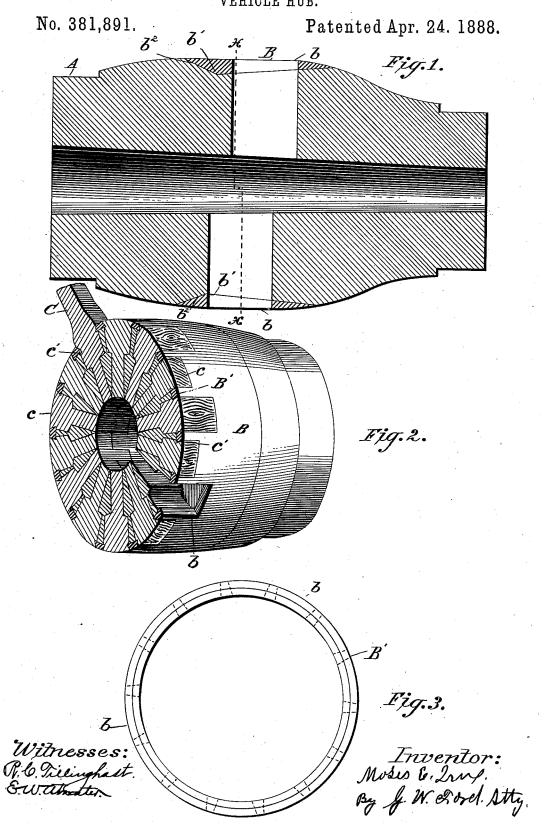
M. E. TRUE. VEHICLE HUB.



UNITED STATES PATENT OFFICE.

MOSES E. TRUE, OF BATAVIA, NEW YORK, ASSIGNOR TO THE BATAVIA WHEEL COMPANY, OF SAME PLACE.

VEHICLE-HUB.

SPECIFICATION forming part of Letters Patent No. 381,891, dated April 24, 1888.

Application filed January 3, 1888. Serial No. 259,700. (No model.)

To all whom it may concern:

Be it known that I, Moses E. True, a citizen of the United States, residing at Batavia, in the county of Genesee and State of New 5 York, have invented a new and useful Improvement in Vehicle Hubs, of which the fol-

lowing is a specification.

My invention relates to improvements in vehicle-hubs in which a metallic shell band 10 having spoke-sockets is made to register with corresponding sockets formed in a wood hub and about which the metal portion is centrally placed; and the objects of the improvements are, first, to provide a band made from a sin-15 gle piece of metal capable of being driven over this wood portion of the hub, so as to compress the same in such manner that the two parts will be interlocked one with the other, and, second, to afford means of interlocking 20 the spoke with the metallic band to prevent lateral displacement. I attain these objects by the mechanism illustrated in the accompanying drawings, in which-

Figure 1 is a sectional view taken through 25 the longitudinal center of the hub with the band in position. Fig. 2 is a perspective cross. sectional view of the hub with band and spokes in working position, and Fig. 3 is a cross sectional view of the band detached.

Similar letters refer to similar parts through-

out the several views.

The hub A is made from a single piece of wood, as herein shown; but the same may be

made in parts, if desired.

B is the metal band, having spoke-sockets b, of suitable dimensions, for receiving the full size of the spoke C, which spoke also enters the hub in its full dimension for a portion of its depth, (as at c,) while the usual tenon is used

40 upon the inner end of the spoke.

The band B is made tapering upon its inner circumference, being of less diameter at one end (as at b') than it is at the other, while the outer circumference is the same for the greater 45 portion of its length, the front end being rounded to an edge and upon the outside, while the rear end is inwardly beveled, (as at b^2 ,) for a purpose now explained. It will be seen that the hub A is made diametrically smaller at b'

shape corresponding with the inner surface of the band. Now, as this band is driven upon the hub from the front or enlarged end this enlarged portion must be compressed, which is done while in the act of driving the band by 55 means of the inwardly beveled end, which first comes in contact with the enlarged portion of the hub, thereby compressing the same, the hub assuming its normal position after the band is seated in its place, thus interlocking 60 the wood and metal and preventing lateral

displacement.

Referring now to the spoke and the manner of locking the same with the hub, it will be seen that the spoke enters the wood hub at its 65 full size for a portion of its depth, and is provided with notches c' upon either side, the notches being in the shape of a half dovetail having asquare shoulder, which shoulder, after being driven, is flush with the circumferential 70 part of the wood hub and immediately beneath the inner circumference of the band, and as the part of the spoke below these notches is laterally compressed in the act of being driven it will again expand to the normal po- 75 sition after passing the metal, so that these square shoulders reach underneath the metal bars upon either side, forming a square lock therewith. The metal band is provided with cross-bars B', which form the parting-wall be- 80 tween each spoke; also, the side wall of the spoke-mortise. These walls are made dovetailing in cross-section, being wider upon the inside of the band than upon the outer side thereof, so that the hub-mortise at its periph- 85 eral part is of a size corresponding with the base of the spoke.

Now it will be observed that when the mortises have been made in the hub and the band driven thereupon the inner edge of the beveled so parting will project over the edge of the mortise, so that the spoke, after being driven, will by the notches in the same become interlocked underneath the bar, thus preventing the spoke from being withdrawn without breaking either 95 the bar or spoke. In driving the spoke the part below the notch is gradually compressed in its passage through the metal until the notch passes the bar, when the compression is 50 than it is at the front end of the band and of released, thereby permitting the spoke to as-

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the more representation of the same its normal position, so as to fill the more tise in the hub, all of which will be understood without further description.

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Having now described my invention, what I fereith in the control of the contro Patent, is-

1. The wooden hub having a band seat diametrically smaller at its rear part, in combination with the metallic band, made thicker at subjects the second cone end so as to form an inward taper corresponding with the seat upon the hub, and provided with a mouth flaring outwardly from the contracted part, so that in driving the band the mouth will first encircle the enlarged part statistic for the same while in the act of being placed thereupon, and afterward e ki ki bi bi ki ki hi hi hat e te te pe te allow of the expansion of the same to its norapplication of the second state of the second authorized and the second parts, substantially as described and herein 20 set forth.

2. The combination of the wooden hub havspaces as a second continuous ingente peripherally-enlarged mortise for the transportant and the reception of the full sized spoke a portion of

tion of the spoke tenon, the metallic shell 25 band surrounding the hub, having the inward-ly-beveled spoke parting walls, the bevel of which extends in a straight line the entire thickness of the band, and the spoke having beveled notches terminating with a square shoulder 30 upon either side at the base of the notch and adapted to expand after being driven so as to form a square lock underneath the band, substantially as described, and for the purpose set forth.

35 3. The combination of the metallic band having the inside taper and the inwardly-beveled spoke-parting walls, the wooden hub made conformable with the band, and the notched spoke having the square shoulder for 40 engagement with the inner part of the metal band, all arranged and operating substantially as herein described.

MOSES E. TRUE.

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