

H. J. BAKER.
SPACER FOR REENFORCEMENTS.
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1,409,645.

Patented Mar. 14, 1922.

Fig. 1.

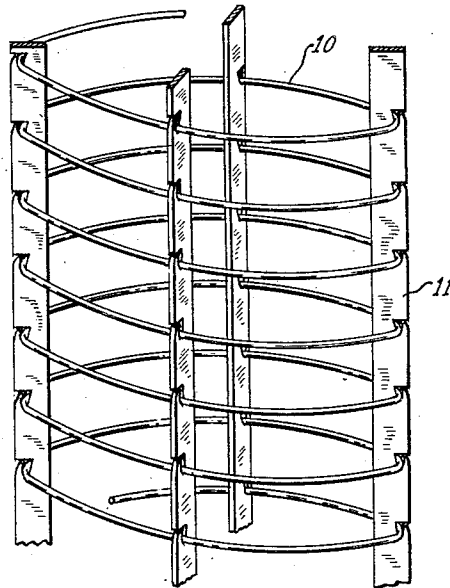


Fig. 2.

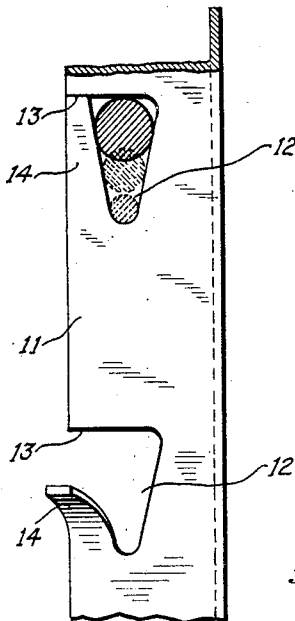
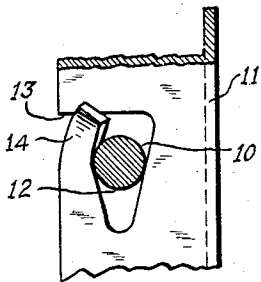


Fig. 3.

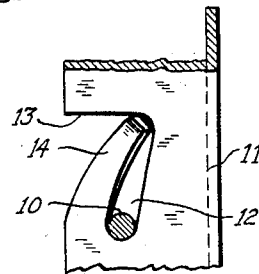


Fig. 4.

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SPACER FOR REENFORCEMENTS.

1,409,645.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HUGH J. BAKER, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented a new and useful Spacer for Reenforcements, of which the following is a specification.

It is the object of my invention to provide a spacer for the spiral reinforcing of concrete columns, for spacing apart the successive turns of such reenforcement, which spacer will be simple and inexpensive to construct and apply and will effectively hold the turns of the reenforcing in place.

The accompanying drawing illustrates my invention: Fig. 1 is a fragmentary perspective view of a spiral reinforcing equipped with my improved spacers; Fig. 2 is a fragmentary elevation of one of the spacers, showing in the upper notch how it grips reenforcing of large size, and with the lower notch open to receive a reenforcing bar; and Figs. 3 and 4 are views similar to Fig. 2, showing how medium and small reenforcing bars are gripped.

The spiral reinforcing bar 10, which in itself is well known, is of any suitable size and shape, usually round in cross-section, and the successive turns thereof are spaced apart by a plurality of my improved spacers 11. These spacers may be flat bars as shown in Fig. 1, or any other structural metal formation which includes a flat bar having a free edge, such as the angle-iron construction shown in Fig. 2, and are set edgewise with respect to the reenforcing. The flat bar which constitutes or forms part of such spacer has punched through it a series of openings 12, each narrower at one end than at the other and of greater length than width, with the length of the opening extending lengthwise of the bar, and these openings 12 at their wider ends are connected to the free edge of the bar by a cut 13 transverse to the bar to form a tongue 14 which may be bent obliquely out of the plane of the flat bar as the lower tongue in Fig. 2 is shown, thus spreading the cut 13 to provide a wide doorway to the associated opening 12. The opening 12 and cut 13 may be formed in one stamping operation; and pref-

erably the tongue 13 is bent out of the plane of the bar 11 in the same stamping operation, though it may be left in such plane for subsequent bending out, by a hammer blow or by a special bending tool, if that is preferred. After the spacer is formed with the openings 12, and the tongues 14 opened, the spacer may be associated with the spiral reenforcing, by being placed vertically on the inside thereof in edgewise relation thereto and having successive turns of the spiral reenforcing placed in the several openings 12. When the turns of the reenforcing 10 are put in the openings, the tongues 14 may be bent in and down, by a special bending tool or by one or more hammer blows, over the reenforcing passing through the associated opening 12. When thus bent into clamping position, the tongue 14 grips the reenforcing 10, and does so for a wide range of sizes of reenforcing, because each opening is narrower at one end than at the other to accommodate such different sizes of reenforcing at different points of its length.

This construction enables the same spacers to be used for a wide range of sizes of reenforcing; so that it is necessary to provide but one size of spacer throughout such range. The tongues 14 are easily bent by hammering, and when in place firmly grip the reenforcing, so that the spiral reenforcing may readily be built in place as needed and held in place firmly until the concrete is poured.

I claim as my invention:

1. A spacer for spiral reenforcing, including a flat metal bar having openings formed through it, said openings being spaced from the edge of the bar and tapering lengthwise of the bar, and the metal between each opening and the edge being cut through at the wide end to form a tongue which may be bent outward to allow a reenforcing bar to be placed in such opening and then bent to grip such bar.

2. In combination with a spiral reenforcing, a spacer including a flat bar set edgewise with respect to the reenforcing and having openings through it of greater length than width and spaced from the edge, in which openings the turns of the reenforcing may be placed, the metal between each open-

ing and the edge being cut through to form
a tongue which lies between the opening and
the bar edge and which may be bent out to
give access to the openings and bent to grip
5 the reenforcing in the openings, said open-
ings being narrower at their ends toward the
base of the tongue than at their other ends

to accommodate different sizes of reenforc-
ing at different points of their length.

In witness whereof, I have hereunto set 10
my hand at Indianapolis, Indiana, this 3rd
day of August, A. D. one thousand nine hun-
dred and twenty.

HUGH J. BAKER.