

S. E. SHUTE, Jr.
Hubs for Vehicle-Wheels.

No.156,893.

Patented Nov. 17, 1874.

Fig. 1.

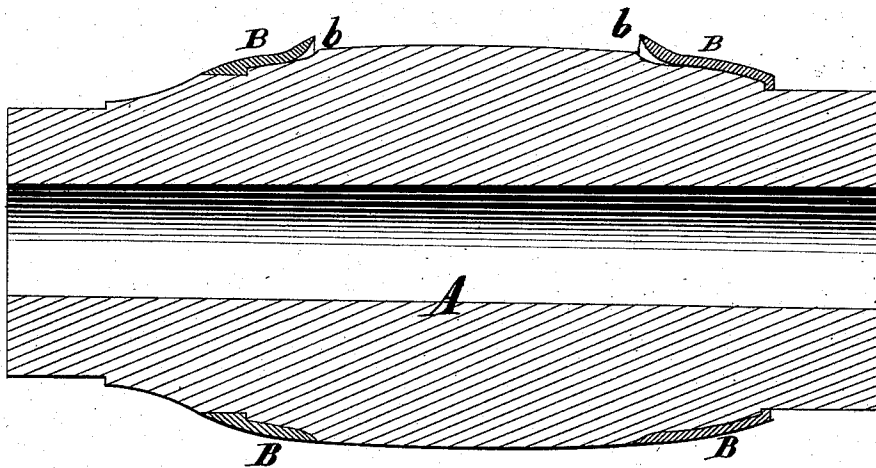
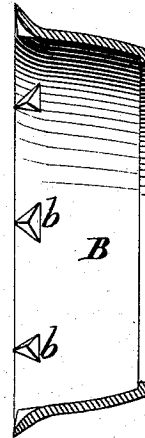
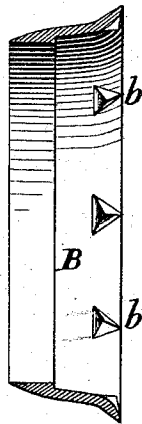


Fig. 2



Witnesses.
A. Ruppert.
Edw. B. B.

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UNITED STATES PATENT OFFICE.

SAMUEL E. SHUTE, JR., OF RICHMOND, INDIANA, ASSIGNOR OF ONE-HALF HIS RIGHT TO J. H. TIMMERMEISTER, OF WAPAKONETTA, OHIO.

IMPROVEMENT IN HUBS FOR VEHICLE-WHEELS.

Specification forming part of Letters Patent No. 156,893, dated November 17, 1874; application filed October 6, 1874.

To all whom it may concern:

Be it known that I, SAMUEL E. SHUTE, JR., of Richmond, in the county of Wayne and State of Indiana, have invented a certain Improvement in Wheel-Hubs, of which the following is a specification:

This invention relates to that class of mortised wooden hubs for carriage-wheels which are bound with metallic bands near the spoke-mortises, the bands being applied previous to driving the spokes, serving more especially to prevent the splitting of the hub in this action, besides giving additional strength to the hub.

My improvement consists in providing the bands with inwardly-projecting spurs, which, in pressing or shrinking the bands on the hub, enter the wood thereof, and cause the bands to be held firmly in place, so that they will be incapable of moving on the hub either laterally or circularly, in which respect they differ from all other bands heretofore shrunk or pressed on wooden hubs, where the mere shrinking on or pressing on prevented lateral displacement only, whereas in my case the peculiar construction of the bands enables me to prevent circular displacement, also, by the mere act of shrinking on or pressing on.

It is proper to state, however, that I do not claim, broadly, wooden hubs bound with metal bands secured against both lateral and circular movement or displacement, and that my invention consists only in the particular means devised to accomplish that end, and above explained. Bands not pressed or shrunk on have been provided with inwardly-projecting V-shaped ribs, entering corresponding grooves previously formed in the hub, to prevent circular displacement; but this does not affect the novelty of my metal-bound hub,

where the bands are either pressed or shrunk on, and have spurs entering the wood in this action, the hub being turned up without grooves or notches for the reception of the spurs.

In the annexed drawings, Figure 1 is an axial section of a wooden hub embodying my improvement. Fig. 2 is a section of the bands.

The hub A is turned up, with suitable grooves and shoulders, for the reception of the metallic bands B, to be secured upon it on either side of the spoke-mortises.

The bands shown are intended to be pressed upon the hub, which I have, by experience, found to be much preferable to shrinking them on. To this end their inner edges, near which they have each a number of inwardly-projecting spurs, *b*, are turned up sufficiently to permit the spurs to clear the hub in slipping the bands upon them. After the bands have been driven home laterally in this condition, their turned-up inner ends are pressed down by a suitable tool until they closely hug the hub, as shown on the lower side of Fig. 1, which causes the spurs *b* to enter the wood of the hub, firmly securing the bands.

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

A wooden hub bound with metallic bands B, which have inwardly-projecting spurs *b*, and are pressed or shrunk upon the hub, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

SAML. E. SHUTE, JR.

Witnesses:

B. EDW. J. EILS,
A. RUPPERT.