip embedded in one face of said body, said strip

being solid and triangular in cross section and having a plurality of apertures therein, and anchoring means detachably engaging the apertured portion of the strip and embedded and concealed within the body.

3. A structure comprising a concrete body, a reinforcing strip embedded therein and having an exposed face, said strip being provided with apertures, an anchoring device upon the apertured portion of the strip and comprising integral members disposed at an angle to each other and having bent ends, said anchoring members being embedded within the body.

4. A structure comprising a concrete body, a plurality of separate reinforcing strips embedded therein, each strip having an exposed face, and separate interlocking anchoring

means upon the respective strips and embedded within the body.

5. A structure comprising a concrete body, a plurality of separate reinforcing strips embedded therein, each strip having an exposed face and provided with a plurality of apertures, separate anchoring means upon each of the strips and embedded within the body, the anchoring means of the respective strips interlocking within the body.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

CHARLES P. WALTER.

Witnesses:

E. HUME TALBERT,
HERBERT D. LAWSON.