

H. N. BROWN.

Improvement in Wheels for Vehicles.

No. 128,358.

Patented June 25, 1872.

Fig. 1.

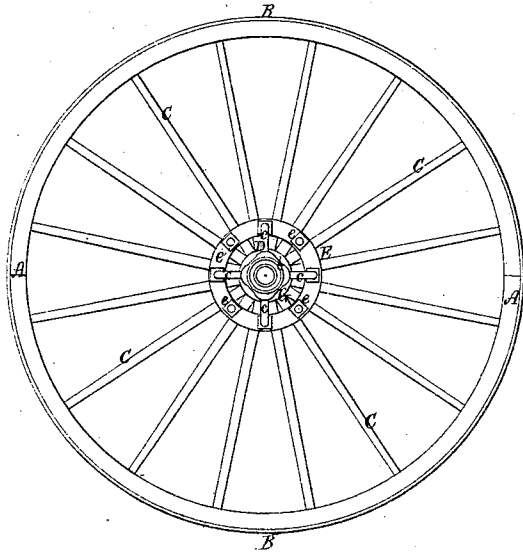


Fig. 2.

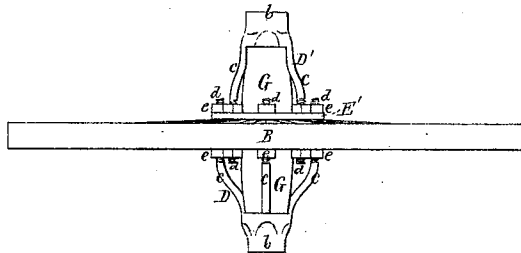
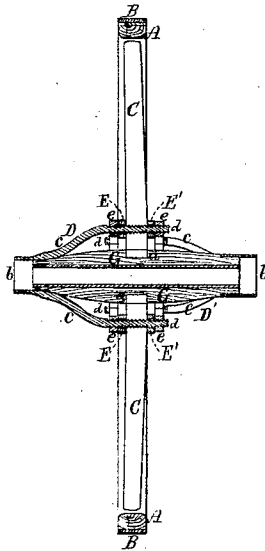


Fig. 3.



Witnesses

S. N. Piper

L. N. Miller

Hezekiah N. Brown.

by his attorney,

R. M. Ledy

UNITED STATES PATENT OFFICE.

HEZEKIAH N. BROWN, OF WHITINGHAM, VERMONT.

IMPROVEMENT IN WHEELS FOR VEHICLES.

Specification forming part of Letters Patent No. 128,358, dated June 25, 1872.

To all persons to whom these presents may come:

Be it known that I, HEZEKIAH N. BROWN, of Whitingham, of the county of Windham, of the State of Vermont, have invented a new and useful Improvement in Carriage-Wheels; and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawing, of which—

Figure 1 denotes a front elevation, Fig. 2 a top view, and Fig. 3 a transverse section, of a wheel provided with my invention, which has reference to the construction of the hub and the mode of securing the spokes thereto.

In the drawing, A denotes the felly, B the tire, and C C C the series of spokes, arranged in the usual manner, each spoke at its inner end being stepped into the body-part G of the hub, or arranged in a groove, *a*, made in and around it. The hub-part G is to be bored lengthwise to hold the metallic sleeve, and the said hub-part, at its opposite ends, is extended and fitted into the tubular caps *b b* of two spiders, D D', formed and arranged as shown. Each spider is composed of a tubular cap, *b*, and a series of brace rods or arms, *c c c c*, extended from it, in manner as represented. Each of their rods goes through two metallic rings, E E', encompassing the hub part G, and

arranged against the spokes, in manner as exhibited in the drawing. Furthermore, each of the said rods or arms has a male screw, *d*, cut on it to receive two screw-nuts, *e e*, arranged against the outer faces of the rings E E', in manner as shown. These screws and nuts serve to clamp the rings firmly against the spokes; also, to draw each spider inward closely upon the hub-part G; also, to dish or crown the wheel, as circumstances may require.

The said spiders and the connection-rings, arranged, constructed, and combined together by screws and nuts, as described, constitute a very strong and advantageous means of securing together the hub-part G and the spokes.

I claim—

1. The combination and arrangement of the two rings, E E', and the two spiders, D D', provided with screws and nuts, as described.

2. I also claim the combination and arrangement of the two rings, E E', and the two spiders, D D', provided with screws and nuts, as described, with the hub-part G and spokes of a wheel, all being substantially as specified.

HEZEKIAH N. BROWN.

Witnesses:

R. H. EDDY,
J. R. SNOW.