

(No Model.)

J. A. BOWLER.
TWISTED METALLIC BAND.

No. 494,975.

Patented Apr. 4, 1893.

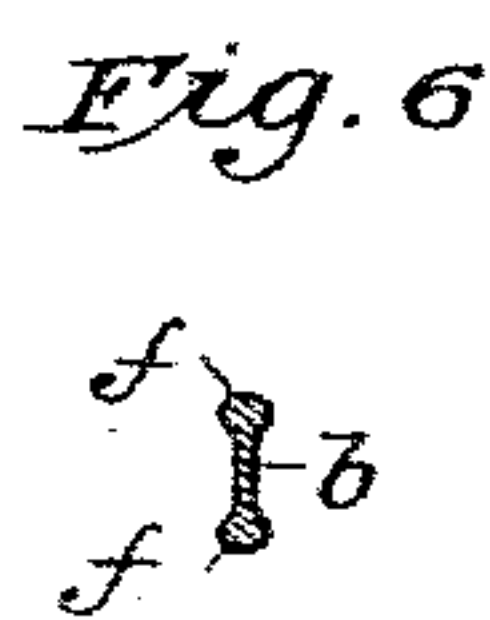
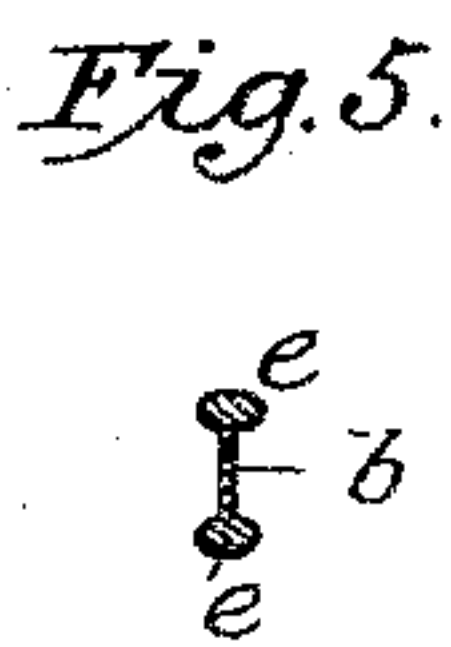
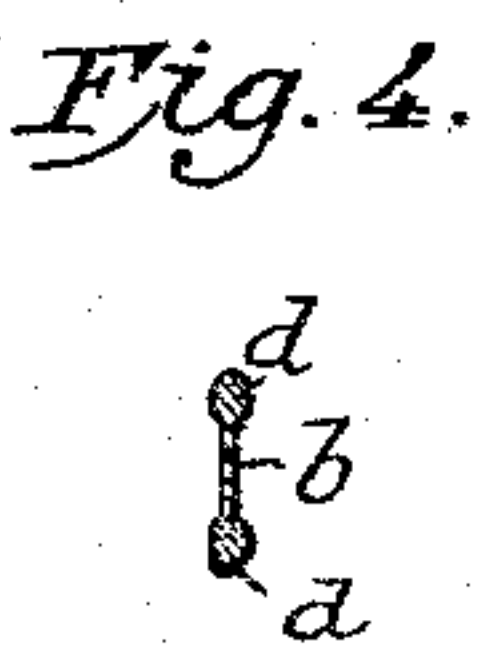
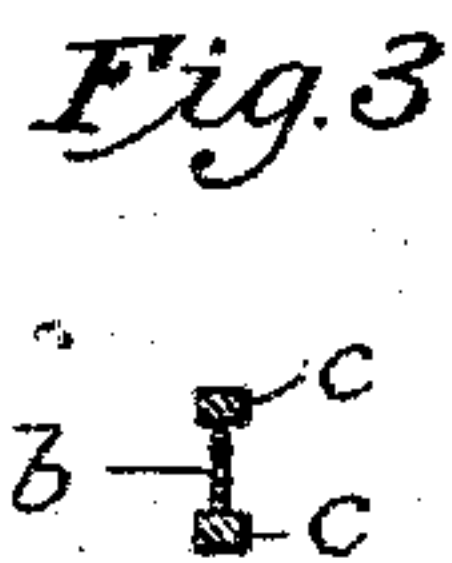
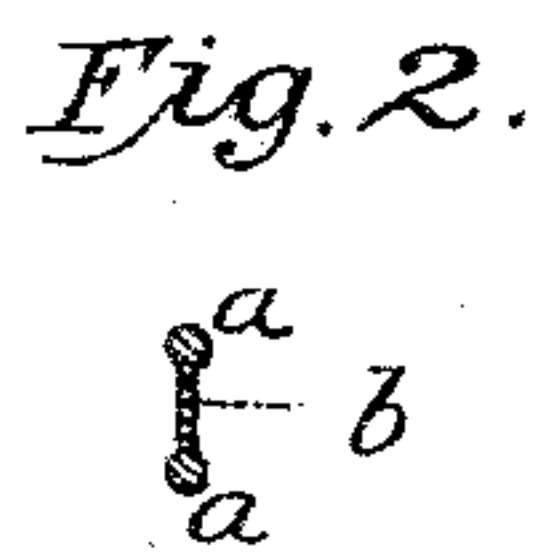
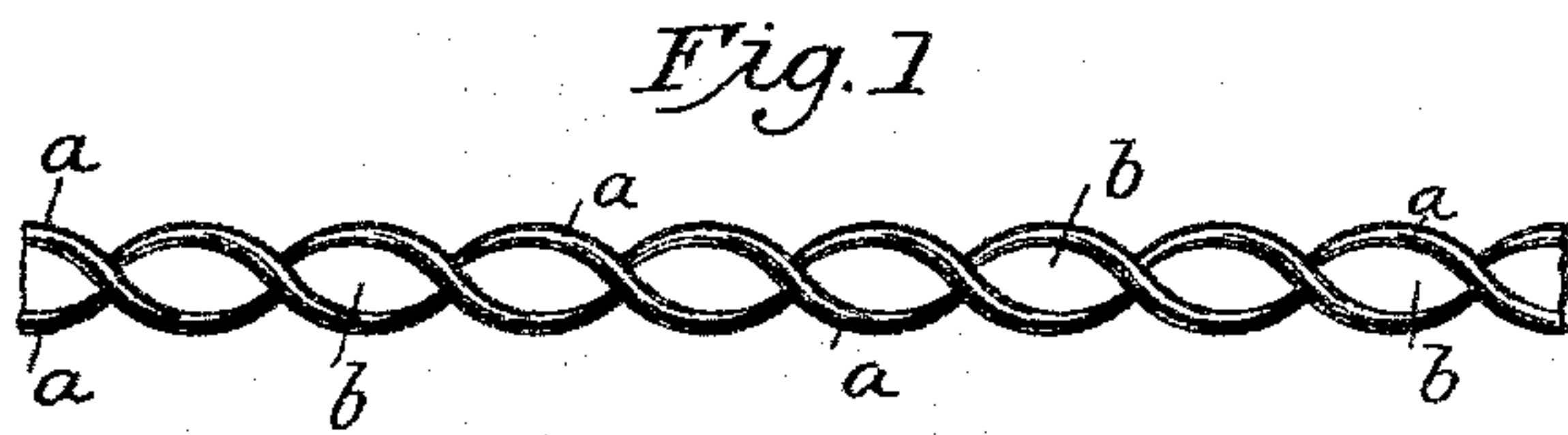
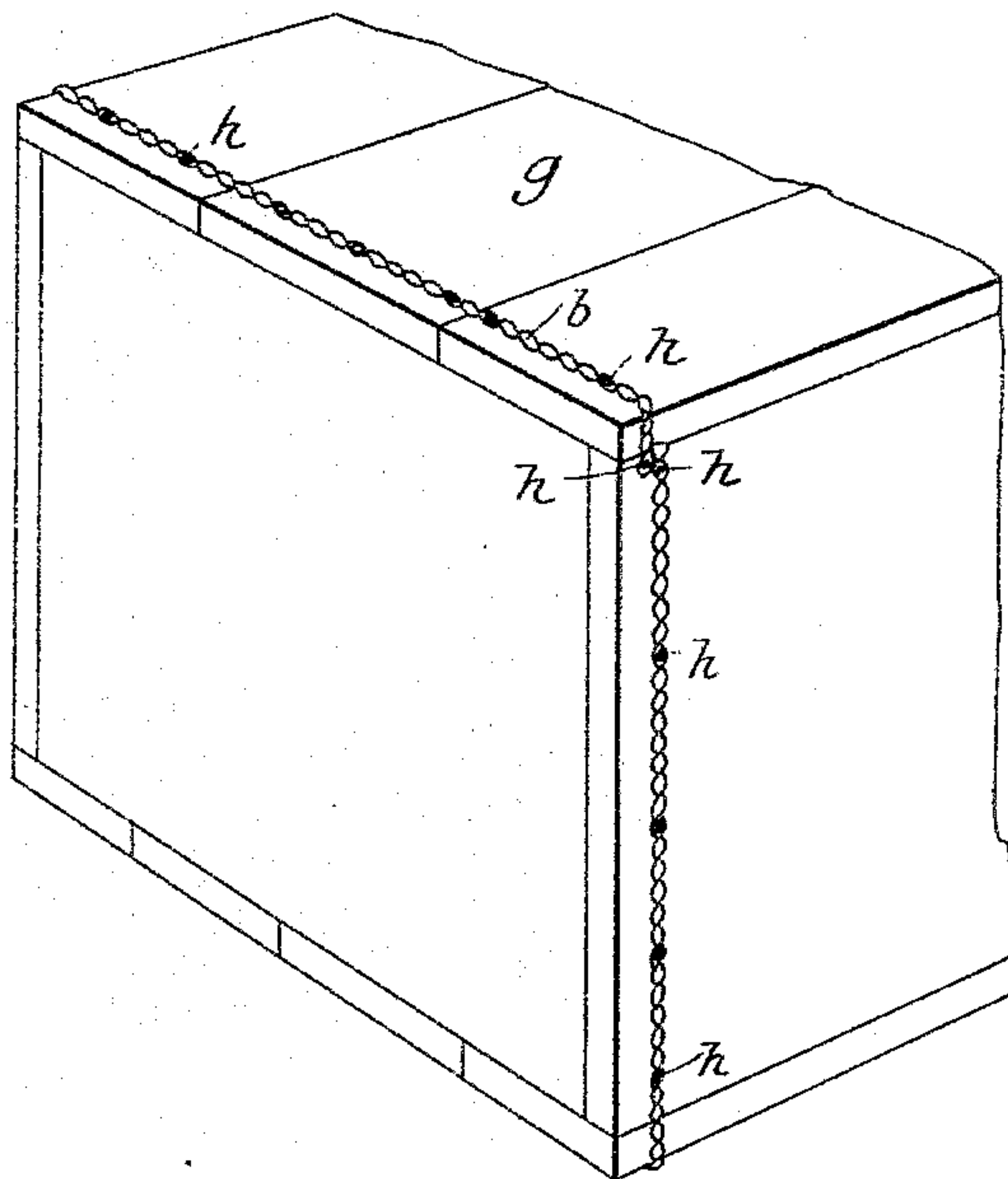


Fig. 7.



Witnesses;
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Washington Miller

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UNITED STATES PATENT OFFICE.

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TWISTED METALLIC BAND.

SPECIFICATION forming part of Letters Patent No. 494,975, dated April 4, 1893.

Application filed April 29, 1892. Serial No. 431,213. (No model.)

To all whom it may concern:

Be it known that I, JOHN A. BOWLER, a citizen of the United States, and a resident of New York, county and State of New York, have invented a new and useful Improvement in Twisted Metallic Bands, of which the following is a specification.

This invention has for its object to produce a twisted metallic band having the general appearance of two wires twisted together and adapted to be used for all purposes that twisted wires are, or can be, applied to.

It consists of a strip of metal made, by means of suitably formed rollers, or otherwise, with a thin central longitudinal web and beaded or thickened edges twisted in such a manner that the two beaded or thickened edges will appear as two pieces of wire twisted together combined and connected together by a thin central web integral therewith.

For industrial purposes my improved twisted band has many advantages over twisted wires of equal weight per given length, in that it is more rigid, has greater tensile strength, will not stretch so readily and is less expensive to manufacture. As a box strap, one of the principal uses for which it is well adapted, the central web will be made sufficiently thin to admit of nails being driven through it without punching or previously forming the nail holes, so that the nails may be driven through the web between the thickened edges anywhere throughout its length and also close to its ends, thereby forcing and holding the extreme ends of the band in close contact with the box or other article to which it is applied.

In the accompanying drawings, to which I will now refer, Figure 1 represents a piece of twisted metal band made according to my invention. Fig. 2 is a transverse section of the strip of metal from which it is formed. Figs. 3, 4, 5 and 6 represent a few modifications, by transverse sectional views, in the shape of strips of metal adapted to be used in making my twisted band, and Fig. 7 represents part of a case or box to which is applied the twisted band as a box strap.

In the manufacture of this article, the metal is formed into long strips or ribbons having

the characteristic form shown in Fig. 2, that is, a thin central web *b* and two thickened or beaded edges *a a* integral therewith, the cross-section of said edges being circular as shown, so that when said strip or ribbon is twisted as shown in Fig. 1, it is, in general appearance, like two round wires twisted together.

Instead of making the edges circular in section they may be square, as shown at *c c*, Fig. 3, or elliptical as shown at Figs. 4 and 5; or the web may join the beaded edges with easy curves as shown at Fig. 6, instead of with sharp corners as shown in the other views. These few modifications in the shape of the band are given merely to indicate that any form of section may be adopted in the twisted band, the selection being a matter of taste and somewhat governed by the use to which it is to be applied.

Of the many uses to which this twisted band may be put, I may mention;—for purposes of ornamentation and to make wire fences, for which purpose it is well adapted, being strong, light and easily applied.

The application to a box, *g*, Fig. 7, for binding the same, will be readily understood, the nails *h h*, being driven directly through the web *b* without previously puncturing the same, and by reason of the band being one piece of metal, that is, the beaded edges and central web integral, the nails may be driven through the band close to its ends and have a firm hold therein, as well as protecting the extreme ends by forcing them into the wood.

It will be understood that bands, made as hereinbefore described, have a uniform appearance throughout and on both sides, because the beads or thickened edges extend equally beyond both faces of the central web. It is evident that if the beads, made either solid or hollow, project only on one side of the strip leaving the other side flat and plain, that the strip, when twisted, will, for many purposes, be as useful as if it had the beads on both sides.

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

1. A twisted solid metal band consisting of an unbroken central web and beaded edges.

2. A twisted metal band having beaded or thickened edges projecting on both sides of a thin central unbroken web and integral therewith.

5 3. A twisted metal band consisting of two cylindrical or wire edges and a thin central unbroken web connecting said edges and integral therewith.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 23d day of April, 1892.

JOHN A. BOWLER.

Witnesses:

FRANK THOMPSON,
OTTO ZIMMERMAN.