Sept. 17, 1935. A. C. FISCHER 2,015,031

MARKING STRIP

Filed Nov. 15, 1928

Fig. 1.

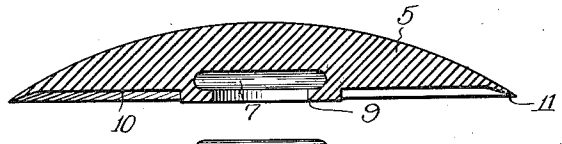


Fig. 6.

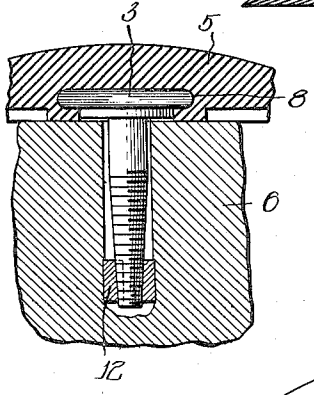


Fig. 2.

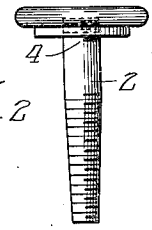


Fig. 7.

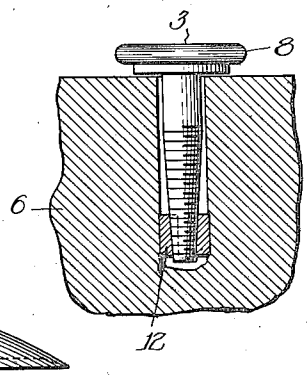


Fig. 3.

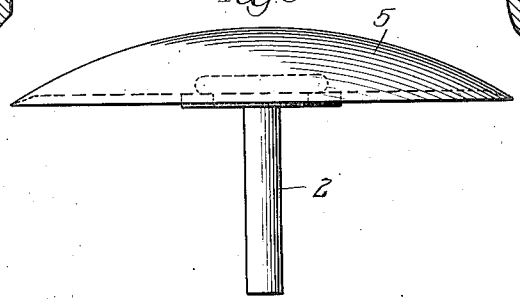


Fig. 4.

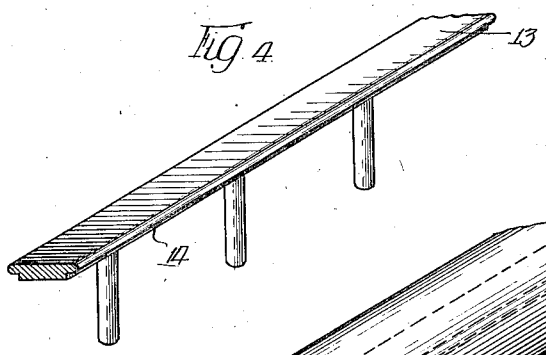
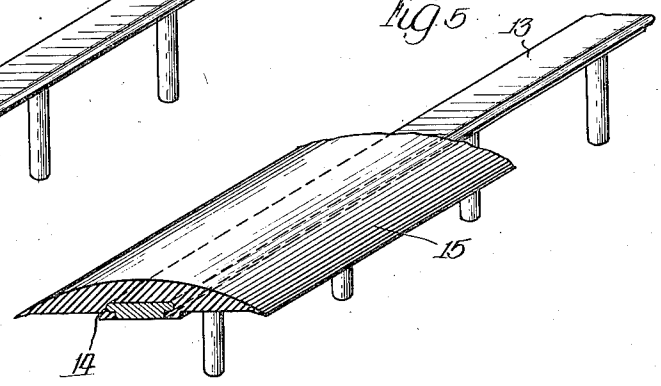


Fig. 5.



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UNITED STATES PATENT OFFICE

2,015,031

MARKING STRIP

Albert C. Fischer, Chicago, Ill., assignor to The Philip Carey Manufacturing Company, a corporation of Ohio

Application November 15, 1928, Serial No. 319,625

11 Claims. (Cl. 94—1.5)

This invention relates to marking strips for street pavements and the like, and pertains particularly to a unit capable of being inserted in the pavement and presenting a cap colored to contrast with the surrounding street surface.

The invention consists in the features, combinations, and arrangements hereinafter described or claimed, for carrying out the above stated object and such other objects as will hereinafter appear.

In general the invention comprises a marking unit, comprising a base or anchoring piece which is embedded in the pavement to present a head on the surface that may be capped with a covering contrasting in color with the surrounding pavement. The units may be inserted at the time the pavement is laid or subsequent, and may constitute relatively small caps or elongated strips.

Referring to the drawing:

Figure 1 is a cross sectional view of a capping piece of a marking unit embodying my invention;

Figure 2 is an anchor strip to which the capping piece is attached;

Figure 3 is a diagrammatic view of the assembled unit;

Figure 4 is a diagrammatic view of a modified form of anchoring strip;

Figure 5 is a diagrammatic view of the modified anchoring strip and capping piece;

Figures 6 and 7 are detailed views showing one means for anchoring the units in the pavement.

The invention is typified by two specific embodiments showing how the invention may be carried into effect. These are similar, the only substantial difference being that one is in the form of relatively small annular buttons, and the other is in the form of an elongated strip.

The unit comprises a metal anchoring or securing stud **2** provided with a head **3** which may be detachably secured thereto by some such means as screw threads **4**, and a cap **5** which is colored to contrast with the surrounding pavement **6**. The cap may be formed of the same material as the anchoring stud, or may be a composition material such as, rubber or the like, which will present a wearing surface. The composition may be of a contrasting color throughout or it may be provided merely with a colored coating applied thereto. The center of the capping is molded, with an annular recess **7** to receive the annular flange **8** on the anchoring strip, so that the two may be interfitted with the lip **9** projecting beneath flange **8** and hold the unit assembled. The bottom side of the capping piece is preferably provided with an annular pocket **10** to form a thin flexible lip **11**, thereby effecting a water seal between the cap and the pavement when the units are inserted.

The fastening strips may be anchored in the pavement in any conventional manner, one means being an expansible nut **12** into which the conical screw-threaded end of the bolt is screwed.

Provision of the stepped structure of the bolt head provides a stop shoulder for contacting with the top surface of the concrete foundation and preventing lip **9** of the rubber covering from being compressed to such an extent as to be cut by the flange **8** on the head, when the marking unit is screwed into place.

In the modified form the anchoring strip is in form of an elongated strip **13**, provided with side lips **14** which are adapted to fit into similarly shaped grooves in elongated strip **15**. Other than the elongated form, the structural details of the two embodiments are the same.

Obviously the invention is not limited to the details of the illustrative embodiments, all of which may be variously modified. Moreover, it is not indispensable that all features be employed to advantage in various different combinations and sub-combinations.

I claim:

1. A road marking device comprising an anchoring stud adapted to be detachably secured in a pavement, a shouldered head on the stud providing a securing flange and a shoulder for spacing the flange from the pavement, and a capping piece, said capping piece being provided with a flange to clasp the securing flange of the head and surround the shouldered portion.

2. A road marking device comprising a securing means adapted to be detachably secured in a foundation, an enlarged stepped head on the securing means providing a securing flange and a shoulder for spacing the flange from the foundation, and rubber capping piece enveloping the enlarged head and surrounding the stepped portion.

3. A road marking device consisting of a securing means adapted to be detachably embedded in a foundation, a removable head on the securing means including a securing flange and means for spacing the flange from the foundation, and a composition capping piece fitted to the head.

4. A road marking device comprising an elongated stepped base strip in which the stepped portion is adapted to space the head of the strip

from the foundation in which the marking device is to be inserted, securing means for detachably fastening the strip to a foundation, and an elongated composition strip secured to the base strip.

5. A marking device comprising an elongated base strip, marginal beads projecting from the sides of the base strip, means for spacing said marginal beads from the foundation in which the marking device is to be inserted, securing means for detachably fastening the strip to a foundation, and a composition strip grooved on one face to engage the marginal beads.

6. A road marking device comprising a securing means adapted to be inserted in a pavement structure, a stepped head on the securing means to provide a flange spaced from the pavement in which the marking device is to be inserted, and a rubber capping means having a flanged socket to receive the flange of the stepped head.

7. A road marking device comprising a securing means adapted to be inserted in a pavement structure, a stepped head on the securing means to provide a flange spaced from the pavement in which the marking device is to be inserted, and a rubber capping means secured to the stepped head, said capping means having on its bottom face a flange adapted to fill the space beneath the flange on the stepped head, a marginal flexible lip, and a recessed portion intermediate the flange and lip.

8. A road marking device comprising a securing means adapted to be inserted in a pavement structure, a stepped head on the securing means to provide a flange spaced from the pavement in which the marking device is to be inserted, and a rubber capping means secured to the stepped head, said capping means being provided on its bottom face with a recess for receiving the stepped head of the securing means and having a flange projecting to fill the space beneath the flange on the stepped head, a marginal flexible lip, and a recessed portion intermediate the flange and lip.

9. A road marking device comprising a securing means adapted to be inserted in a pavement structure, a stepped head on the securing means to provide a flange spaced from the pavement in which the marking device is adapted to be inserted, and a flexible capping means having a flanged socket to receive the flange of the stepped head.

10. In a road marking device, an elongated securing means having one end provided with means for being readily attached to and detached from a preformed pavement and the other end provided with a securing head for being connected with a capping means, said securing head being stepped to provide a flange and a shoulder to space the flange from the paving structure.

11. In a road marking device, a capping means comprising a body having an imperforate curved top surface and a base portion with a recess to receive a securing means, a marginal flange overhanging the recess, and a peripherial lip on the body, both the marginal flange and peripherial lip adapted to contact with the surface of a paving structure with which said capping device is to be associated.

ALBERT C. FISCHER.