

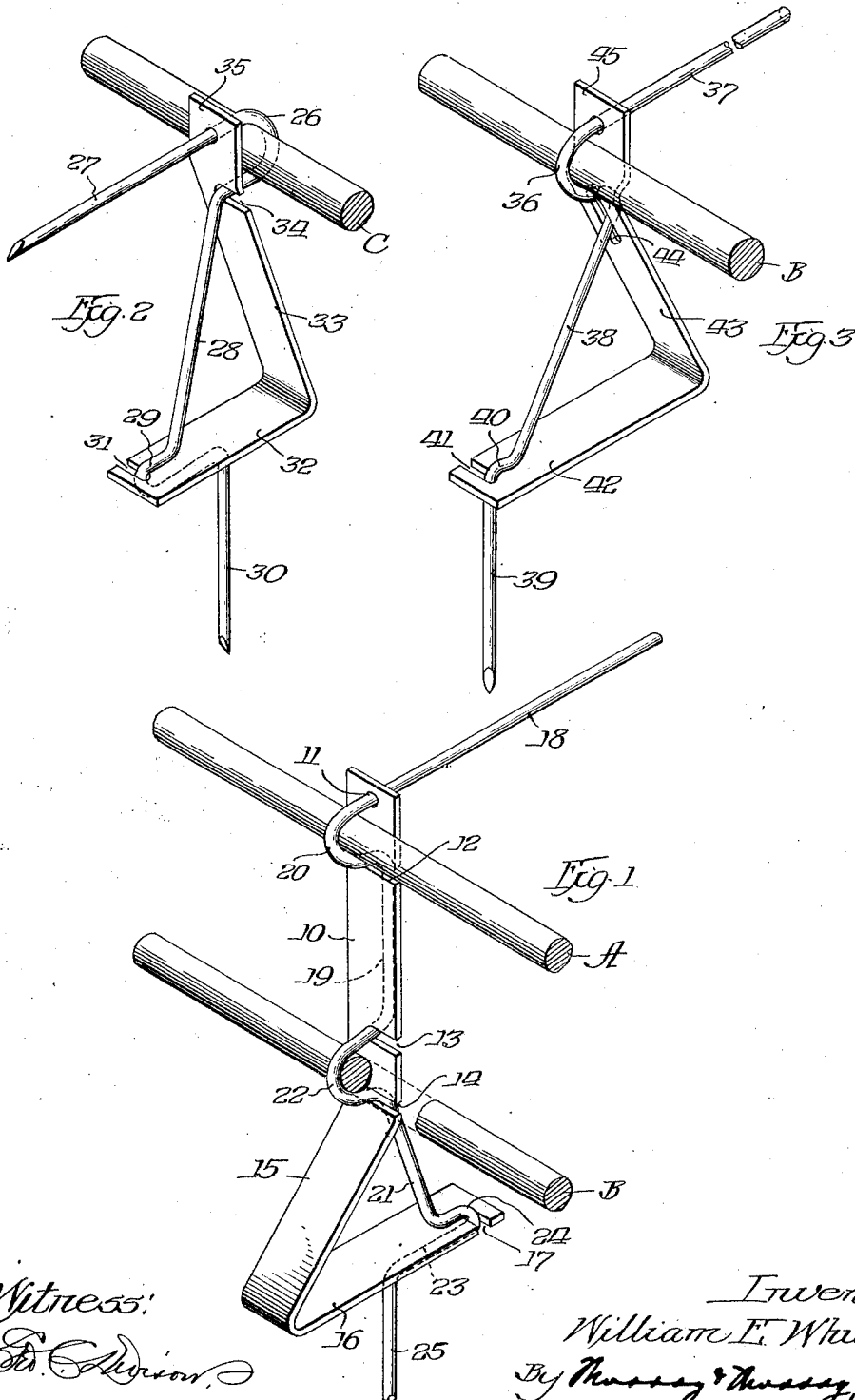
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SPACER AND SUPPORT FOR BARS

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SPACER AND SUPPORT FOR BARS.

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My invention relates to concrete construction and particularly to means for supporting and spacing reinforcing bars in a concrete pavement.

5 An object of my invention is to provide simple and inexpensive means adapted to engage with and adequately support and space one or more bars relative to the soil and the side forms for the pavement. The
10 device consists essentially of a sheet metal strip bent to provide a vertical portion and a flat base, together with a wire member providing a brace and support for the strip member and also providing a spacing arm
15 and a stake. These elements are so constructed that they may be quickly and easily assembled in proper relation to a bar and thereafter provide a firm and rigid support for the bar.

20 My invention will be more readily understood by reference to the accompanying drawing, in which—

Fig. 1 is a perspective view of a form of the invention adapted for use with a pair
25 of vertically alined bars;

Fig. 2 is a similar view of a modified form of the invention in which a single bar is supported, and

30 Fig. 3 is a similar view of a further modified form adapted for use with a single bar.

Referring to Fig. 1, it will be seen that I have illustrated a pair of bars A, B, arranged in vertical alinement and intended to be supported at a point adjacent to the
35 edge of the pavement.

The primary supporting device comprises a length of strip metal having a vertical portion 10 with an aperture 11 near the upper end thereof and notches 12, 13, 14
40 in its sides between the ends; an inclined portion 15, and a horizontal flat base portion 16, having a notch 17, near its extremity.

The wire element or secondary support comprises a horizontal arm 18 adapted to
45 pass through the aperture 11, and to act to space the bars relative to the side form. The portion 18 is joined to a vertical portion 19 by a half bend 20 providing a seat for the bar A. The portion 19 is joined to an
50 inclined portion 21 by means of a bend 22 providing a seat for the bar B. The portion 21 is joined to a horizontal foot portion 23 by means of a bend 24 providing a socket or notch for cooperation with the free end
55 of the base through the notch 17. The wire

terminates in a downward projection 25 that acts as a stake and is adapted to enter the soil. The parts are so proportioned that in order to spring the bend 24 into the notch 17, it is necessary to put the members under
60 tension and this insures a rigid holding of the parts in the position shown.

In the construction of Fig. 2, the parts are very similar. The bar C is held in a bend 26 at the junction of the arm 27 and the inclined portion 28. The bend 29 and the vertical stake 30 are the same as already described and cooperate with a notch 31 in the free end of the base 32 of the strip member in a like manner. The inclined portion 33
65 of the strip has a notch 34 therein at a point near the junction with a vertical portion 35 which carries the aperture for the reception of the arm 27.

The construction of Fig. 3 is likewise
75 similar to the construction already described. The bar B is held in a bend 36 in the wire member at the junction of the horizontal arm 37 and the inclined portion 38. At the junction of the inclined portion 38 with the
80 stake 39, the wire is offset or bent as at 40 to provide an interlock with the notch 41 and base 42. The inclined portion 43 of the strip has an elongated slit 44 therein to receive and laterally hold the wire member as
85 shown. The vertical upper end 45 of the strip has an aperture for the arm 37 as in the constructions already described.

In all of the forms of the device the important advantage is that I provide a broad
90 flat base for contact with the soil and suitably brace the base, thereby overcoming its inherent weakness. In addition the advantages are simplicity of assembly and minimum first cost. The parts may be assembled
95 manually without the use of tools and the final structure will be found to be extremely rigid compared to the weight of the material employed.

I claim:

1. In a bar chair, the combination of
100 primary and secondary bar support members, said primary support having an inclined portion and a flat base portion formed at an acute angle thereto, and said secondary
105 support member having a spacing element adapted to space the device from a side wall, a bar engaging hook on the upper end of said secondary member, an inclined portion and a base providing a support for said first men-
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tioned base and terminating in a stake for insertion into the soil, said secondary member having cooperative relation with said primary member.

2. In a bar chair, the combination of primary and secondary bar support members, said primary support having an inclined portion and a flat base portion formed at an acute angle thereto, and said secondary support member having a spacing element adapted to space the device from a side wall, a bar engaging hook on the upper end of said secondary member, an inclined portion and a base providing a support for said first mentioned base and terminating in a stake for insertion into the soil, said secondary member having cooperative relation with said primary member, said inclined portions being complementary relative to the support of said bar.

3. In combination a pair of separate members adapted for interlocking relation, one member providing a vertical portion and a flat base, the other member providing a stake and a lateral spacing arm, the lower portions of said members diverging from a meeting point to provide a support and brace for said base.

4. In combination a pair of separate members adapted for interlocking engagement, one member comprising a strip of metal providing a vertical portion and a flat base, the other member comprising a length of wire providing a lateral spacing arm, and a stake, the lower portions of said members being bent at a junction point to provide a support and brace for the base of said metal strip member.

5. In combination a pair of separate members adapted for interlocking engagement, one member comprising a strip of metal providing a vertical portion and a flat base, and having a plurality of notches therein, the other member comprising a length of wire adapted to cooperate with the notches in said first member and the other member comprising a length of wire providing a lateral spacing arm, and a stake, the lower portions of said members being bent at a junction point to provide a support and brace for the base of said metal strip member.

6. In combination a pair of separate mem-

bers adapted for interlocking relation, one member providing a vertical portion and a flat base, the other member providing a stake and a lateral spacing arm, the lower portions of said members diverging from a meeting point to provide a support and brace for said base, said first mentioned member being provided with a plurality of notches in the length thereof adapting it for interlocking engagement with said second mentioned member.

7. In combination a pair of separate members adapted for interlocking engagement, one member comprising a strip of metal providing a vertical portion and a flat base, the other member comprising a length of wire providing a lateral spacing arm, a bar seat and a stake, the lower portions of said members being bent at a junction point to provide a support and brace for the base of said metal strip member.

8. In a bar chair, the combination of primary and secondary bar support members said primary support having a vertical portion, a bar seat formed therein, an inclined portion and a flat base portion formed at an acute angle thereto, and said secondary support member having a spacing element adapted to space the device from a side wall, a bar engaging hook on the upper end of said secondary member, an inclined portion and a base providing a support for said first mentioned base and terminating in a stake for insertion into the soil, said secondary member having cooperative relation with said primary member.

9. In combination a pair of separate members adapted for interlocking engagement, one member comprising a strip of metal providing a vertical portion, an inclined portion and a flat base, and the other member comprising a length of wire providing a lateral spacing arm adapted to pass through an aperture in the upper end of said strip, a bar seat, and a stake, the lower portions of said members being outwardly bent at a junction point to provide complementary supports and braces for the base of said strip.

In testimony whereof I have affixed my signature.

WILLIAM E. WHITE.