Jan. 17, 1928. 1,656,378

H. H. LAMPERT

BAR SUPPORT AND SPACER

Filed Feb. 12, 1927

Fig. 1.

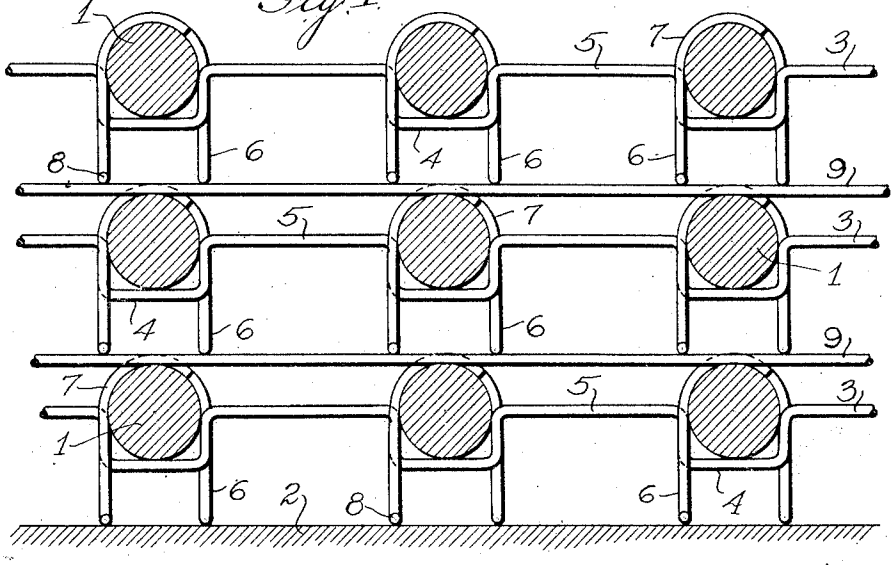


Fig. 2.

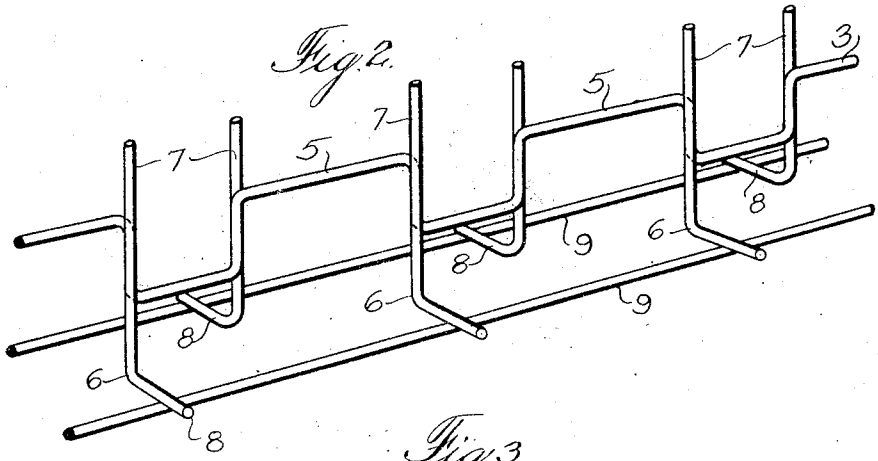


Fig. 3

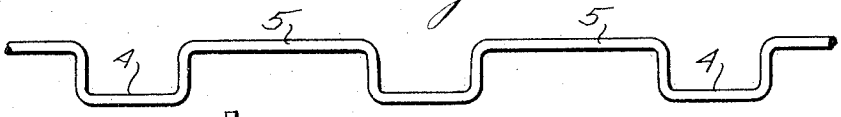
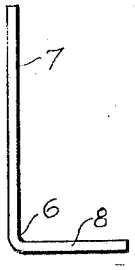


Fig. 4



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Patented Jan. 17, 1928. 1,656,378

UNITED STATES PATENT OFFICE.

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BAR SUPPORT AND SPACER.

Application filed February 12, 1927. Serial No. 167,686.

This invention relates to reinforcing systems for concrete construction work.

The main objects of this invention are to provide improved means for spacing the reinforcing bars; to provide improved means for supporting said spacing means; and to provide an improved bar support and spacer whereby the reinforcing bars may be supported in rows disposed in different planes.

An illustrative embodiment of this invention is shown in the accompanying drawing wherein:—

Figure 1 is a vertical section of a mold showing a reinforcing system to which the invention is applied.

Fig. 2 is a perspective of one of the improved devices.

Fig. 3 is a side elevation of the spacing rod.

Fig. 4 is a side elevation of one of the supporting legs.

In the form shown, the reinforcing system involves the use of a plurality of reinforcing bars 1, disposed horizontally above a falsework 2 and supported in rows in substantially parallel spaced relation by the improved bar supports and spacers.

The support and spacer is preferably made of wire of comparatively heavy gauge which possesses the necessary rigidity and which may be bent to the desired form.

In the specific form herein illustrated, the device comprises a rod 3, having a plurality of crooks formed at regular intervals along its length to provide substantially U-shaped seats 4 for supporting the reinforcing bars 1. The intermediate portions of the rod 3 provide spacers 5 for spacing the bars 1 laterally. The seats 4 and spacers 5 are disposed in a single vertical plane.

Secured to each of the seats 4, is a pair of supporting legs 6, arranged at respectively opposite ends of the seat and on respectively opposite sides of the rod 3. The legs 6 are preferably L-shaped, so as to provide upright portions 7, disposed substantially in the plane of the seats 4, and feet 8 extending outwardly therefrom. The feet of each pair of legs extend in respectively opposite directions to stabilize the structure. The legs 6 are disposed preferably in substantially parallel planes at right angles to the plane of the spacing rod 3. In the form shown, the upright portions 7 of the legs 6 project above the seats 4 to provide fingers, which are adapted to be bent over the reinforcing bars 1 for securing them to the supports.

In order to permit the devices to be supported one above the other for supporting the reinforcing bars in rows, the legs of the spacers above the bottom row are provided with additional supporting means to enable them to rest upon the next succeeding lower bars.

As shown in Figs. 1 and 2, the additional supporting means comprises a pair of rods 9 secured to the feet 8 and disposed substantially parallel to the spacers 5. The legs 6 are secured to the rods 3 and 9 preferably by spot welding.

In operation, the lower devices are placed on the falsework 2 and after the first row of bars has been placed thereon, the fingers 7 are bent over the bars to secure the latter against displacement. Other devices are then placed above the bars with the rods 9 resting directly on the lower bars. With this improved construction and arrangement of parts, a reinforcing system may be constructed involving any number of rows of bars.

Although but one specific embodiment of this invention has been 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:

1. A device of the class described comprising a spacing rod bent to form a plurality of substantially U-shaped seats disposed in one plane for supporting reinforcing bars in spaced relation to one another, and a pair of L-shaped legs secured to each of said seats and located in substantially parallel planes disposed at right angles to said one plane, one portion of each of said legs being located substantially in the plane of said seats and the other portion thereof providing a foot, certain of said first mentioned portions extending beyond said seats to form fingers adapted to be bent around the reinforcing bars.

2. A device of the class described comprising a spacing rod bent to form a plurality of substantially U-shaped seats disposed in one plane for supporting reinforcing bars in spaced relation to one another, and a pair of L-shaped legs secured to each

of said seats on respectively opposite sides of said rod and located in substantially parallel planes disposed at right angles to said one plane, one portion of each of said legs being located substantially in the plane of said seats and the other portion thereof providing a foot, certain of said first mentioned portions extending beyond said seats to form fingers adapted to be bent around the reinforcing bars.

3. A device of the class described comprising a rod bent at intervals to form a plurality of substantially U-shaped seats disposed in one plane for supporting reinforcing bars, the intermediate portions of said rod serving to space the bars, a pair of L-shaped legs secured to each of said seats at respectively opposite ends thereof and located in substantially parallel planes disposed at right angles to said one plane, portions of said legs providing feet, and a pair of other rods secured to said feet on respectively opposite sides of said one plane and disposed substantially parallel to said intermediate spacing portions of said first mentioned rod.

Signed at Chicago this 10th day of Febr., 1927.

HENRY H. LAMPERT.