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Patented June 19, 1900.

J. R. SINGER.

FELLY SHIELD FOR VEHICLE WHEELS

(Application filed Dec. 12, 1899.)

(No Model.)

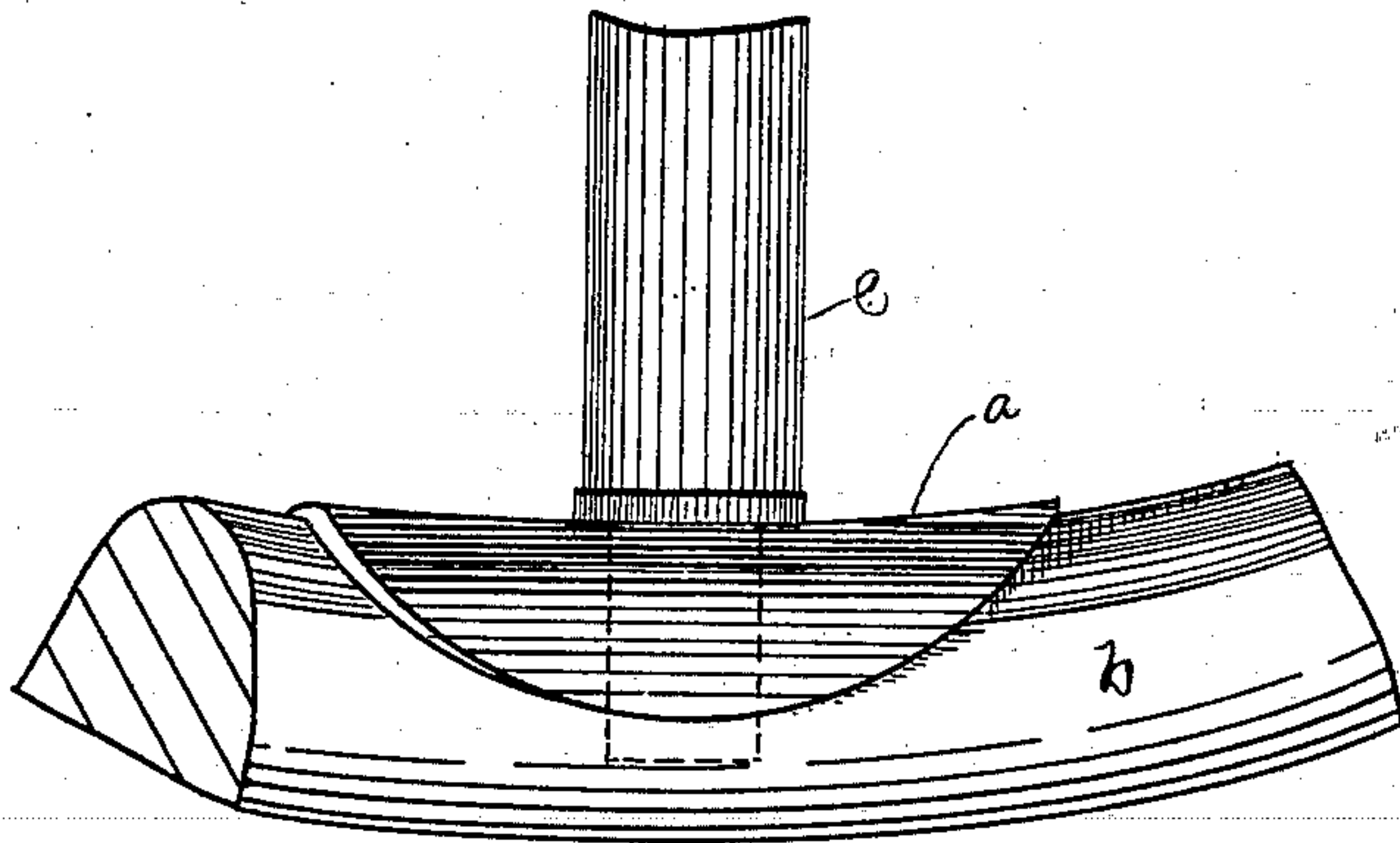


Fig. 1

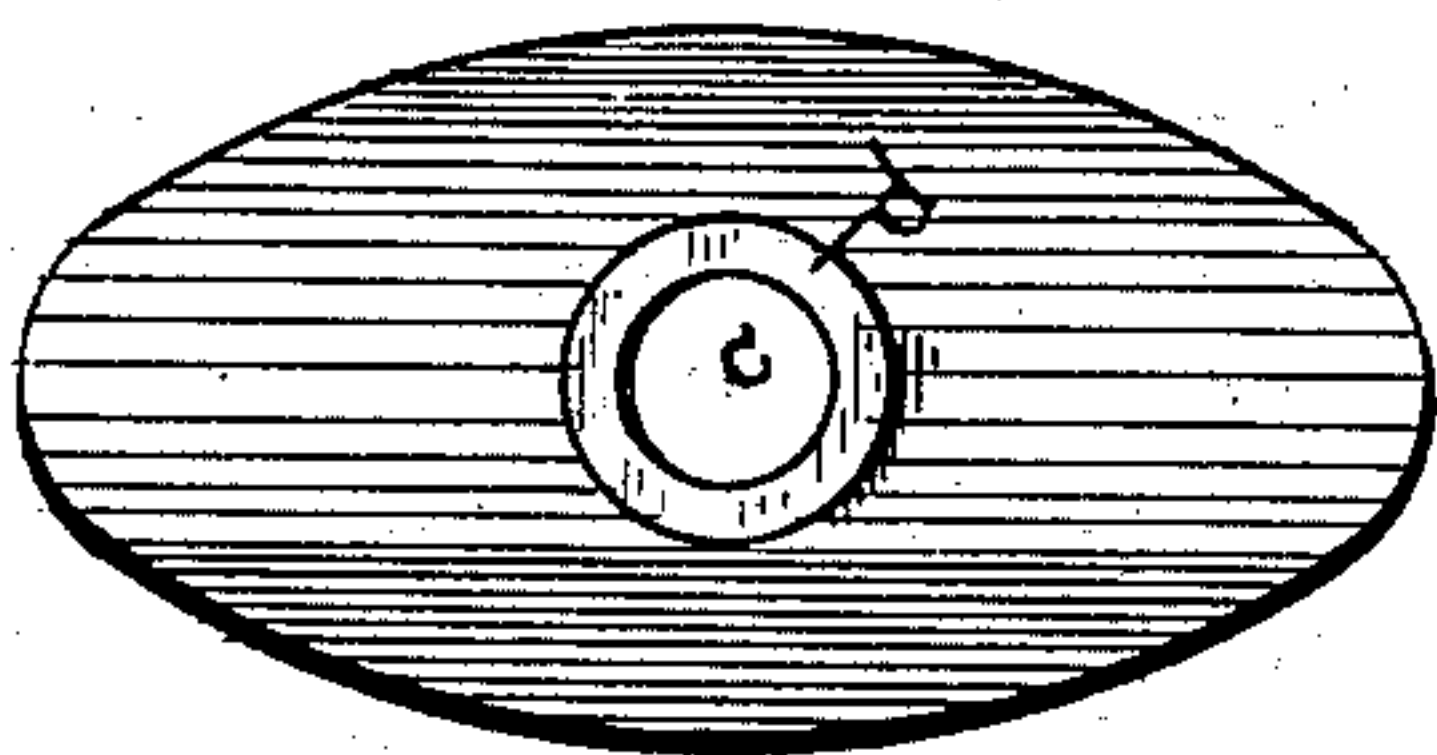


Fig. 2

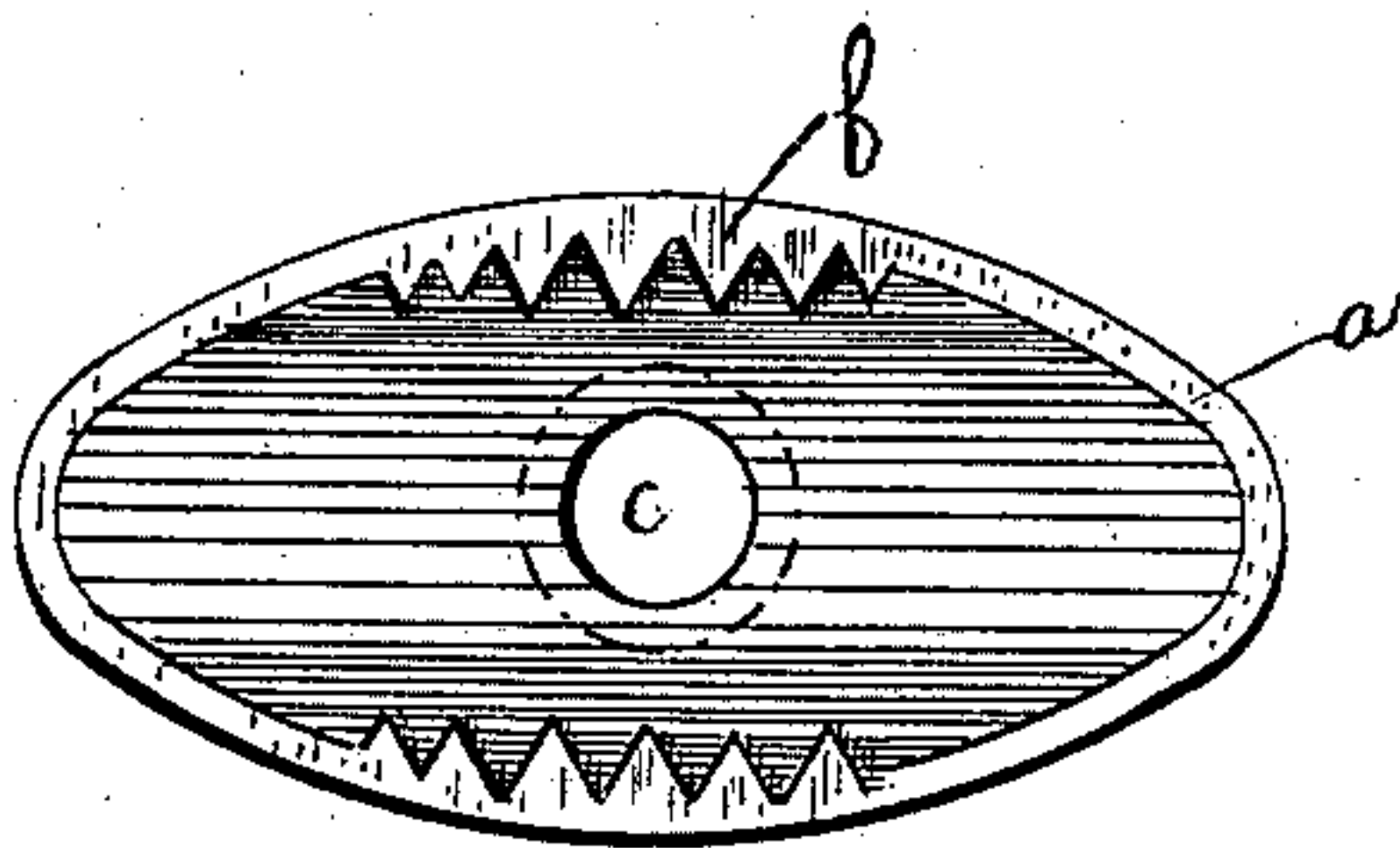


Fig. 3

Witnesses
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UNITED STATES PATENT OFFICE.

JOHN R. SINGER, OF ATLANTA, GEORGIA.

FELLY-SHIELD FOR VEHICLE-WHEELS.

SPECIFICATION forming part of Letters Patent No. 651,981, dated June 19, 1900.

Application filed December 12, 1899. Serial No. 740,128. (No model.)

To all whom it may concern:

Be it known that I, JOHN R. SINGER, a citizen of the United States, residing at Atlanta, in the county of Fulton, State of Georgia, have invented certain new and useful Improvements in Felly-Shields for Vehicle-Wheels; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to vehicle-wheels in general, and more particularly to shields for the fellys thereof; and one object is to provide a shield which will reduce the cost of manufacture of the wheels and which will increase the strength and durability of the wheels when made. I am aware of the fact that many devices of this nature have been placed upon the market, and I find upon practical tests and long experience in the manufacturing of wheels that these devices are all more or less attended with objections incident to contact with water, mud, sand, &c.; and the further object of my invention is to overcome these objections, as well as the object mentioned above.

Referring now to the drawings, in which like letters of reference indicate similar parts in the several views, Figure 1 is a perspective view of a section of wheel-felly to which my invention is applied. Fig. 2 is a top view of my felly-shield. Fig. 3 is a bottom view of the same.

As shown in the drawings, my invention comprises an elliptical plate *a*, bent into arc shape to conform to the inner surface of a wheel-felly *b* and which is rounded at its ends. At the center of the plate *a* is a perforation *c*, surrounded by an upwardly-directed flange

d, the perforation being adapted to receive the tenon of a spoke *e* and the flange being adapted to support the shoulder of the spoke at the termination of the tenon. Formed upon each side of the plate midway of its ends, at its lower edge and extending inwardly, are a number of teeth *f* to secure the shield upon the felly, and when the shield is placed in position it is forced upon the felly, and it is then struck a blow with a hammer on its outer surface, opposite the teeth *f*, to drive them into the wood.

It will be seen from the foregoing description that my invention is adapted for application to wheels of any make and in addition to shielding and protecting the felly forms a shoulder for the spoke. It does not accumulate mud, water, nor sand at the junction with the felly and prevents the loosening and dubbing of the ends of the spokes against the tires. Being very light, it does not materially add to the weight of the rim and at the same time adds to the service and economic construction of the wheel.

Having thus described my invention, what I claim is—

A felly-shield for vehicle-wheels comprising an elliptical plate bent in arc shape, a central perforation in the plate, an upwardly-directed flange surrounding said perforation, and teeth formed at opposite sides of the shield midway of its ends, and projecting inwardly.

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

JOHN R. SINGER.

Witnesses:

M. A. HALE,

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