

S. B. HINDMAN.
 Improvement in Carriage-Wheels.

No. 131,757.

Patented Oct. 1, 1872.

Fig 1

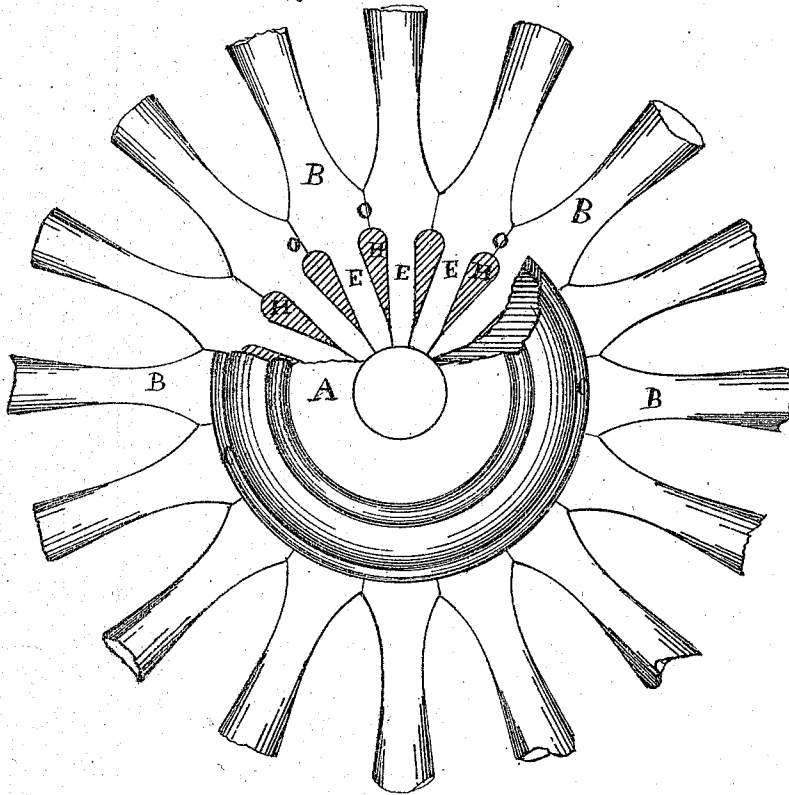


Fig 2

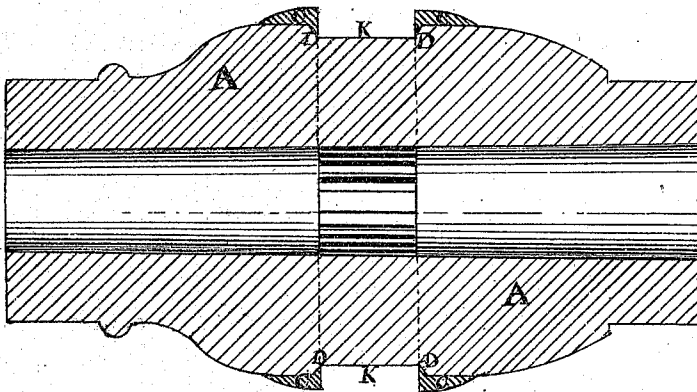
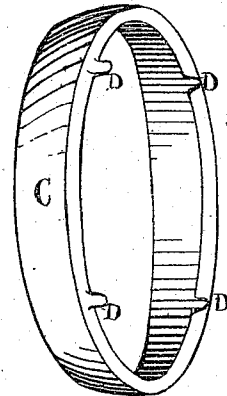


Fig 3



Witnesses
Wilson Hunt
L B Hunt

Inventor
Samuel B Hindman

UNITED STATES PATENT OFFICE.

SAMUEL B. HINDMAN, OF RICHMOND, INDIANA, ASSIGNOR OF ONE-HALF HIS RIGHT TO M. C. WEEKS, OF SAME PLACE.

IMPROVEMENT IN CARRIAGE-WHEELS.

Specification forming part of Letters Patent No. 131,757, dated October 1, 1872.

To all whom it may concern:

Be it known that I, S. B. HINDMAN, of Richmond, county of Wayne and State of Indiana, have invented certain Improvements in Carriage-Wheels, of which the following is a specification:

My invention relates to the construction of carriage-wheels with a wooden hub, mortised so as to leave the wood between the mortises saddle-shaped, thereby enabling me to use a small tenon, and at the same time get the strength of the full size of the spoke at the surface of the hub.

Figure 1 is an end view of the hub partially cut away to show the ribs H and tenons E of the spokes in cross-section. Fig. 2 is a longitudinal section of the hub, showing the bands C as attached. Fig. 3 is a view of the band C, showing the lugs D attached thereto.

A is the hub; B, the spokes; and C, the bands. D D are lugs attached to the bands, said lugs being turned down into the edge of the mortise after the band is driven on, as shown at D, Fig. 2. A shallow groove, K, is turned, in which the mortises are then made with a chisel, the edges of which are shaped like the spoke-tenons E, thereby forming a saddle, upon which the curved shoulders of the spoke rests. The band C is then pressed or driven on in the usual way, to prevent the hub from splitting, and the lugs D are turned down into the mortises. The spokes are then driven in the usual manner, thereby securing the band firmly in its place without nails, screws, or rivets. The tops of the ribs H are curved or rounded, and the spoke-tenons are

scalloped to fit, each two spokes joining upon the center of a rib and forming an arch above the same, as shown at O, Fig. 1.

The above-described arrangement of the curved or rounded ribs and scalloped spoke-tenons may be used without the channel K, as shown in the model.

By my arrangement of the rounded ribs and spokes having curved shoulders I gain for the wooden hub all the advantages that others have attained by metal flanges embracing the faces of the spokes, with the additional advantage of having glue surface for the face and back of the spoke the full length of tenon, shoulder, and arch. In my arrangement, as specified, I make a very small mortise, leaving enough more wood in the ribs than is usual, to enable me to round the ribs near the surface and still retain more strength than in the ordinary rib.

What I claim, and desire to secure by Letters Patent, is—

1. The curved or rounded ribs H, in combination with the spokes B having the scalloped tenons E, and forming an arch, O, above the ribs, substantially as described.

2. The combination of the hub A, bands C, and spokes B, having scalloped tenons E to fit on the curved or rounded ribs H, and forming an arch, O, above the same, substantially as described.

SAML. B. HINDMAN.

Witnesses:

T. B. HUNT,
N. A. HUNT.