

Sept. 4, 1928.

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D. H. BITNEY

STRUCTURAL UNIT

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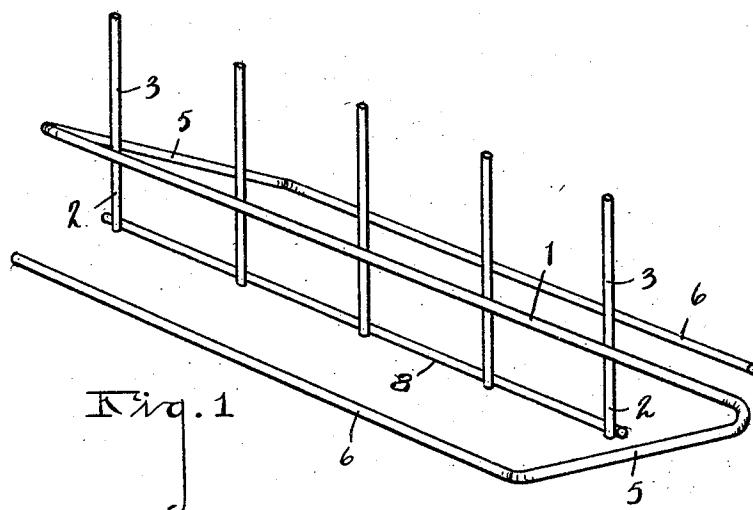


Fig. 1

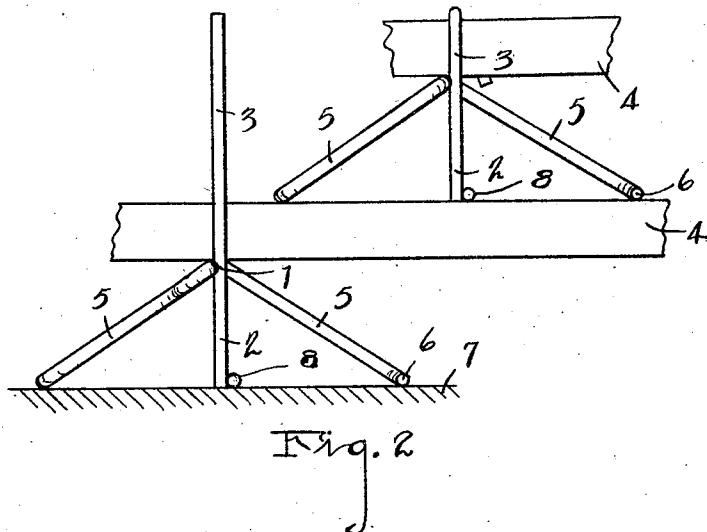


Fig. 2

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STRUCTURAL UNIT.

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The main object of this invention is to provide an integrally fabricated structural unit for the positioning and supporting of reinforcing bars in concrete structures. 5 A further object is to provide an improved structural unit of this class which is simple and economical in structure and has a great variety of uses or adaptations in concrete structural work. 10 Objects pertaining to details and economies of my invention will definitely appear from the detailed description to follow. The invention is clearly defined and pointed out in the claims. 15 A structure embodying the features of my invention is clearly illustrated in the accompanying drawing forming a part of this application, in which: Fig. 1 is a perspective view of a structural unit commonly known as a "beam bolster" embodying the features of my invention. 20 Fig. 2 is a fragmentary view illustrating an application or adaptation of my improvements in a form. Referring to the drawing, my improved structural unit comprises a longitudinal supporting rod or bar 1 to which I secure in spaced relation a plurality of upright legs 2 which are fixedly secured, preferably by 25 electric welding. The upper ends of the legs project above the bar to provide reinforcing bar positioning members 3. These members may, if desired, be wrapped around the bars 4 to be supported as shown in Fig. 2. 30 I have shown these bar positioning members as of considerable length. However, the length may be as desired. 35 At their lower ends the legs are connected by a base bar 8 which serves as a support 40 when the bolster is arranged upon spaced reinforcing bars or form members and also as a bracing member for the legs and the unit as a whole. 45 At its ends the longitudinal bar 1 is provided with downwardly inclined arms or struts 5 disposed oppositely and terminating in the horizontally disposed base bars 6 which lie in the plane of the lower ends of the legs. These struts and the base bars keep the structure in upright position, the base bars supporting the unit on spaced reinforce bars as 50 4 in Fig. 2 where it is desired to support more than one series of reinforcing bars. 55 7 represents the form on which the first bolster is mounted. Where the bolster is to be mounted in superimposed relation on the reinforce bars, as 4 in Fig. 2, I preferably provide a horizontal base bar 8 which is secured to the lower ends of the uprights in position to rest upon the reinforce bars. 60 I have illustrated my improvements and the adaptations thereof in the manner which I believe will enable those skilled in the art to apply or adapt my improvements as may be desired. I have not attempted to illustrate or describe various modifications and adaptations which are possible as I believe this disclosure will enable those skilled in the art to embody or adapt my improvements as may be desired. 65 Having thus described my invention what I claim as new and desire to secure by Letters Patent is: 70 1. A structural unit comprising a longitudinal rod, upright legs welded to said rod in spaced relation with their upper ends projecting above the rod, said rod having downwardly inclined arms at its ends terminating in oppositely disposed longitudinal base members, said base members lying in substantially the planes of the lower ends of the legs, and a longitudinal base member secured to the lower ends of the legs. 75 2. A structural unit comprising a longitudinal rod, upright legs welded to said rod in spaced relation with their upper ends projecting above the rod, said rod having downwardly inclined arms at its ends terminating in oppositely disposed longitudinal base members, said base members lying in substantially the planes of the lower ends of the legs. 80 3. A structural unit comprising a longitudinal supporting rod, a plurality of legs secured to said rod in spaced relation, said rod having oppositely disposed downwardly inclined supporting arms at its ends, and parallel base bars carried by said arms, said base bars lying in substantially the plane of the lower end of said legs. 85 4. A structural unit comprising a longitudinal supporting rod, a plurality of legs secured to said rod in spaced relation, said rod having oppositely disposed downwardly inclined supporting arms at its ends, and a longitudinal base member secured to the lower ends of the legs. 90 5. A structural unit comprising a longitudinal rod having downwardly inclined struts at its ends, base members disposed at each side of the longitudinal rod carried by 95 100 105 110

said struts, and a plurality of upright legs on said rod between said struts, and a longitudinal base member secured to the lower ends of the legs.

5. A structural unit comprising a longitudinal supporting rod, a plurality of legs secured to said rod, said rod having oppositely disposed downwardly inclined struts at its ends, and a longitudinal base member secured 10 to the lower ends of the legs.

7. A structural unit comprising a longitudinal rod having downwardly inclined struts at its ends, a plurality of legs secured to said rod in spaced relation between said struts, and longitudinal base members at the lower ends of said struts disposed in planes at the sides of the said longitudinal rod. 15

In witness whereof I have hereunto set my hand.

DEWEY H. BITNEY.