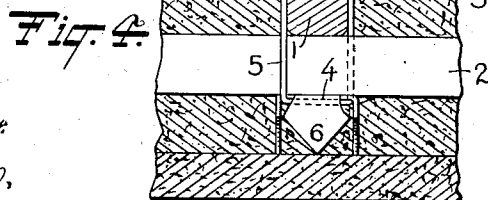
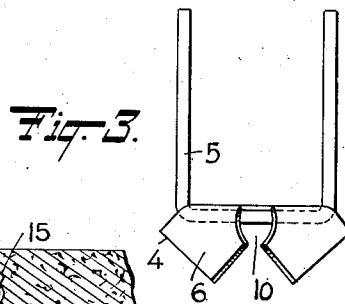
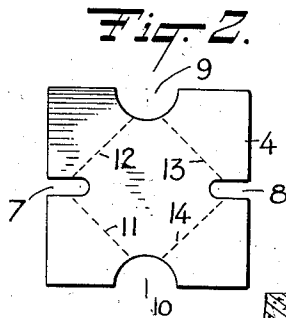
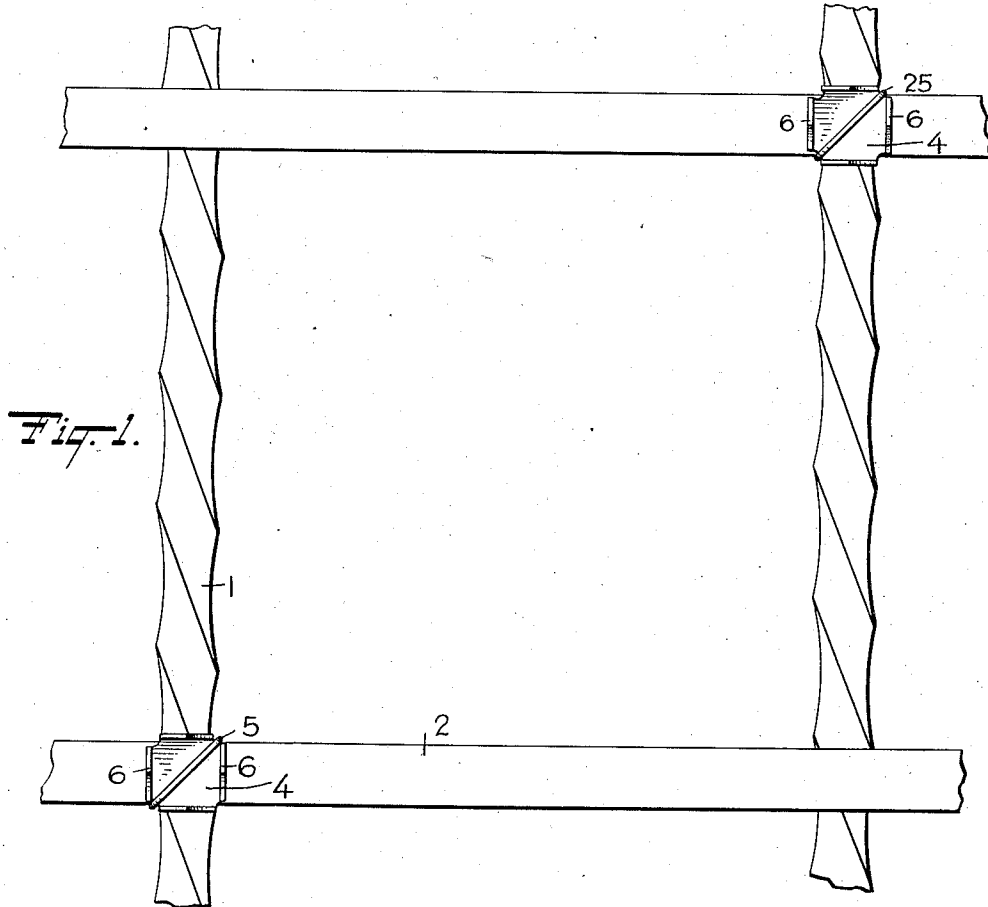


C. A. KOERNER.
SUPPORT FOR CONCRETE REINFORCEMENTS.
APPLICATION FILED JUNE 4, 1912.

1,055,052.

Patented Mar. 4, 1913.



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UNITED STATES PATENT OFFICE.

CHARLES A. KOERNER, OF LOUISVILLE, KENTUCKY.

SUPPORT FOR CONCRETE REINFORCEMENTS.

1,055,052.

Specification of Letters Patent.

Patented Mar. 4, 1913.

Application filed June 4, 1912. Serial No. 701,694.

To all whom it may concern:

Be it known that I, CHARLES A. KOERNER, a citizen of the United States, and a resident of Louisville, in the county of Jefferson and State of Kentucky, have invented a new and Improved Support for Concrete Reinforcements, of which the following is a full, clear, and exact description.

This invention relates to improvements in means for supporting concrete reinforcements, and has for an object to provide a simple inexpensive structure which not only supports the reinforcements at the desired place but acts as tying means for connecting the various parts together.

A further object of the invention is to provide a support which acts in a double capacity, that of a support and a reinforcement, by reason of the diverging or radiating construction of its component members.

In carrying out the objects of the invention a blank is stamped so that when folded the same will form a plurality of diverging supporting legs and a retaining portion which is adapted to receive a binding wire for binding or clamping parts of the reinforced material together. The legs of the blank are designed to support the reinforced members at a proper distance from the support on which the legs rest, while the binding members are locked together at proper spaced intervals of the various reinforcing bars or other members.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts throughout all the views.

Figure 1 is a bottom plan view of part of the reinforcing system of bars showing an embodiment of the invention applied thereto; Fig. 2 is a top plan view of a blank embodying certain features of the invention; Fig. 3 is a side view of a complete support embodying the form of the invention disclosed in Fig. 1; and Fig. 4 is a longitudinal vertical section through a section of cast concrete showing an embodiment of the invention in connection therewith.

Referring to the accompanying drawings

by numerals, 1 and 2 indicate reinforcing bars of any desired kind, designed to reinforce a layer of concrete 3 shown in Fig. 4. In order to properly space the bars 1 and 2 from the block of concrete 3, and to properly hold the same in place, a plurality of supporting members 4 are provided, having associated therewith a plurality of entwining or binding members 5. The supporting members 4 are provided with a plurality of supporting legs 6, and with notches 7 and 8, and also with notches or cut out portions 9 and 10. In forming the support 4, the same is bent on lines 11, 12, 13, and 14, whereby the corners may be turned or bent down for forming the supporting legs 6. When the legs 6 have been bent down to their proper position, notches 7 and 8 are correctly in position for receiving the binding wire 5 designed to be bent over the bars 1 and 2 and entwined or twisted, as more clearly shown in Fig. 4. It will be observed that by this construction the members 4 support the bars 1 and 2, and the binding or entwining members 5 bind the bars together; and in addition by having the twisted portion 15 project upwardly, present reinforced extensions or lugs so that at the point where the supports are provided the concrete 3 is formed with reinforcements extending substantially for the full thickness of the concrete.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. In a device of the character described, a base formed with a body portion having a notch extending inwardly from the center of each of the four sides and bent down corners bent on a line drawn from one notch to the other, and an entwining member fitting into a pair of said notches.

2. A device of the class described comprising, a support formed of a square blank having notches in the middle of the sides and each of its corners bent between the notches about a line parallel to the diagonals of the square and an entwining bar associated with said notches in said support and projecting above the same.

3. A device of the class described comprising, a support having four legs each

terminating in a point, and said adjacent
legs being substantially normal to each
other, said support having notches between
said legs and entwining member engaging a
5 pair of opposite notches and adapted to at-
tach said support in a predetermined place.

In testimony whereof I have signed my

name to this specification in the presence of
two subscribing witnesses.

CHARLES A. KOERNER.

Witnesses:

H. C. WARREN, Jr.,

J. M. VOLLMER.
