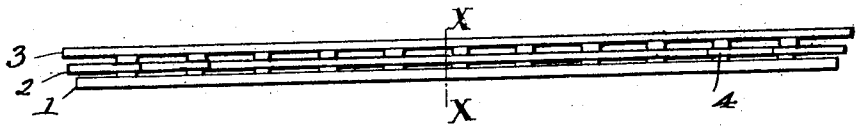
J. H. A. WRISSENBERG.

REENFORCEMENT FOR CONCRETE STRUCTURES.

APPLICATION FILED JAN. 28, 1914.

1,405,654. Patented Feb. 7, 1922.

Fig. 1.



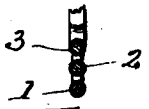


Fig. 3.

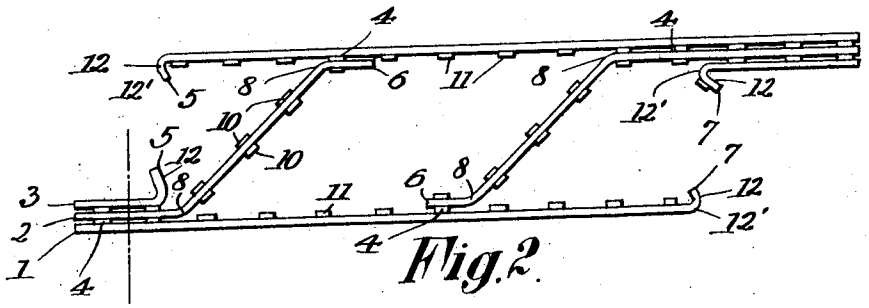


Fig. 2.

Witnesses

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JULIUS HEINRICH ALBERT WRISSENBERG, OF BREMEN, GERMANY.

REENFORCEMENT FOR CONCRETE STRUCTURES.

1,405,654. Specification of Letters Patent. Patented Feb. 7, 1922.

Application filed January 28, 1914. Serial No. 814,963.

(GRANTED UNDER THE PROVISIONS OF THE ACT OF MARCH 3, 1921, 41 STAT. L., 1313.)

To all whom it may concern:

Be it known that I, JULIUS HEINRICH ALBERT WRISSENBERG, of Bremen, Germany, a subject of the Emperor of Germany, have invented certain new and useful Improvements in Reenforcements for Concrete Structures.

This invention relates to improvements in reenforcements for concrete structures.

The object of the invention is to provide a metal reenforcement of such construction that it may be shaped to adapt it to use in connection with bodies of concrete of varying sizes.

A further object of the invention is to provide a reenforcement of such construction that certain parts may be severed and bent to adapt the structure to the shape of the concrete mass.

In the drawings:—

Figure 1 is a view in elevation of the reenforcement before the webs and bars are severed.

Fig. 2 is a similar view after the webs and bars are severed and bent to the desired shape.

Fig. 3 is a section of same on the line x—x of Fig. 1.

Referring to Fig. 1, the numerals 1, 2 and 3 indicate superimposed bars of suitable length, connected by spaced webs 4, arranged at intervals.

The bars 1, 2 and 3 are of bendable metal to so shape the frame to suit the shape of the mass of concrete to be reenforced.

As shown in Fig. 2, the top bar 3 is severed at 5, the intermediate bar 2 is severed at 6, and the lower bar 1 is severed at 7. The intermediate bar 2 is bent at the points indicated at 8, but before being bent, the webs between the points 8, are transversely severed between the respective bars. The severed webs form a series of projections 10 on the opposite sides of the intermediate bar 2, and similar projections 11 on the adjacent faces of the top and bottom bars 1 and 3. The ends 12 of the top and bottom bars are bent, as at 12′, to also engage in the concrete.

By the construction described the reenforcing frame may be bent in various shapes, and the projections and the bent ends of the bars afford anchors for the mass of concrete, with the result that the construction is not only reenforced, but also the concrete and frame are effectually anchored together.

What I claim is:—

A reenforcement for concrete comprising a base bar, a top bar spaced from the base bar, a plurality of intermediate sections of bars between the base and top bars, the portions of the intermediate sections of the bars adjacent the top and base bars being connected thereto by spaced apart webs, the intermediate sections of bars having projections on opposite faces, and the top and base bars having projections on adjacent faces, all the bars and projections being in the same plane.

In testimony whereof I have set hereunto my hand in presence of two witnesses.

JULIUS HEINRICH ALBERT WRISSENBERG.

Witnesses:

FREDERICK HOYERMANN.

WILHELM STRUP.