P. MURPHY.

Hubs for Carriage Wheels.

No. 141,659. Patented August 12, 1873

Fig 1.

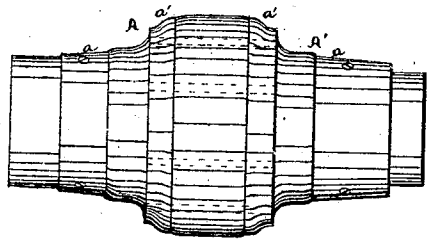


Fig 2.

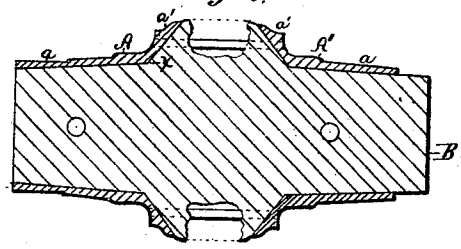
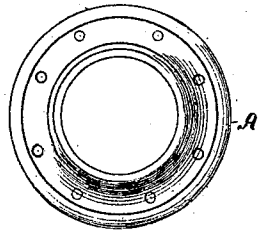


Fig 3.



Witnesses.

R. F. Hoole

H. Carlmichael

Inventor.

Patrick Murphy by

Dyer, Beadle & Co.

Attys.

UNITED STATES PATENT OFFICE.

PATRICK MURPHY, OF SOUTH AMESBURY, MASSACHUSETTS.

IMPROVEMENT IN HUBS FOR CARRIAGE-WHEELS.

Specification forming part of Letters Patent No. **141,659**, dated August 12, 1873; application filed March 18, 1872.

To all whom it may concern:

Be it known that I, PATRICK MURPHY, of South Amesbury, in the county of Essex and State of Massachusetts, have invented a new and useful Improvement in Wheel-Hubs; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings and to the letters of reference marked thereon.

This invention has for its object the production of an improved wheel-hub, which, by reason of its specific construction, shall possess certain marked advantages, as will be fully described hereinafter.

In the drawings, Figure 1 represents a side elevation of my improved hub; Fig. 2, a longitudinal sectional elevation; and Fig. 3, an end elevation.

To enable others to make my improved hub, I will now proceed to describe minutely its construction.

A A′ represent cast-metal shells peculiarly constructed, as follows: *a* represents the horizontal or band portion, which tapers slightly from its outer edge to the point *x*. *a′* represents the upright or ring portion, which is inwardly inclined from the point *x* to its termination, as shown. B represents the wood part of the hub, which is cut, by any suitable means, in such manner that its end portions correspond in form with the shape of the shells, as clearly indicated in Fig. 2. The shells are pressed into position upon the wood portion, and are securely held by riveted rods located at suitable intervals, as indicated in Figs. 2 and 3.

The advantages of this construction are as follows: The inclined portions *a′* of the shells, being drawn together and securely held by rivets, have a tendency to hold the wood and prevent it from being split when cut for the reception of spokes. The upper edges of the shells give strength to the wood near the cutting-line, while the general shape permits the use of a large central body of such form as is well adapted to resist the strain incidental to the cutting. The band portions of the shells inclose the horizontal portions of the wood, and prevent the same from checking.

By means of this peculiar construction I am enabled to produce hubs as an article of manufacture which will not split while being cut for spokes, and which will not check by exposure.

It is designed in practice to manufacture the hubs in the manner described, and sell them to the trades, the process of cutting them for the spokes and boring them for the boxes being afterward performed when the hubs are needed for use.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

The combination of the shells A A′, having projections *a′ a′*, with the wood B, constructed as set forth.

This specification signed and witnessed this 2d day of March, 1872.

PATRICK MURPHY.

Witnesses:

J. L. NEWTON,

J. D. TOWLE.