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W. E. WHITE

SLEEPER ANCHOR

Filed Dec. 12, 1921

Fig. 1.

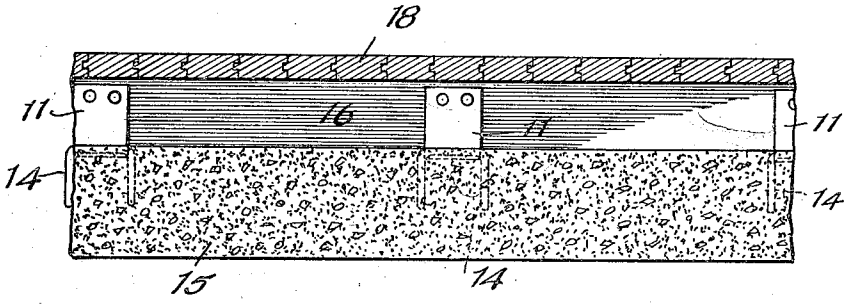



Fig. 2.

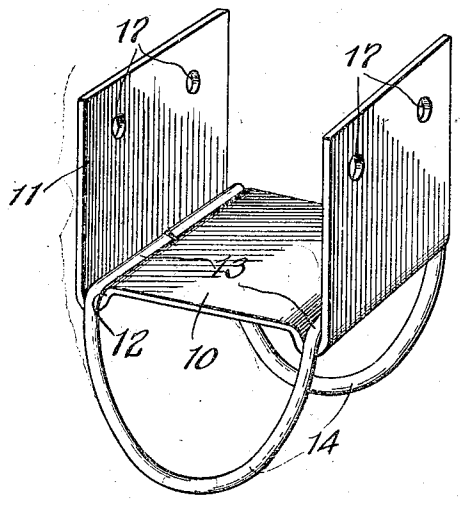
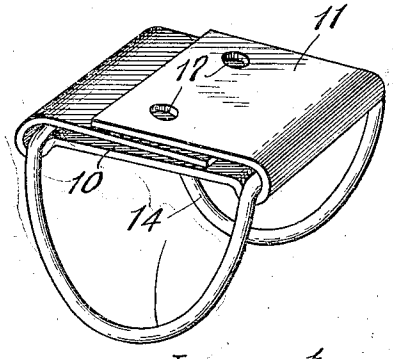



Fig. 3.




Witness:
Earl G. Anderson.

Inventor:
William E. White
By Thomas, Kerr & Thomas Attys

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# UNITED STATES PATENT OFFICE.

WILLIAM E. WHITE, OF CHICAGO, ILLINOIS.

## SLEEPER ANCHOR.

Application filed December 12, 1921. Serial No. 521,600.

*To all whom it may concern:*

Be it known that I, WILLIAM E. WHITE, a citizen of the United States, and resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in a Sleeper Anchor, of which the following is a specification.

My invention relates to devices intended for use in connection with the attachment of flooring to concrete slabs and particularly to a simple improvement on devices of this character as heretofore employed.

One of the objects of my invention is to simplify the manufacture and use of devices of the character described. In the anchor of my invention I utilize two easily formed elements, one of wire and the other of sheet metal, the former acting as the anchoring means and the latter as the fastening means for a sleeper. In the specific embodiment of the invention herein shown I provide a closed loop of wire the terminal portions of which are laterally bent in the same direction, and a sheet metal strip of U-shape adapted to cooperate with and provide a seat for the intermediate portion of the loop. A device of this character can be very economically made and assembled.

The invention will be more readily understood by reference to the accompanying drawing, wherein,

Fig. 1 is a view partly in section and partly in elevation, showing the manner of use of the device of my invention;

Fig. 2 is an enlarged perspective view showing the fastening clips in their operative position, and,

Fig. 3 is a similar view showing the clips in folded or shipping position.

In the drawings it will be seen that the device of my invention comprises a strip of metal of U-shape, having a base 10 and upstanding wings 11, transverse seats 12 being provided at the angle of the parts 10, 11. The seats serve to accommodate the intermediate portions 13 of a closed wire loop, the ends 14 of which are laterally bent into parallelism and constitute anchors adapted to be embedded in a slab 15 of concrete.

When the device is manufactured the wings 11 are bent downwardly and overlapped, as shown in Fig. 3, and the device is installed with the parts in this position. When the concrete has set and the loops 14 are suitably anchored therein, the wings 11 are bent upward into the position of Fig. 2, and are adapted to engage a sleeper 16 between them, nails or other fastening devices being inserted through the opening 17 in the wings. The flooring 18 may then be laid on the sleepers in the usual manner.

The anchoring device is of very simple construction and of light weight, the wire anchoring elements possessing relatively great strength in proportion to the weight of material employed. The inter-engaging portions of the wire and strip being shaped as shown, a flat surface is provided for the accommodation of the wooden sleeper.

One of the particular points of advantage is that by reason of the shape of the anchoring elements they may be very readily caused to enter the plastic concrete and to divert or deflect any stones imbedded therein which would otherwise interfere with the insertion of an anchor of this sort. A further advantage is that when imbedded in the concrete there are no lines of cleavage such as occur in the use of flat imperforate anchoring projections.

It is obvious that the device may be modified in many particulars without departure from the spirit of my invention and I do not wish to be limited except as indicated in the appended claims.

I claim:

1. In a sleeper anchor, the combination of a section of sheet metal of generally U-shape when in one position of use, and an anchoring device consisting of a single length of wire bent into the form of an elongated closed loop the ends bent at right angles in parallelism, the straight portions intervening between the bent ends lying at the corners of the U-shaped portion of sheet metal.

2. In an anchoring device, the combination of a strip of flexible sheet metal bent into generally U-shape and having grooves at the angles of bend, and an anchor consisting of a length of wire formed into a closed

loop, the end portions of the loop being bent at right angles into substantial parallelism, the intervening straight portions lying in said grooves. the legs of the U-shaped sheet metal portion being adapted to be folded down to confine the anchor prior to and during installation and to be bent upward into parallelism after the anchor portions have been encased in the hardened plastic material.

Signed at Chicago, Illinois, this 9th day of December, 1921.

WILLIAM E. WHITE.