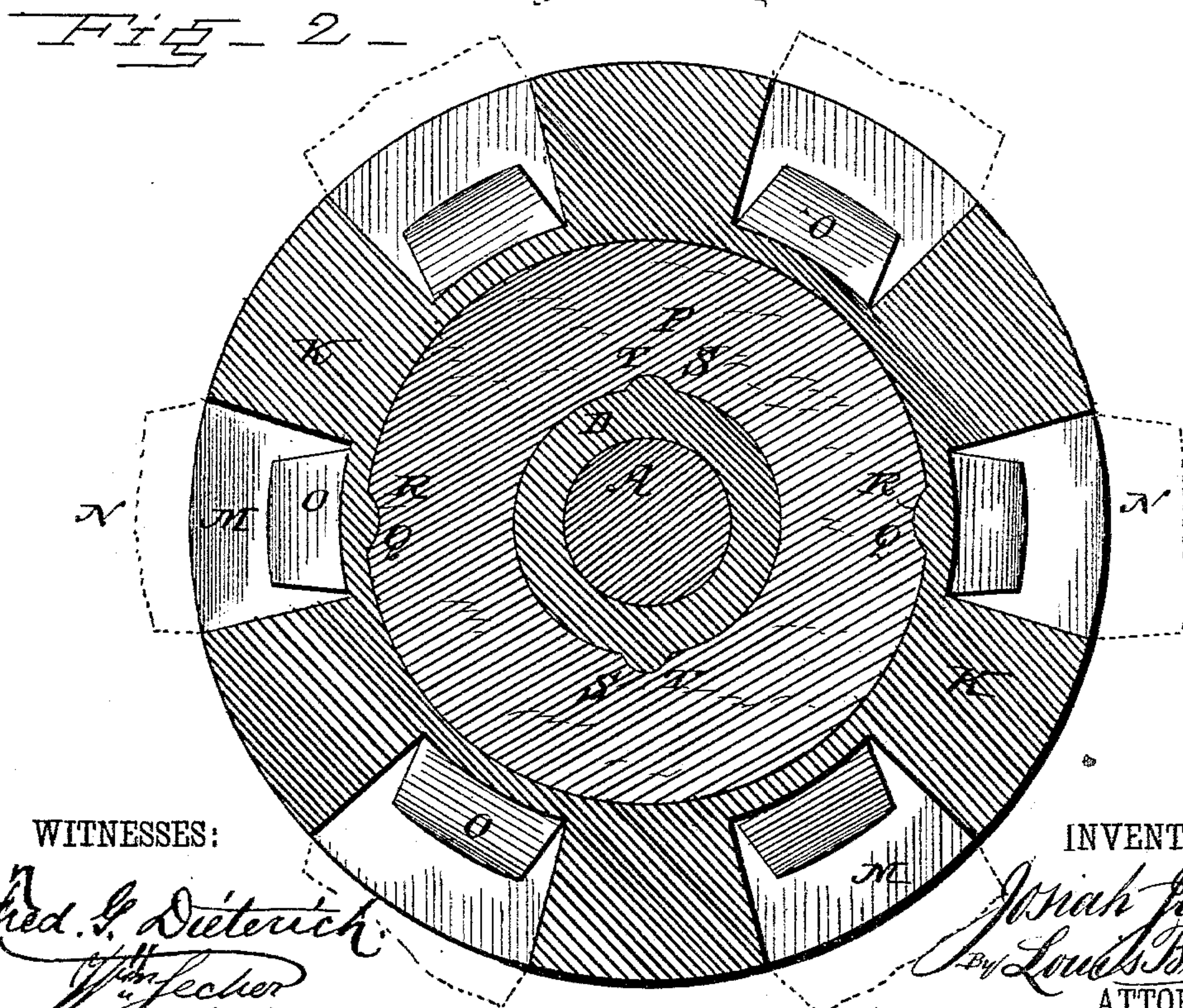
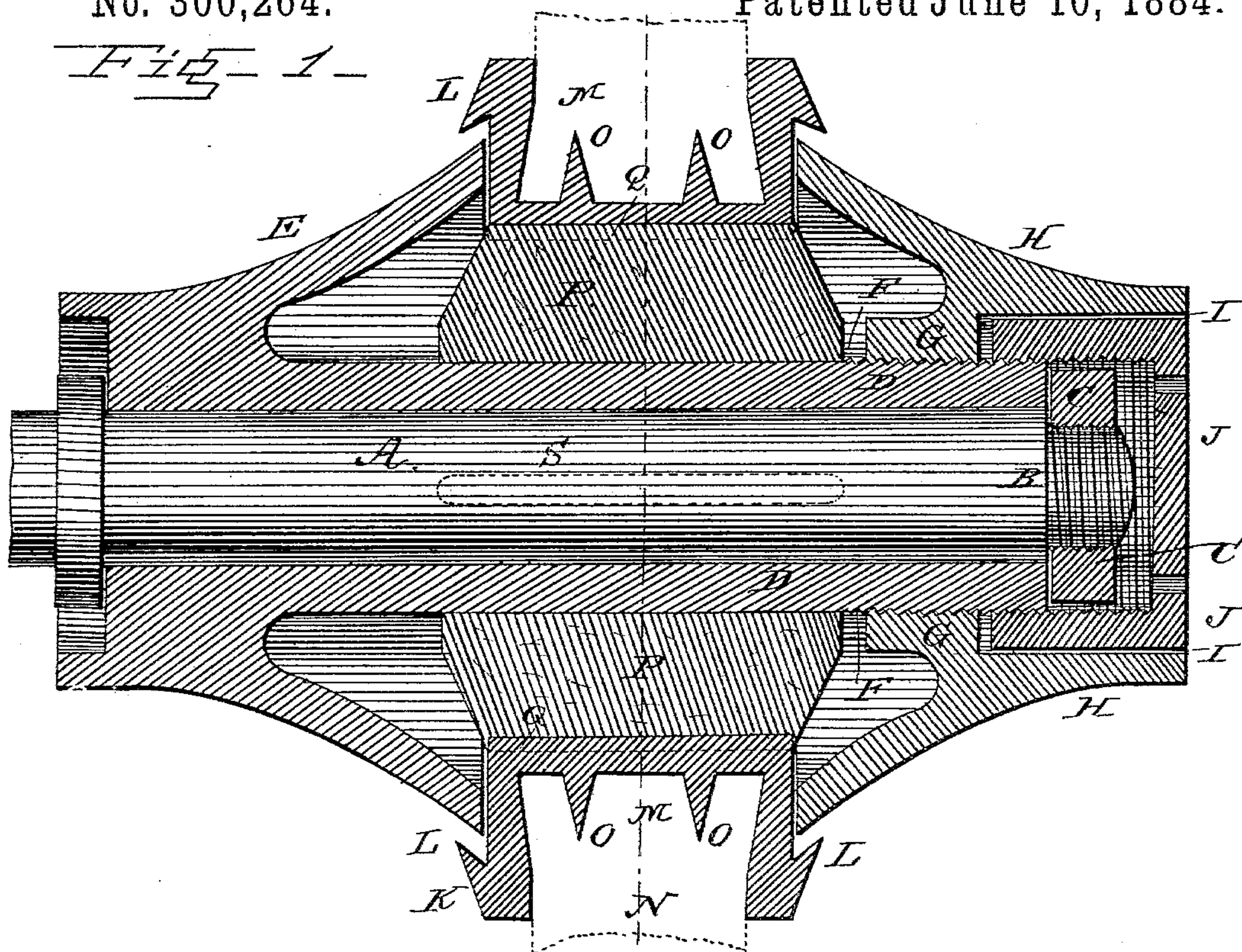


(No Model.)

J. JONSON.
VEHICLE HUB.

No. 300,264.

Patented June 10, 1884.



WITNESSES:

Med. L. Diäterich
Vizelechner

INVENTOR.

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ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOSIAH JONSON, OF TOLEDO, OHIO, ASSIGNOR OF ONE-HALF TO THOMAS
MATTHEW O. NEILL, OF SAME PLACE.

VEHICLE-HUB.

SPECIFICATION forming part of Letters Patent No. 300,264, dated June 10, 1884.

Application filed January 26, 1884. (No model.)

To all whom it may concern:

Be it known that I, JOSIAH JONSON, a citizen of the United States, and a resident of Toledo, in the county of Lucas and State of Ohio, have invented certain new and useful Improvements in Vehicle-Hubs; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to
10 which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a longitudinal vertical section through a portion of a vehicle-axle provided with my improved hub, and Fig. 2 is a cross-section on line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts in both the figures.

20 My invention has relation to vehicle-hubs; and it consists in the improved construction and combination of parts of the same, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter
25 A indicates the spindle of the axle, the outer end, B, of which is reduced and screw-threaded for the reception of a nut, C, the inner face of which bears against the outer end of a sleeve, D, fitting upon and turning upon
30 the spindle, and having a funnel-shaped or flaring flange, E, projecting outward at its inner end. The outer end of the sleeve D is screw-threaded at F, and a female-threaded sleeve, G, having a flaring funnel-shaped
35 flange, H, projecting inward, fits and turns upon the said threaded end, and the outer portion of the bore of the sleeve is smooth and recessed at I, forming a space for the reception of a female-threaded cap, J, which fits
40 and turns upon the outer threaded part of the long sleeve or box D, preventing sand or impurities from entering between the box and the spindle.

45 K is a ring having inwardly-projecting flanges, L, upon the outer edges of its faces, and having sockets M in its periphery for the reception of the spokes N, each socket being provided with two, or more or less, wedge-shaped projections, O, having their edges

transverse to the axles, which wedges serve to spread the ends of the spokes when they are introduced into the sockets, preventing them from slipping out of the same. Inside this ring is placed an elastic ring, P, of rubber or similar elastic material, which is slipped upon the box or long sleeve, and the said elastic ring has recesses Q in its outer side adapted to fit over projections R upon the inner side or the bore of the socketed ring, and recesses S in its inner side or bore, which fit upon projections T upon the outer side of the long box, which recesses and projections prevent the socketed ring and the elastic ring from slipping. It will be seen that as the wheel is revolved the elastic ring will yield to the weight upon the axle at its lowest point, the flanges upon the socketed ring preventing the same from being raised too high by striking the flanges upon the inner box and upon the threaded sleeve, which flanges bear with their edges against the faces of the socketed ring, the elastic ring thus assisting the springs in yielding to the unevenness of the road traveled over, the wheel revolving eccentrically to the axle, while the box revolves upon the spindle. It will also be seen that the funnel-shaped flanges bearing with their edges against the sides of the socketed ring will brace the latter and prevent impurities from entering into the cavity formed inside them.

I am aware that spoke-sockets have been provided with wedges in their bottoms for the purpose of expanding the ends of the spokes, and I am also aware that elastic rings have been interposed between the sleeve turning upon the spindle and the spoke-receiving ring, and I do not wish to claim such constructions, broadly; but

What I claim is—

90 The combination of a box fitting upon the axle-spindle and having an outwardly-projecting funnel-shaped flange upon its inner end and longitudinal flanges upon the outer side of the box, an elastic ring fitting upon the box and having longitudinal grooves upon its inner and outer sides, a socketed spoke-receiving ring fitting upon the elastic ring having

longitudinal flanges upon its inner sides and provided with inwardly-pointing flanges upon the outer edges of its faces, and a sleeve having an inwardly-projecting funnel-shaped flange and fitting upon the outer end of the box, clamping the socketed ring between its flange and the flange upon the box, as and for the purpose shown and set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

JOSIAH JONSON.

Witnesses:

JAMES E. PILLIOD,
D. R. AUSTIN.