F. POWER.

TIRE.

APPLICATION FILED MAR. 4, 1910.

1,002,604. Patented Sept. 5, 1911.

Fig. 1.

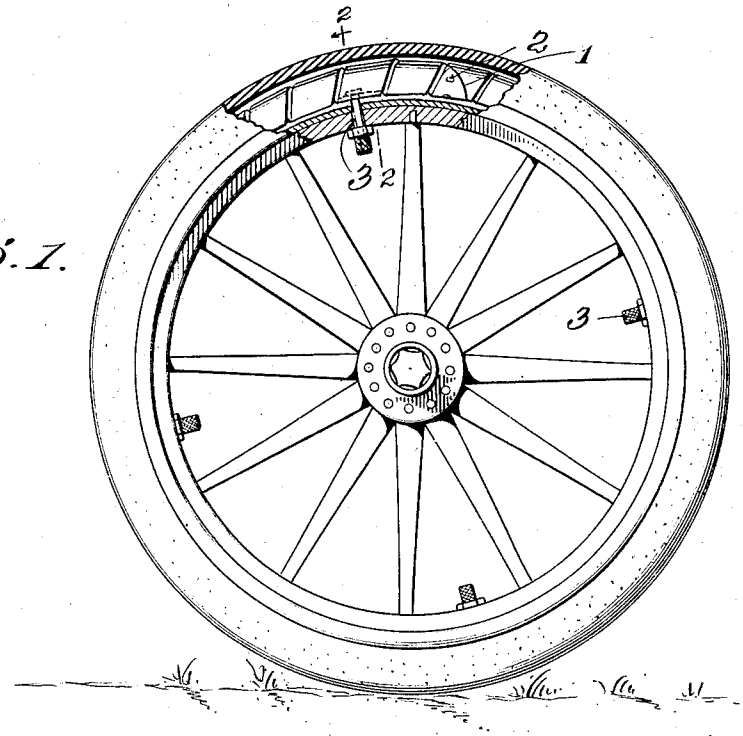
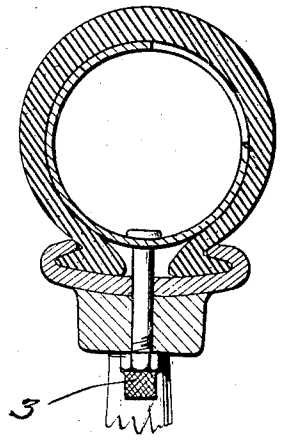


Fig. 2.



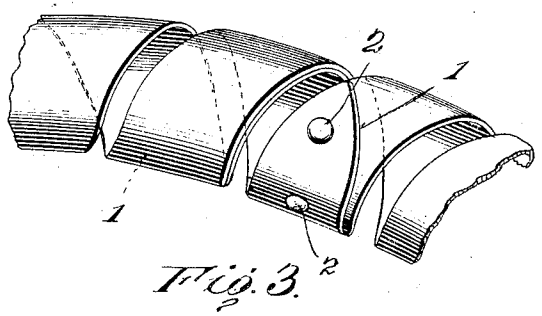


Fig. 3.

Witnesses

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UNITED STATES PATENT OFFICE.

FARINGTON POWER, OF KANSAS CITY, MISSOURI.

TIRE.

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To all whom it may concern:

Be it known that I, FARINGTON POWER, citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Tires, of which the following is a specification.

This invention comprehends certain new and useful improvements in resilient wheels and tires, and the invention has for its primary object a simple, durable and efficient construction of resilient means for use as a substitute for the ordinary rubber inner tubes which are so liable to become punctured, be subject to a "blow-out" or be otherwise damaged.

To this end the invention consists essentially in a spirally wound circular spring adapted to be used with any desired or conventional type of outer shoe or casing to take the place of the ordinary rubber inner tube. The spring possesses all desired resiliency without being open to the objectionable features incidental to rubber inner tubes as before mentioned. And the invention consists in certain details of construction that I shall hereinafter fully describe and claim.

For a full understanding of the invention, reference is to be had to the following description and accompanying drawings in which:

Figure 1 is a side elevation of a wheel equipped with the resilient spiral band forming my invention, part of the outer casing or shoe being broken away. Fig. 2 is a transverse sectional view of the tire, the section being taken approximately on the line 2—2 of Fig. 1. Fig. 3 is a perspective view of a portion of the band.

Corresponding and like parts are referred to in the following description and indicated in all the views of the accompanying drawings by the same reference characters.

My improved tire embodies a single strip of spirally wound flat metal, such as spring steel, the ends of the strip being formed with beveled side edges, as indicated at 1, and being riveted together, as indicated at 2, the convolutions of the strip being open or spaced from each other and one end overlying one convolution and the other end lying inside of the next convolution. By beveling the ends of the strip where they are riveted, the resiliency of the strip is not detracted from, as would be if there were two full overlaps where the ends join.

It is to be understood that my improved spirally wound metal inner tube may be secured to the felly or rim of the wheel in any desired way. For instance, anchor bolts 3 may extend through the felly and rim of the wheel between the flanged edges of the outer shoe or casing and through the spiral tube, any number of these bolts being employed and arranged at any desired intervals.

From the foregoing description in connection with the accompanying drawing, it is evident that the spring metal spiral tube of my invention may be very easily constructed and that it will last a much longer time than the ordinary rubber inner tubes, my device being practically indestructible and not subject at all to the "blow out effects." Obviously if the outer shoe or casing should become worn, torn or otherwise unfit for use, the wheel equipped with my invention would still be serviceable.

It is of course to be understood, that the invention is applicable for use with wheels of all vehicles such as horse-drawn vehicles, automobiles, motor trucks or the like.

Having thus described the invention, what is claimed as new is:—

The herein described tire embodying a spirally wound strip of flat metal, the convolutions of the strip being open or spaced from each other, the ends of the strip being riveted together and the riveted ends being tapered toward their extremities with beveled side edges, one end overlying one convolution and the other end lying inside of the next convolution.

In testimony whereof I affix my signature in presence of two witnesses.

FARINGTON POWER. [L. S.]

Witnesses:

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