

D. ARGERBRIGHT.
Wheels for Vehicles.

No. 135,060.

Patented Jan. 21, 1873.

Fig. 1.

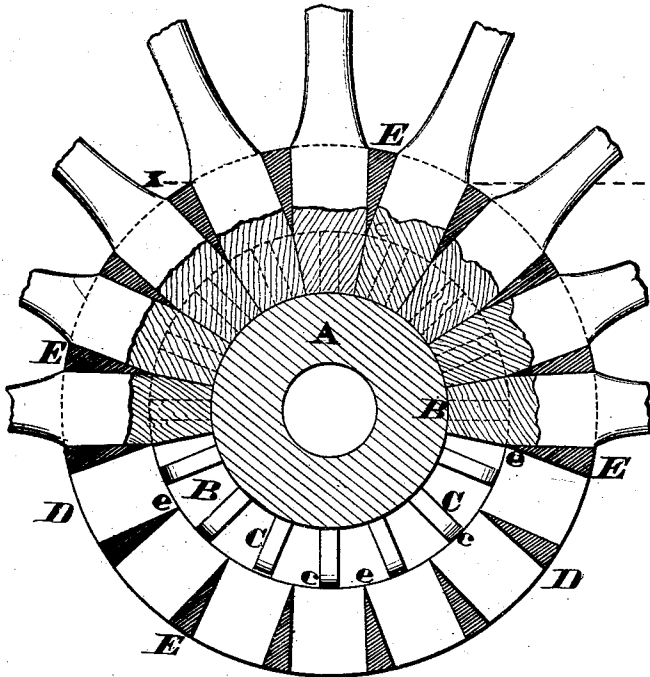


Fig. 2.

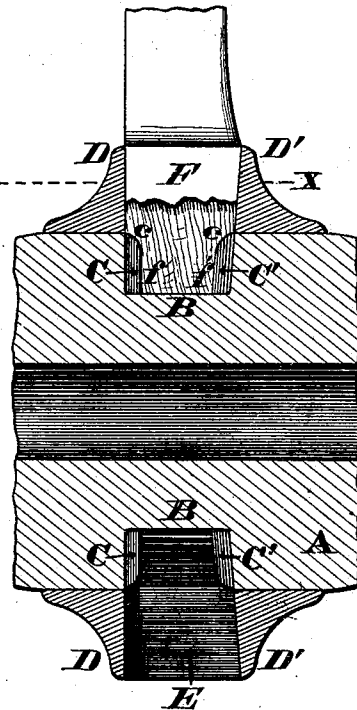


Fig. 3.

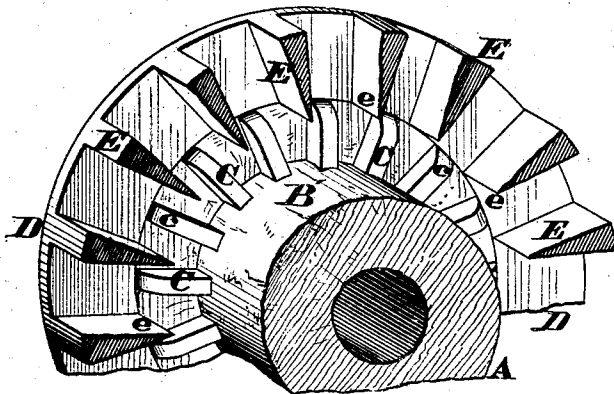


Fig. 4.

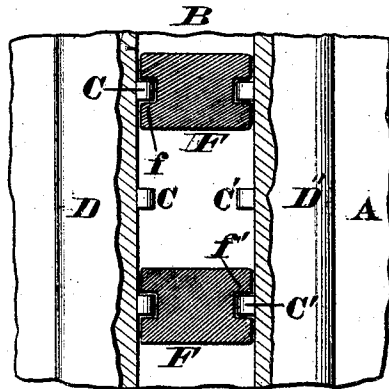
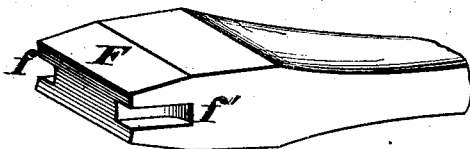


Fig. 5.



D. Argerbright
By Knight Bros.
Attys.

Attest.
 Jas. H. Gayman,
 John Keloh.

UNITED STATES PATENT OFFICE.

DANIEL ARGERBRIGHT, OF TIPPECANOE, OHIO.

IMPROVEMENT IN WHEELS FOR VEHICLES.

Specification forming part of Letters Patent No. 135,060, dated January 21, 1873.

To all whom it may concern:

Be it known that I, DANIEL ARGERBRIGHT, of Tippecanoe city, Miami county, Ohio, have invented an Improved Carriage-Hub, of which the following is a specification:

Nature and Objects of the Invention.

This is an improved form of those carriage-hubs whose spokes occupy mortises in a metallic band or re-enforce around a circumferentially-grooved wooden core or hub proper; and my invention consists in a construction of said band and core, and corresponding shape of spoke-tenons, which is adapted to insure a maximum of strength, solidity, and durability.

General Description.

Figure 1 is a section of my improved hub in the plane of the spokes. Fig. 2 is a longitudinal section of that part of the hub which contains the spokes. Fig. 3 is a perspective view of a portion of the hub separated in the plane of the spokes. Fig. 4 is a section in the line *x x*. Fig. 5 shows, by perspective view, the tenon end of one of the spokes.

A is my wooden core or hub proper, having a circumferential groove, B, from whose front and rear walls project radial tongues C C' having rounded shoulders *c*. Encircling the core A is a cast-metal band or re-enforce composed of two flanges, D D', joined by radial webs E, whose sides converge inwardly to a feather-edge, *e*. Each spoke-tenon F has on the front and rear edges, respectively, grooves *f f'*, which, shoaling outward, receive and fit the tongues C C' when the spokes are in position. The spoke-tenons are beveled and grooved, as shown, so as, when glued and driven, to fit and hug the tongues, and to abut snugly against each other and the bottom of the groove, thus affording a large amount of locking-surface, which holds the spokes securely in the hub, and leaves no vacant space below the band unfilled by timber.

It will be observed that the glued surfaces of the tongues C C' and the grooves *f f'* are with the grain of the timber, and are consequently well calculated to hold fast when once the glue has set, and that the spoke-tenons

are entirely free from the objectionable feature of re-entrant angles or shoulders. The tongues C C' enable the presentation of a portion of the side grain of the core to the glued surface of the spoke, making a much more secure junction than where the end grain only of the hub is presented; and the wooden surface of the spoke-butt being firmly locked and glued to the wooden surface of the core the security of retention of the spokes does not depend upon the band, whose surface being metallic, and having consequently but a feeble adhesion to glue, and being, moreover, liable to expand and contract with changes of temperature, would not of itself retain firm hold upon the spokes. The described combination of tongues C C', which, projecting from the front and rear walls of the circumferential groove in the wooden core, enter grooves in the spokes, effectually prevents any turning of the band upon the hub.

The above-described preferred form of my invention may be modified in non-essential particulars; for example, the two flanges D D' may constitute separate castings riveted to each other upon the hub, and having the webs cast to one of them or alternately to each.

Claims.

I claim as my invention—

1. The radial tongues C C', formed and arranged in the circumferential groove B of a wooden hub, A, when such tongues occupy grooves in the contiguous faces of the spoke-tenons, as herein shown and described, for the purposes set forth.

2. The spokes F, constructed with double taper ends and with longitudinal grooves *f f'* in their faces, as herein shown and described, in combination with the wooden hub A having a circumferential groove, B, and radial tongues C C' therein, and with the metallic band D D' E *e*, for the purpose specified.

In testimony of which invention I hereunto set my hand.

DANIEL ARGERBRIGHT.

Attest:

GEO. H. KNIGHT,
JAMES H. LAYMAN.