

Aug. 28, 1928.

H. H. LAMPERT

1,682,012

BAR SUPPORT

Filed April 18, 1927

Fig. 1.

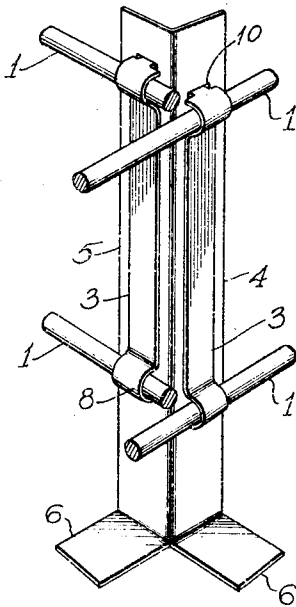


Fig. 2.

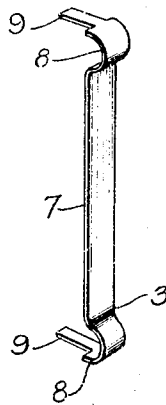


Fig. 3.

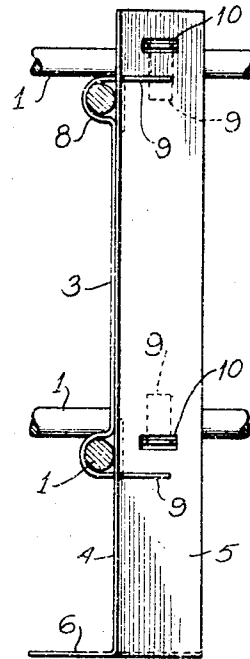


Fig. 4.

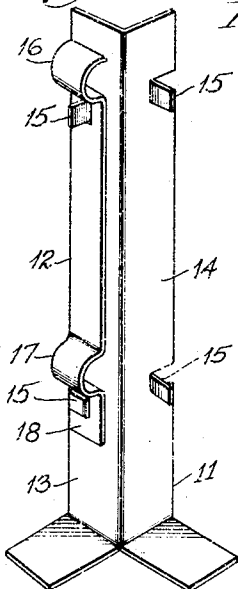


Fig. 5.

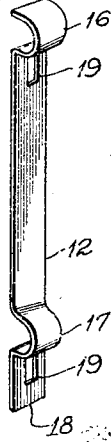


Fig. 6.

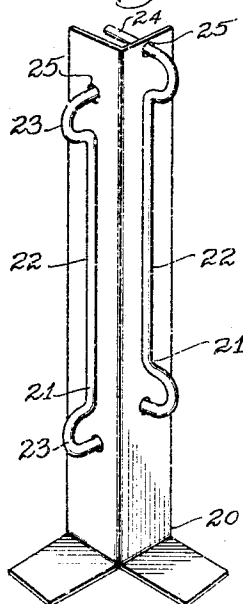
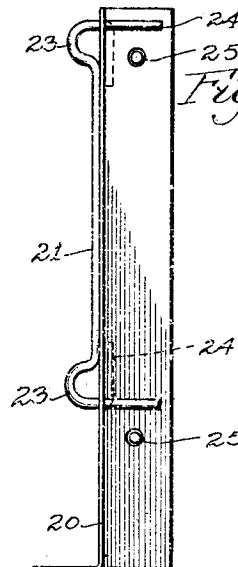


Fig. 7.



Witnesses.

Arthur M. Frank.

W. E. Anderson.

Inventor.

H. H. Lampert.

By Kummer & Kummer,
Attys.

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UNITED STATES PATENT OFFICE.

HENRY H. LAMPERT, OF CHICAGO, ILLINOIS.

BAR SUPPORT.

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The main objects of this invention are to provide improved means for supporting reinforcing bars used in concrete construction work; to provide a bar support having improved spacing means for spacing the bars one above another; to provide an improved bar support and spacer for supporting reinforcing bars arranged in crossed vertical planes; and to provide a bar support and spacer of this kind which is particularly adapted for use in road construction for supporting the longitudinal and transverse bars above the ground.

Illustrative embodiments of this invention are shown in the accompanying drawing, wherein:—

Figure 1 is a perspective of one form of bar support and spacer with reinforcing bars supported thereon.

Fig. 2 is a perspective of one of the spacing and clamping clips shown in Fig. 1.

Fig. 3 is a side elevation of the device shown in Fig. 1, the dotted outlines representing the tongues of the clips in their clamping position.

Fig. 4 is a perspective of a modified form of bar support and spacer, one of the spacing clips being omitted to permit illustration of the supporting structure.

Fig. 5 is a perspective of the spacing clips shown in Fig. 4.

Fig. 6 is a perspective of another form of device, wherein the spacing clip is formed of wire.

Fig. 7 is a side elevation of the same, the dotted outlines representing the tongues in locking position.

In the forms shown, the improved bar supports and spacers are used for supporting reinforcing bars 1 which are disposed horizontally one above another in substantially vertical crossed planes.

As herein illustrated, the improved device comprises a supporting chair adapted to be supported in an upright position on the ground or other supporting surface. The chair preferably comprises a sheet metal stamping in the form of an angle bar which is slit at one end thereof to permit the two flanges to be bent outwardly to provide supporting feet. The spacing and fastening means comprises an improved form of clip which comprises a substantially straight portion abutting against the chair and seat portions at the ends thereof for supporting the reinforcing bars. The clips may be

sheet metal stampings as illustrated in Figs. 1 to 5 inclusive or may be formed of wire as shown in Figs. 6 and 7. The chair and clips are provided with interlocking parts adapted to secure them together.

In the specific form shown in Figs. 1 and 2, the device comprises a support or chair 2 and a pair of spacing clips 3. The chair 2 comprises an angle bar having its flanges 4 and 5 arranged at substantially right angles to each other and provided with feet 6.

Each of the clips 3 comprises a substantially flat strip having a spacing portion 7 adapted to abut against the chair and having its ends bent to form a pair of seats 8 in which the reinforcing bars 1 are supported. The extremities of the clip form tongues 9 adapted to extend through apertures 11 in the flanges 4 and 5 and to be bent to abut against the inner faces of the flanges as shown in dotted outline in Fig. 3 for securing the bars 1 to the support. The apertures 10 are located in different planes so as to permit the bars to be arranged one above another.

In the form shown in Fig. 4, the device comprises a supporting chair 11 and clips 12 somewhat similar in general form to those shown in Figs. 1 and 3, except that in this construction, the tongues of the interlocking means are struck out from the chair for engagement with apertures formed in the clips.

The chair 11 comprises an angle bar having flanges 13 and 14 provided with tongues 15 struck out therefrom. Each of the clips 12 comprises a narrow strip which is bent to form seats 16 and 17 for the bars 1. The seat 16 is located at the upper end of the clip and the seat 17 is spaced from the lower extremity of the clip. The portion 18 at the lower end of the clip provides a brace below the seat 17. Formed in the clips 12 directly below the seats 16 and 17 are apertures 19 for receiving the tongues 15 which are adapted to be bent over the outer faces of the clips.

The device shown in Figs. 6 and 7 comprises a chair 20, similar in construction to that shown in Figs. 1 and 3, and clips 21. The clips 21 are formed of wire which is bent to provide spacing portions 22, seats 23, and tongues 24. The latter project through apertures 25 in the chair 20 and are bent over against the inner faces of the chair for clamping the bars to the support.

In operation, the chairs are placed in an upright position on the ground or other supporting surface and, while the bars are held against the chairs, the clips are placed in position and the tongues are then bent for locking the parts together.

Although but certain specific embodiments of this invention have been herein shown and described, it will be understood that numerous details of the construction shown may be altered or omitted without departing from the spirit of this invention as defined by the following claims.

I claim:

15 1. A device of the class described comprising a support, a clip having a pair of seat portions spaced apart and adapted to support bars in substantially the same plane, the portion of said clip between said seat portions
20 being arranged to abut against one face of said support, and interlocking means on said support and clip.

25 2. A device of the class described comprising an upright support, a clip having a pair of seat portions spaced apart vertically and adapted to support bars, the portion of said clip between said seat portions forming an upright brace abutting against one face of said support.

3. A bar support and spacer comprising a chair, a clip supported thereon and having a pair of seat portions arranged one above the other for supporting bars in a substantially vertical plane, and interlocking means on said chair and clip.

35 4. A bar support and spacer comprising an upright chair having two substantially vertical faces arranged transversely to each other, a pair of clips supported on said faces, each of said clips having a pair of seat portions spaced apart longitudinally of said chair to support horizontal bars, the seat portions of one clip being staggered with respect to those of the other clip whereby the bars may be supported at different elevations, and interlocking means on said chair and clips.

5. A bar support and spacer comprising a chair having a pair of apertures therein, a clip having a substantially straight brace portion adapted to abut against said chair between said apertures, seats on said clip adjacent the ends thereof for supporting bars, and tongues at the ends of said clip adapted to engage said apertures for securing said clip to said chair.

Signed at Chicago this 15 day of April, 1927.

HENRY H. LAMPERT.