No. 896,589. PATENTED AUG. 18, 1908.

J. H. SCHLAFLY.

BAR FOR CONCRETE CONSTRUCTION.

APPLICATION FILED JUNE 15, 1907.

Fig. 1.

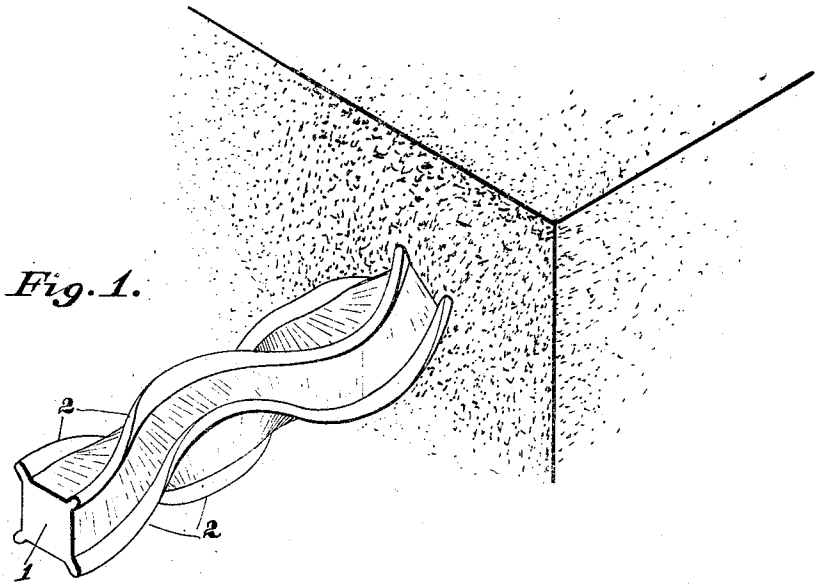


Fig. 2.

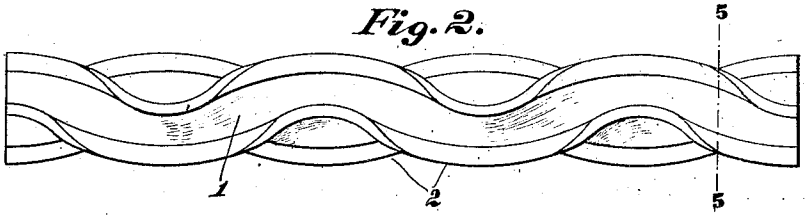


Fig. 3.

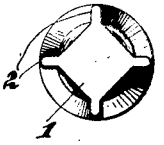


Fig. 4.

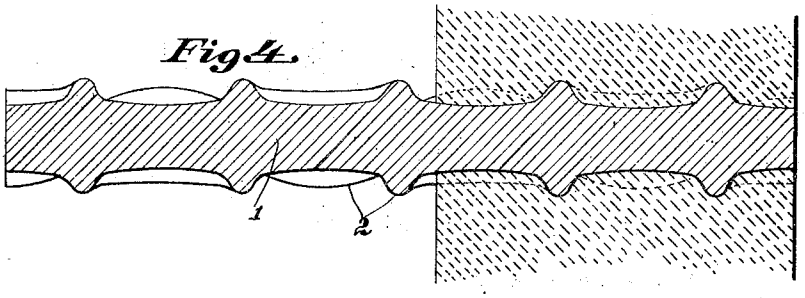
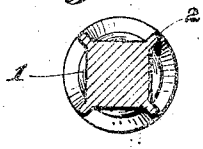


Fig. 5.



Witnesses

Harry O. Rastetter.

Sylvia Boos.

Inventor.

Julius H. Schlafly

By F. W. Bond

Attorney.

UNITED STATES PATENT OFFICE.

JULIUS H. SCHLAFLY, OF CANTON, OHIO, ASSIGNOR TO THE BERGER MANUFACTURING COMPANY, OF CANTON, OHIO, A CORPORATION OF OHIO.

BAR FOR CONCRETE CONSTRUCTION.

No. 896,589. Specification of Letters Patent. Patented Aug. 18, 1908.

Application filed June 15, 1907. Serial No. 379,219.

To all whom it may concern:

Be it known that I, JULIUS H. SCHLAFLY, a citizen of the United States, residing at Canton, county of Stark, and State of Ohio, have invented certain new and useful Improvements in Bars for Concrete Construction, the object of which is to so form a bar that the forces acting in the same line and in opposite directions will produce equilibrium and at the same time produce a bar so constructed that a constant and light formation in cross-section is preserved throughout its entire embedded length.

The following is a full, clear, and exact description of my improved reinforcing bar, reference being had to the accompanying drawing, making a part of this specification and to the numerals and figures of reference marked thereon, in which—

Figure 1 is a view showing a cement body or portion of a wall or other cement structure illustrating the bar in proper relationship with reference to the cement structure. Fig. 2 is a detached view of the bar. Fig. 3 is an end view of the bar. Fig. 4 is a longitudinal central section through the bar and illustrating a portion of the bar embedded or seated in cement. Fig. 5 is a transverse section on line 5—5, Fig. 2.

Similar numerals of reference indicate corresponding parts in all the figures of the drawing.

In the accompanying drawing, 1 represents the body of the bar, which bar is preferably formed square or rectangular but is to contain within itself a sufficient amount of metal to produce a bar of considerable rigidity and one not liable to vibrate with the short vibrations in comparatively thin cement structures, either vertically or horizontally.

The body of the bar is provided with the ribs 2, which ribs are formed of a length to correspond with the length of the bar proper, and to carry out the object and purpose above described the ribs 2 are corrugated, the corrugations being substantially of the form shown in the drawings, and the bar proper is corrugated, which corrugations are practically parallel with the corrugations of the ribs. By forming the ribs 2 as above described they will be seated in the cement so as to produce an equal strain upon each and every linear part of the bar or in other words the strain as between the cement and the bar caused by any vibrations will be equal and alike throughout the entire length of the bar and when the bar extends the entire length of the cement body, then the strain will be equal.

For the purpose of preventing vibrations the ribs 2 are corrugated so that there can be practically no vibrations; but should slight vibrations occur the danger of separating the contact as between the cement and metal at any point is removed, owing to the fact that there can be no excessive pulling or concentration of force at any particular point throughout the length of the bar.

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

1. As an improved article of manufacture, a bar formed rectangular in cross-section, ribs extended from the angles of said bar, said ribs formed of a length corresponding with the length of the bar and the bar and ribs twisted in opposite directions and the ribs located parallel with each other, substantially as and for the purpose specified.

2. A bar for concrete work, rectangular in cross-section, said bar provided with extended ribs located at its angles, said bar and ribs twisted in opposite directions and said ribs located parallel with each other, substantially as and for the purpose specified.

3. As an improved article of manufacture, a bar for concrete work provided with ribs, said ribs located at the angles of the bar and the bar and ribs twisted in opposite directions, substantially as and for the purpose specified.

In testimony that I claim the above, I have hereunto subscribed my name in the presence of two witnesses.

JULIUS H. SCHLAFLY.

Witnesses:
ED LANGENBACH,
J. A. JEFFERS.