No. 810,050. PATENTED JAN. 16, 1906.

G. F. GREENE.

CONCRETE OR CEMENT POST OR ANALOGOUS STRUCTURE.

APPLICATION FILED MAR. 16, 1905.

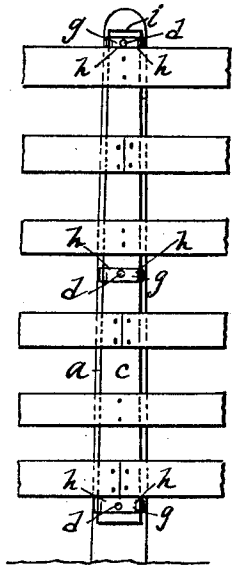

Fig. 1.

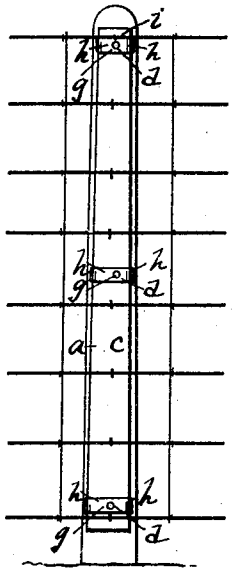

Fig. 2.

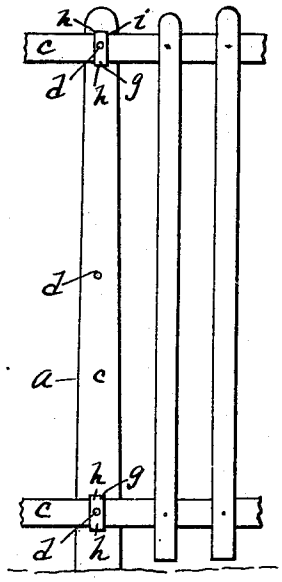

Fig. 3.

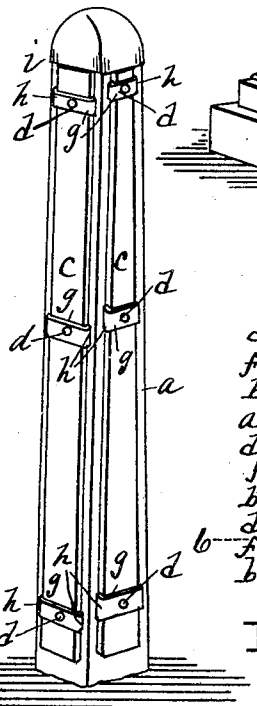

Fig. 4.

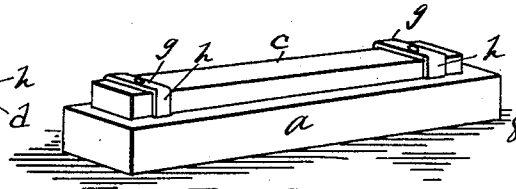

Fig. 9.

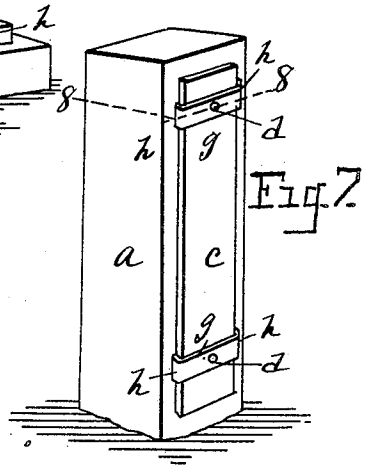

Fig. 7.

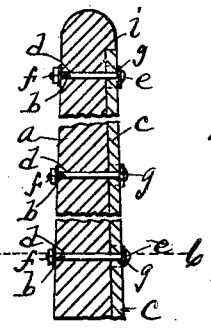

Fig. 5.

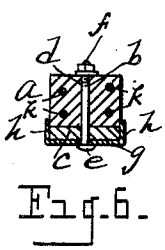

Fig. 6.

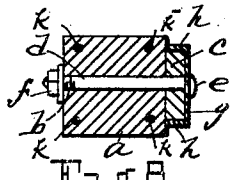

Fig. 8.

Witnesses:
O. B. Baenziger.
M. L. Allen.

Inventor
George F. Greene
By his Attorney
Newell S. Wright.

UNITED STATES PATENT OFFICE.

GEORGE F. GREENE, OF DETROIT, MICHIGAN.

CONCRETE OR CEMENT POST OR ANALOGOUS STRUCTURE.

No. 810,050. Specification of Letters Patent. Patented Jan. 16, 1906.

Application filed March 15, 1905. Serial No. 250,194.

To all whom it may concern:

Be it known that I, GEORGE F. GREENE, a citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful Improvement in Concrete or Cement Posts or Analogous Structures, of which the following is a specification, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to a concrete or cement structure provided with a nailing-strip, the same being more especially designed for a fence-post, a railway-tie, a house-block, and for similar uses.

My invention consists of the structure hereinafter described and claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a view in side elevation of a fence-post embodying my invention, showing its adaptation to one style of fence. Fig. 2 is a similar view showing the adaptation of the post to a wire fence. Fig. 3 is a similar view showing the adaptation of the structure for a picket fence. Fig. 4 shows in perspective a corner fence-post. Fig. 5 is a view in vertical section. Fig. 6 is a view in cross-section, showing a modification. Fig. 7 is a view in perspective of a house-block. Fig. 8 is a section on the line 8 8, Fig. 7. Fig. 9 is a view in perspective of a railway-tie embodying my invention.

The aim of my invention is to provide a structure of this class wherein the nailing-strip may readily be applied to a cement or concrete body and be securely held in position, the nailing-strip being readily removable and renewable should occasion require, doing away with the necessity of discarding the cement or concrete body when the nailing-strip gives out, as in other structures of this class heretofore employed.

In carrying out my invention a concrete or cement body *a* is formed, the same being molded of desired shape and size in a well-known manner and for the particular purpose intended. The body of the cement or concrete structure may be formed in any well-known or desired manner, except as hereinafter described, the same being preferably formed in molding with suitable bolt-orifices therethrough, as indicated at *b*. To the body of the structure so formed I secure one or more nailing-strips, (indicated at *c*,) said nailing-strips being held in place by bolts *d* passed through the body of the structure and through the nailing-strips, as shown, the bolts being preferably formed with a head *e* at one end thereof and with a nut *f* at the opposite end thereof. Over the nailing-strip I locate a clamping device, (indicated at *g*,) said clamping device being formed of metal—as of sheet metal, for example—and provided with flanges at its extremities, as indicated at *h*, to project over the sides of the nailing-strip, the nailing-strip being clamped within the body and flanges of said device, whereby the nailing-strip will be effectually prevented from splitting. The clamping device is held in place by the corresponding bolt passed therethrough.

Where the nailing-strips are desired to be made narrower than the adjacent face of the concrete or cement body, the flanges of the clamping device would simply extend over the lateral edges of the nailing-strip. Where, however, the nailing-strip was of a width equal to that of the corresponding face of the body structure, the flanges of the clamping device would preferably be of sufficient length to project over and upon the corresponding faces of the body, as indicated in Fig. 6. The nailing-strip may extend longitudinally of the concrete or cement body or transversely thereof, as may be required. In Fig. 3 the nailing-strips *c* extend across the fence-post at the top and the bottom thereof, the clamping devices or metal clips extending longitudinally of the body. To prevent splitting of the nailing-strips, the clamping device should of course extend crosswise of the grain of the wood of the nailing-strip.

In the formation of a fence-post I prefer to construct the body of the post with a projecting cap, (indicated at *i*,) the cap projecting over the upper end of the nailing-strip to protect the adjacent end of the strip from the weather.

The clamping devices *g* obviously serve as braces to materially strengthen the nailing-strips and their engagement upon the concrete or cement body.

The nailing-strips are made of suitable wood of desired length and width and thickness to serve the particular purpose for which the structure is intended to be used, the nailing-strip being designed to be suitable for fastening securely thereto fencing of different kinds when the structure is designed for a fence-post, or building material where the structure is designed to be used as a house-block, or railway-rails where the structure is

designed to be used for a railway-tie. Obviously the nailing-strip may be removed, repaired, and replaced at any time without injury to the concrete or cement body.

The clamping devices extending across the face of the nailing-strips and over the lateral edges thereof will not only prevent splitting by strain thereupon, but will also prevent warping of the strip.

I prefer to strengthen the cement body by suitable iron rods embedded in the plastic material in the formation of the structure, as shown at *k*.

What I claim as my invention is—

1. A concrete, cement or analogous structure having in combination therewith a perforated nailing-strip located upon one of the outer faces of the structure, a clamping device having a perforated body to engage the face of the nailing-strip and provided with flanges at the extremities of the body thereof projecting over the lateral edges of the nailing-strip, and a bolt separable from the clamping device passed through the perforated nailing-strip, and the perforated body of the clamping device and engaged with the cement structure to secure the clamping device and nailing-strip to said structure.

2. In combination a concrete, cement or analogous structure a perforated nailing-strip upon one face thereof, a clamping device formed of sheet metal having a perforated body to extend crosswise over the face of the strip and provided with flanges at the extremity of the body thereof, a bolt separable from the clamping device and passed through the perforated body of the device and perforated nailing-strip and engaged with the cement structure to hold the nailing-strip in place, said clamping device provided with flanges at the extremities of said body projecting over the lateral edges of the nailing-strip for the purpose described, horizontal fence-wires, and staples driven into the outer face of said nailing-strip to hold the wires in place.

3. In combination a concrete, cement or analogous structure, a perforated nailing-strip upon one face thereof, a clamping device having flanges at its extremities to extend crosswise over the face and over the lateral edges of the strip, and a bolt separable from the clamping device passed through the clamping device and engaged with said structure to hold the nailing-strip in place, said structure provided with an integral cap toward the upper end thereof projecting over the upper end of the nailing-strip, and over the corresponding face of the body of the structure.

4. A concrete, cement, or analogous structure provided with a nailing-strip secured upon one face of the structure, and extending across the full width of said structure, a flanged clamping device to engage across the face of the nailing-strip, and a bolt separable from the clamping device and passed through the clamping device and through the post to secure the clamping device and nailing-strip to the body of the structure, the flanges of the clamping device projecting over the lateral edges of the nailing-strip and upon the lateral surfaces of the cement structure.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

GEORGE F. GREENE.

Witnesses:
N. S. WRIGHT,
M. L. ALLEN.