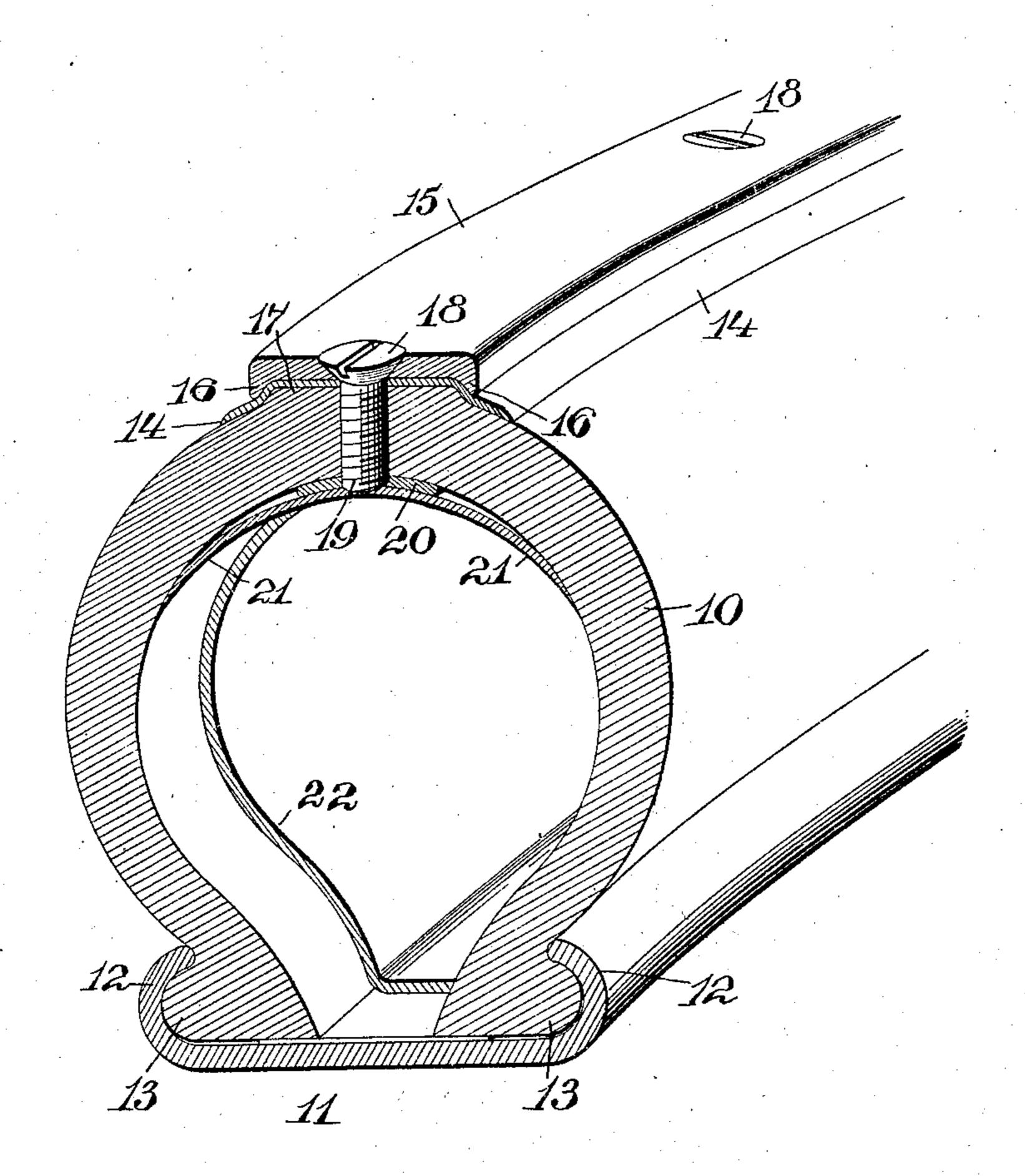
S. S. CHILDS. ARMOR FOR TIRES. APPLICATION FILED MAR. 12, 1909.

943,002.

Patented Dec. 14, 1909.



WITNESSES: M. Johnson. Samuel & Childs

BY

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UNITED STATES PATENT OFFICE.

SAMUEL S. CHILDS, OF BERNARDSVILLE, NEW JERSEY.

943,002.

Specification of Letters Patent. Patented Dec. 14, 1909.

Application filed March 12, 1909. Serial No. 482,887.

To all whom it may concern:

Be it known that I, SAMUEL S. CHILDS, a citizen of the United States, residing at Bernardsville, in the county of Somerset and 5 State of New Jersey, have invented certain new and useful Improvements in Armor for Tires; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others 10 skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to figures of reference marked thereon, which form a part of this specification.

This invention relates to an improved tire, and is designed to provide a tire that has a strip of armor, preferably in the form of a metallic ring, fitted to the outside of the shoe of the tire, and a metallic ring lining 20 the inside of the shoe of the tire, and screws or similar means passing through from the outer ring into the inner ring and securing them together through the shoe so that there is no longitudinal movement, neither is there 25 any transverse movement of the rings on the shoe.

The invention is illustrated in the accompanying drawing, in which the figure is a sectional perspective showing the parts as-

30 sembled. The improved tire consists of a shoe 10 which can be secured, in any well known way, to the rim of a wheel to which the tire is attached, the preferred form of fastening 35 being through the overturned or clenching portions 12 fitting over the ribs 13 of the shoe. The shoe is provided, on its periphery, with a protecting strip 14, preferably of leather, over which is placed the metallic 40 ring 15 which preferably has the flanges 16 on either side thereof, which flanges fit down over the strip 14 and hold it in place thereon, the flanges 16 forming a channel iron which approximately fits the raised portion

17 on the periphery of the shoe. The ring 45 is perforated with the countersunk perforations 18 through which pass the screws 19, the heads of the screws fitting down in the perforations so as to make a flush surface. The screws enter a ring 20 which is placed 50 on the inner side of the shoe and which has screw-threaded perforations therein which receive the screws after they pass through the shoe. The inner tube 22 fits inside of the shoe, and to prevent its being chafed by 55 the ends of the screws or by the ring 20, an apron or shield 21 is placed under the screws and the ring to fit between them and the inner tube 22 and thereby make a broad surface on which the inner tube 22 rests, and 60 there is no subsequent chafing of the parts, with its accompanying destruction of the inner tube. The armor for the tire prevents lateral skidding, and also serves as a protection against puncture.

Having thus described my invention, what I claim is:—

A tire comprising a shoe having a slightly raised tread, a metallic ring on the tread, the ring having its two edges provided with 70 continuous flanges to form a channel to receive the tread, an inner metallic ring on the inside of the shoe and opposite the first ring, the outer ring having countersunk perforations, the inner ring having screw-threaded 75 perforations, and screws having their heads in the countersunk portions of the outer ring and entering the screw-threaded perforations of the inner ring to secure the parts together.

In testimony, that I claim the foregoing, I have hereunto set my hand this 10th day of March 1909.

SAMUEL S. CHILDS.

Witnesses: E. A. Pell, WM. H. CAMFIELD.