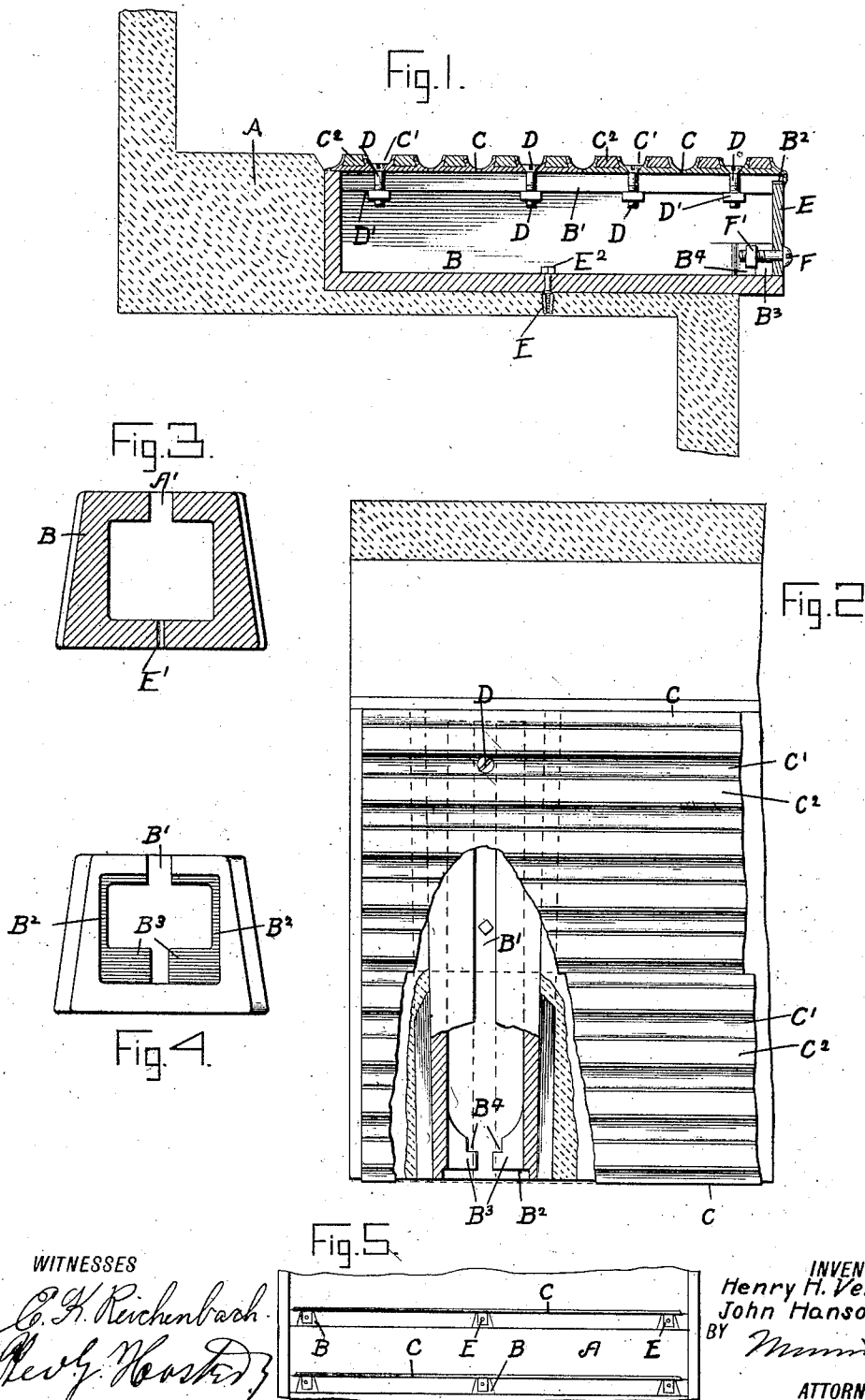


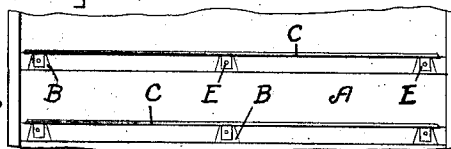
H. H. VERITY & J. HANSON.
STAIR TREAD ANCHOR.
APPLICATION FILED AUG. 13, 1912.

1,056,607.

Patented Mar. 18, 1913.



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HENRY H. VERITY AND JOHN HANSON, OF NEW YORK, N. Y.

STAIR-TREAD ANCHOR.

1,056,607.

Specification of Letters Patent.

Patented Mar. 18, 1913.

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To all whom it may concern:

Be it known that we, HENRY H. VERITY and JOHN HANSON, both citizens of the United States, and residents, respectively, of the city of New York, Ozone Park, borough of Queens, in the county of Queens and State of New York, and of the city of New York, Corona, borough of Queens, in the county of Queens and State of New York, have invented a new and Improved Stair-Tread Anchor, of which the following is a full, clear, and exact description.

The invention relates to concrete stairways, and its object is to provide a new and improved stair tread anchor adapted to be embedded in the concrete steps, and arranged to allow of conveniently and securely fastening the stair treads in position or removing the same in case one is worn out.

For the purpose mentioned use is made of a plurality of spaced, hollow anchor blocks extending transversely in the concrete step and embedded therein, each block being provided at the top with a transverse slot for the reception of bolts to fasten the stair tread in position on the anchor blocks.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a cross section of a stair tread anchor block as applied; Fig. 2 is a plan view of the same with parts in section; Fig. 3 is a cross section of an anchor block; Fig. 4 is a front end view of the same; and Fig. 5 is a reduced front view of a step provided with the improved anchor and tread plates.

In each concrete step A of a concrete staircase are embedded a series of transversely-extending hollow anchor blocks B flush on top with the top of the step A, as plainly indicated in Figs. 1 and 5. Tread plates C, preferably two in number and extending approximately the length of a step A, are placed on top of the several anchor blocks B and are fastened thereto by bolts D engaging a transverse slot B' formed in the top of the corresponding block B. As shown, two tread plates C are used on each step A, one behind the other, and each plate is provided with longitudinally-extending alternating grooves or corrugations C' and tread faces C² of emery, carborundum or

similar suitable material. The head of each bolt D extends in a groove C' so as to be below the tread face of the tread plate, and the nut D' of each bolt D abuts against the under side of the slotted top of the block B.

The front end of each block B is open so as to permit of conveniently passing the bolts D in engagement with the top slot B' and to allow of holding the nuts D' against turning while screwing up the bolts D to securely fasten the tread plate C in position on the anchor block. The front end of each anchor block B is open and provided with a recess B² into which fits a closing plate E closing the open end of the block B after the tread plates C are fastened in place on the anchor blocks B by the use of the bolts D. The closing plate E is provided with a bolt F adapted to extend between lugs B³ rising integrally from the bottom of the anchor block B, the lugs being spaced apart for the passage of the bolt F, and the lugs B³ being provided at the rear with a recess B⁴ for the reception of the nut F' of the bolt F, so that the nut does not turn on screwing up or unscrewing the bolt F on placing the closing plate E in position on the anchor block B or removing it therefrom.

The sides of each anchor block are beveled to prevent upward movement of a block in the embedding concrete, and the anchor block gradually widens from the front end to the rear end thereof to prevent outward movement of an anchor block in the concrete step A.

From the foregoing it will be seen that by the arrangement described, the anchor blocks can be readily embedded in the concrete step A and the tread plates C can be securely fastened in position on the anchor blocks or removed therefrom for repairs or renewal, if deemed necessary.

In order to hold the anchor block B in place so that the same may be used while the surrounding concrete is still "green", an anchor sleeve E' is placed in the concrete and then the anchor bolt B² is passed through aperture E³ and screwed into the anchor sleeve.

Having thus described our invention, we claim as new and desire to secure by Letters Patent:

1. A stair tread anchor, comprising a plurality of spaced hollow anchor blocks extending transversely on a concrete step and embedded therein, each block being provided

at the top with a transverse slot for the reception of bolts to fasten the stair tread in position on the anchor blocks, each block being open at the front, and a removable
5 plate closing the open front end of the block.

2. A stair tread anchor having a hollow anchor block provided at the top with a slot for the reception of bolts to fasten a tread in place on the block, the front end of the
10 block being open and provided with a recess, spaced integral lugs rising from the bottom of the block at the front end, a plate fitting into the said recessed front, and a bolt engaging the said plate and the said lugs to
15 removably fasten the plate in position.

3. A stair tread anchor having a hollow anchor block provided at the top with a slot for the reception of bolts to fasten a tread in place on the block, the front end of the
20 block being open and provided with a recess, spaced integral lugs rising from the bottom of the block at the front end, a plate fitting into the said recessed front, and a bolt engaging the said plate and the said lugs to
25 removably fasten the plate in position, the said lugs being recessed at the back for en-

gagement with the nut of the bolt to prevent the nut from turning.

4. In combination with a concrete stair step, a plurality of spaced hollow anchor
30 blocks embedded in the said step, each anchor block being provided at the top with a transverse slot, a stair tread plate on top of the said anchor blocks, bolts engaging the
35 said slotted top of the anchor blocks and the said tread plate to fasten the latter in place, the said tread plates being corrugated lengthwise to receive the bolt heads in sundry of the corrugations, the nuts of the bolts
40 engaging the under side of the slotted top of the blocks, and a closing plate removably attached to the open front end of each block
to close the said open end.

In testimony whereof we have signed our names to this specification in the presence of
45 two subscribing witnesses.

HENRY H. VERITY.
JOHN HANSON.

Witnesses:

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