

C. H. GUARD.
VEHICLE-HUB.

No. 172,425.

Patented Jan. 18, 1876.

Fig. 1.

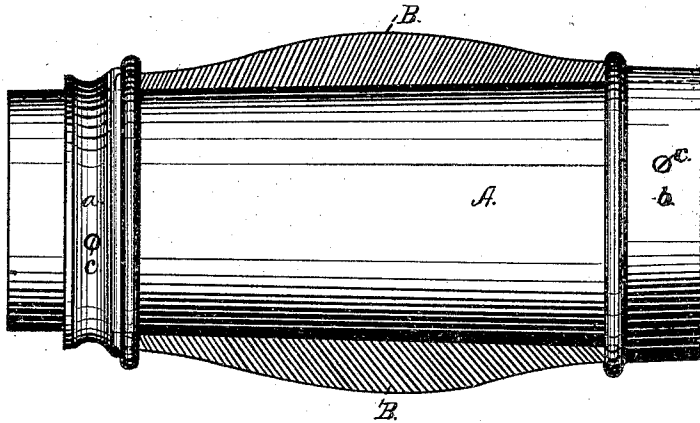
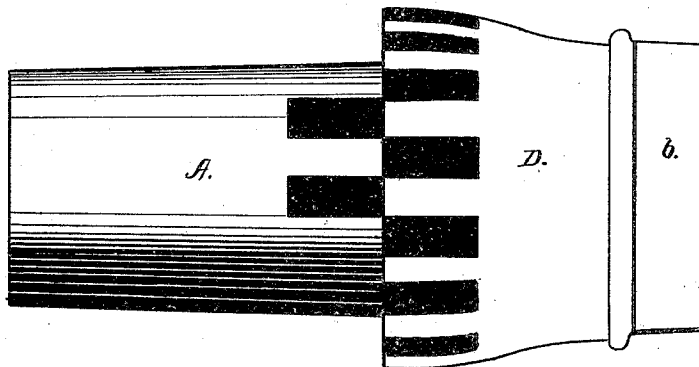


Fig. 2.



Witnesses:
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Chauncey H. Guard
by his Atty
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UNITED STATES PATENT OFFICE.

CHAUNCEY H. GUARD, OF DAYTON, OHIO.

IMPROVEMENT IN VEHICLE-HUBS.

Specification forming part of Letters Patent No. **172,425**, dated January 18, 1876; application filed December 2, 1875.

To all whom it may concern:

Be it known that I, CHAUNCEY H. GUARD, of the city of Dayton, in the county of Montgomery and State of Ohio, have invented a new and useful Improvement in Wagon-Hubs, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings and the letters of reference marked thereon.

The object of this invention is the provision of a vehicle-hub, which shall be, in a measure, elastic, and shall compensate for the shrinking of the spoke-tenons by tightly embracing them at all times.

The improvement consists in forming the hub in two parts—an inner wooden core and an external sleeve of prepared paper—suitably arranged and constructed as will be here-with described, and the invention distinctly pointed out in the claim.

To enable others skilled in the art to which my invention appertains to make and use the same, I would thus describe it, referring to the accompanying drawings, in which—

Figure 1 is a side view of my improved hub, showing a section of the paper sleeve. Fig. 2 is a modification of my invention, which will be referred to hereafter.

A represents the wooden core of the hub. Over this is slipped the sleeve B, made of paper-pulp, and rendered impervious to the action of moisture by any of the processes in use for that purpose. This sleeve has its outer surface conforming to the usual shape of a hub. To hold the sleeve in position, and connect all the parts, two metal bands, *a b*, are slipped one over each end of the sleeve, as is represented in Fig. 1, and held in position by means of screws *c*. The spokes are inserted in the usual manner, and the hub is complete.

The advantages to be derived by the employment of an elastic hub are too obvious to mention, and since paper, as now prepared and rendered water-proof, is cheap and easily formed, it seems especially adapted to the purpose here indicated.

Practically, the whole hub might be made of paper; but I would recommend the above described as the best application of it.

I do not limit myself to the manner of applying the paper, or of connecting it to the hub, as it may be done in various ways. For instance, see Fig. 2, in which D, the sleeve, is divided into two parts, intended to be applied after the spokes are driven into the wooden core by slipping them over each end, and holding them by means of the before-mentioned bands.

Instead of paper, felt, rubber, or any substance of a like nature, similarly elastic, durable, and impervious to moisture, may be used without any material difference in the result.

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

A vehicle-hub, composed of a wooden core and an external sleeve of paper, or its equivalent, suitably connected thereto, and rendered impervious to moisture, as and for the purpose specified.

In testimony that I claim the foregoing as my own, I affix my signature in the presence of two witnesses.

CHAUNCEY H. GUARD.

Witnesses:

GEO. M. YOUNG,
WM. RITCHIE.