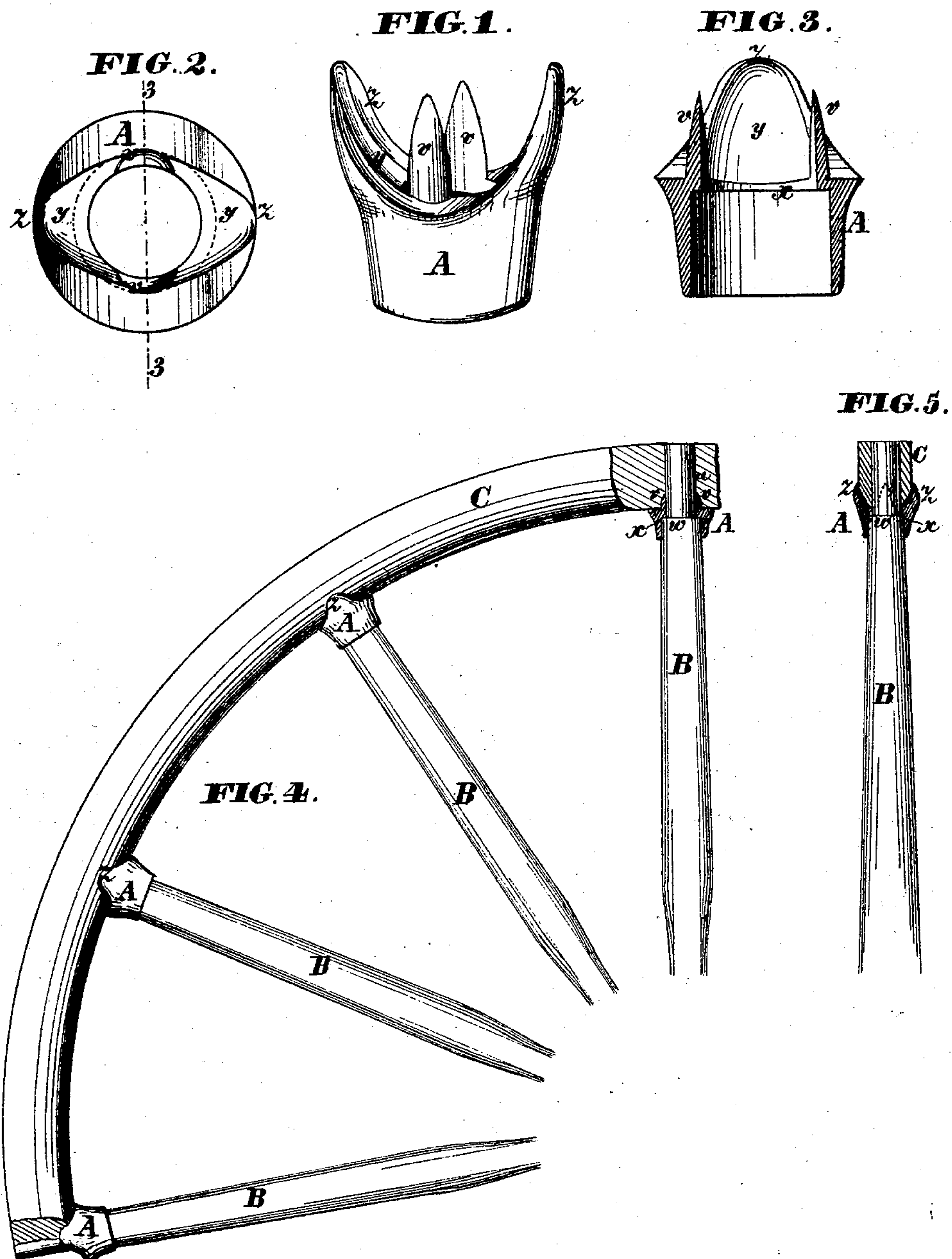


**D. A. SPRAGUE.**  
**Spoke-Sockets for Vehicles.**

No. 151,930.

Patented June 9, 1874.



WITNESSES

*Walter Allen*  
*H. T. Tanner.*

INVENTOR

*Daniel Arnold Sprague*  
 By *Knights Bros* Attorneys

# UNITED STATES PATENT OFFICE.

DANIEL A. SPRAGUE, JR., OF POLAND, NEW YORK.

## IMPROVEMENT IN SPOKE-SOCKETS FOR VEHICLES.

Specification forming part of Letters Patent No. **151,930**, dated June 9, 1874: application filed April 27, 1874.

*To all whom it may concern:*

Be it known that I, D. A. SPRAGUE, Jr., of Poland, in the county of Herkimer and State of New York, have invented an Improved Support for Fellys of Wheels, of which the following is a specification:

My invention relates to a support for the felly of a wheel, placed on the tenon between the spoke and said felly. It consists, first, in a ferrule, with clips at top, and of cylindrical form at bottom, having an inward projection between the cylindrical part and the cup-shaped top, through which the tenon of the spoke passes until the ledge rests upon the shoulder of the spoke. It consists, secondly, in two wedges, projecting upwardly from the inwardly-encircling ledge, for the purpose of supporting the tenon of the spoke where it enters the felly-mortise, and arranged to press endwise of the grain. The object of this invention is to provide a support for the felly and tenon at the place of juncture, and to brace them and prevent them from splitting or breaking.

Figure 1 is a perspective view of my improved felly-support. Fig. 2 is a top view of the same. Fig. 3 is a vertical longitudinal section of the same on the line 3 3, Fig. 2. Fig. 4 represents a portion of a wheel with the ferrule attached. Fig. 5 represents a transverse section.

A represents the improved ferrule; B, a spoke, and C the felly of an ordinary wheel.

*z* are two clips, projecting upwardly on each side from the ferrule. These clips have concavities *y*, which cause said clips to clasp the felly more at the edge. *x* represents a ledge or projection encircling the inner upper margin of the lower half of the ferrule. This ledge rests upon the shoulder *w* of the spoke, sliding, as it will be seen, over the tenon of the same. *v* represents upwardly-projecting wedges, which bear against the ends of the mortise *u* of the felly endwise of the grain. The mortise is of oval form at its inner end.

It will be seen that this ferrule adds much strength at the juncture of the spoke with the felly, keeping either or both from splitting or breaking.

The support is made of malleable iron; or it can be cast in one piece.

I am aware that sockets have before been made with a thimble to receive the felly-tenon.

I claim as my invention—

1. The ferrule A, having clips *z*, encircling-ledge *x*, and wedges *v*, substantially as described.

2. The wedges *v* of the ferrule for giving additional support sidewise to the tenon, in combination with the oval mortise of a felly, substantially as described.

D. A. SPRAGUE, JR.

Witnesses:

FELLUS PRINDLE,  
THOMAS OWENS.