

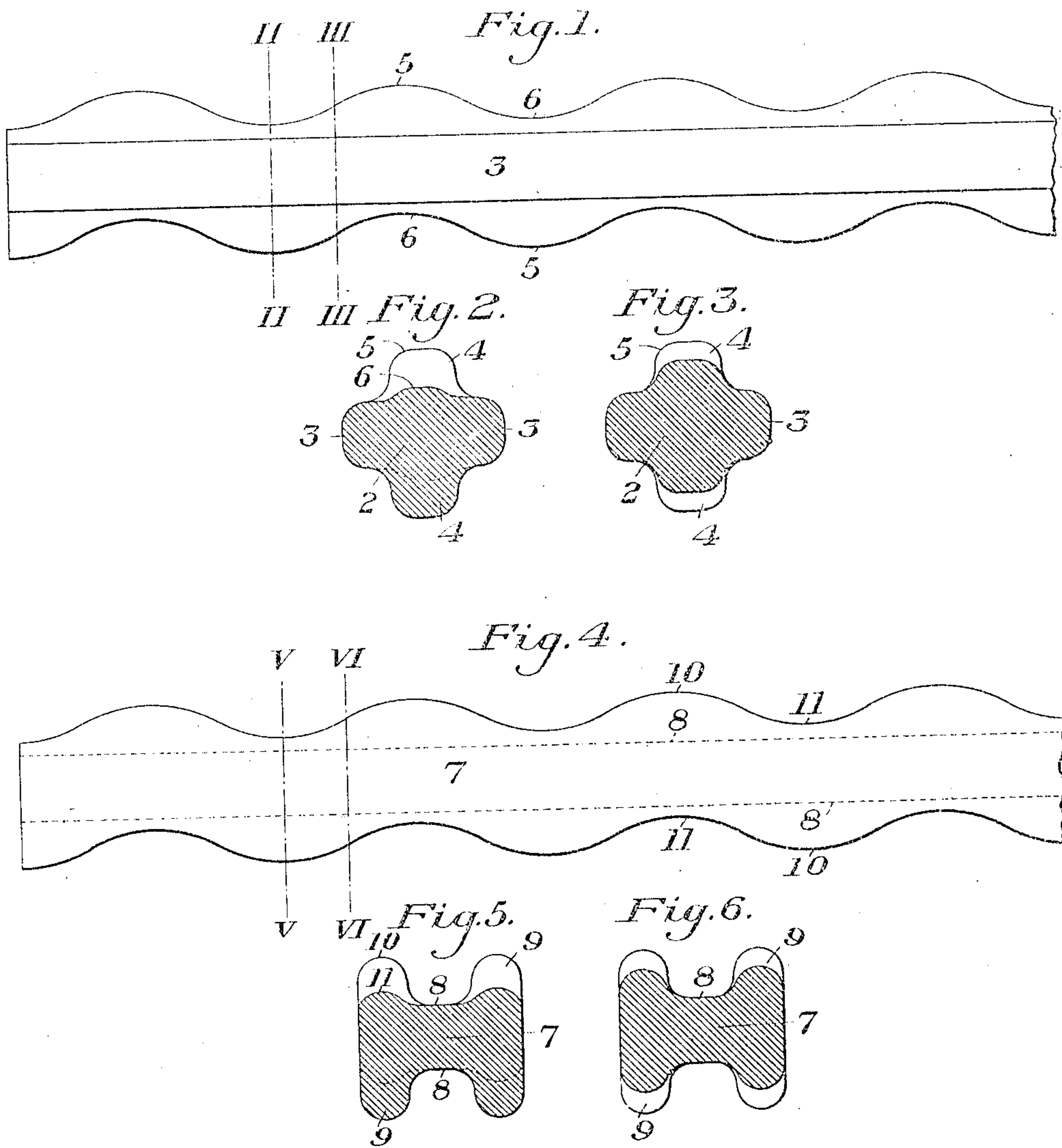
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E. E. SLICK.

BAR FOR REINFORCED CONCRETE CONSTRUCTION.

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WITNESSES

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UNITED STATES PATENT OFFICE.

EDWIN E. SLICK, OF PITTSBURG, PENNSYLVANIA.

BAR FOR REINFORCED CONCRETE CONSTRUCTION.

No. 882,273.

Specification of Letters Patent.

Patented March 17, 1908.

Application filed April 20, 1907. Serial No. 369,272.

To all whom it may concern:

Be it known that I, EDWIN E. SLICK, of Pittsburgh, Allegheny county, Pennsylvania, have invented a new and useful Bar for Reinforced Concrete Construction, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which:—

Figure 1 is a side view showing one form of my improved bar; Fig. 2 is a sectional end view of the same on the line II—II of Fig. 1; Fig. 3 is a similar sectional end view on the line III—III of Fig. 1; Fig. 4 is a side view of a modified form of bar; Fig. 5 is a sectional end view on the line V—V of Fig. 4; and Fig. 6 is a similar sectional end view on the line VI—VI of Fig. 4.

My invention relates to metal tension members or bars used in metal concrete constructions and the object of the invention is to provide a bar of such shape as will prevent slipping or movement between the bar and the concrete surrounding it and of such cross section as can be easily and cheaply rolled in making the bar.

A further object of the invention is to provide a bar of substantially uniform cross-sectional area throughout its length by which the maximum strength of the metal in the bar is utilized.

In Figs. 1, 2 and 3, I show a bar having a rectangular body portion 2, two sides of which have parallel plane faces 3, 3, the other two sides having flanges 4, 4 projecting outwardly with their outer edges corrugated, the top 5 of the corrugation on one of the edges being opposite the bottom 6 of the corrugation on the opposite edge.

In Figs. 4, 5 and 6, the bar has a rectangular body portion 7, two of whose sides have parallel plane faces 8, 8 with two flanges 9 projecting outwardly from each of the other two sides of the bar. The edges of the flanges 9, 9 are corrugated, the top portions 10 of the corrugations on one side of the body portion 7 being opposite the bottom portions 11 of the corrugations on the opposite side of the body of the bar.

By making the reinforcing bar as shown in the drawings, the bar can be easily and cheaply rolled and the corrugated edges provide a firm bond between the bar and the concrete in which it is embedded and prevent movement of the bar relative to the concrete. The bar is of substantially uni-

form cross sectional area, thus giving a maximum strength with a minimum amount of metal.

Modifications in the cross-section of the bar and the size and shape of the corrugations may be made without departing from my invention.

I claim:—

1. A concrete reinforcing bar having a central body portion and a plurality of flanges projecting beyond the body portion, at least two of said flanges being corrugated in the direction of their projection and the edges of the corrugated flanges being parallel: substantially as described.

2. A concrete reinforcing bar having a central body portion and a plurality of flanges projecting beyond the body portion of the bar, at least two of said flanges being corrugated in the direction of their projection, the corrugated flanges being of uniform thickness throughout the length of the bar when measured in a plane at right angles to their plane of projection: substantially as described.

3. A concrete reinforcing bar having a rectangular body portion connecting oppositely projecting flanges extending beyond the body portion on opposite sides of the bar, and two sides of the rectangular body portion having parallel plane faces, at least two of said flanges being corrugated in the direction of their projection with the corrugated face of the flange on one side parallel with that on the opposite side of the body portion of the bar: substantially as described.

4. A concrete reinforcing bar having a rectangular body portion connecting oppositely projecting flanges extending beyond the body portion on opposite sides of the bar, and two sides of the rectangular body portion having parallel plane faces, at least two of said flanges being corrugated in the direction of their projection, the bottom of the corrugation on one flange being opposite the top of the corrugation on the flange on the opposite side of the bar: substantially as described.

5. A concrete reinforcing bar having a rectangular body portion with flat parallel sides, at least two of said sides having outwardly projecting flanges, extending beyond the face of the body portion of the bar, the edges of the flanges being corrugated in the direction of the projection of the flanges and the corrugated edges of the flange on one side

being parallel with that on the opposite side of the body portion of the bar; substantially as described.

6. A concrete reinforcing bar having a
5 rectangular body portion with flat parallel sides, at least two of said sides having outwardly projecting flanges extending beyond the face of the body portion, the edges of the
10 the projection of the flanges, and the bottom

of the corrugations on one side of the bar being opposite the top of the corrugations on the opposite side of the bar; substantially as described.

In testimony whereof, I have hereunto set my hand.

EDWIN E. SLICK.

Witnesses:

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