

C. W. TOMPKINS.

MACHINE FOR CUTTING TENONS ON SPOKES FOR VEHICLES.

No. 101,945.

Patented Apr. 12, 1870.

Fig. 1.

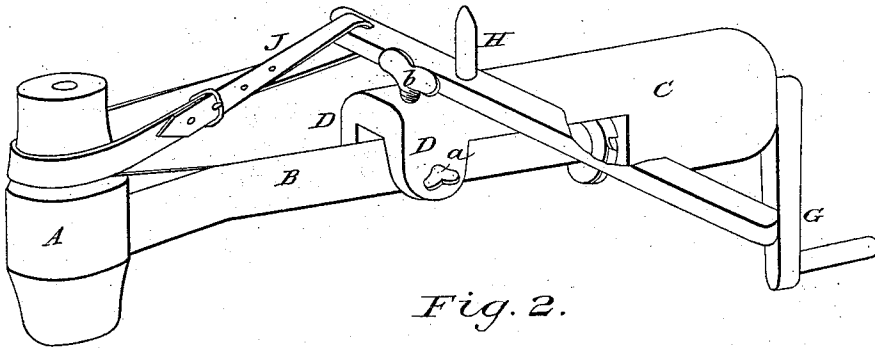


Fig. 2.

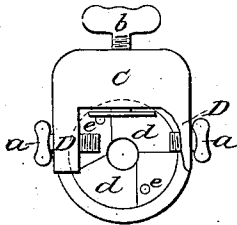
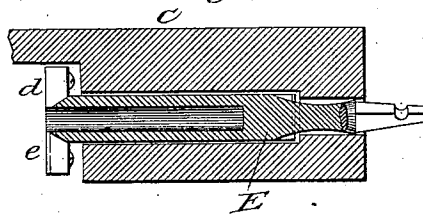


Fig. 3.



Witnesses:

Harry King.  
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Inventor.  
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per Alexander & Mason  
Attys.

# United States Patent Office.

C. W. TOMPKINS, OF ASSYRIA, MICHIGAN.

Letters Patent No. 101,945, dated April 12, 1870.

## IMPROVEMENT IN DEVICE FOR TENONING SPOKES.

The Schedule referred to in these Letters Patent and making part of the same

### To all whom it may concern:

Be it known that I, C. W. TOMPKINS, of Assyria, in the county of Barry and in the State of Michigan, have invented certain new and useful Improvements in Machines for Cutting Tenons on Spokes for Vehicles; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a "machine for cutting tenons on spokes for vehicles," as will be hereinafter fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a perspective view of the entire machine.

Figure 2 is a front view of the borer, and

Figure 3 is a longitudinal vertical section of the same.

A represents the hub of the vehicle, and

B, the spoke on which the tenon is to be cut.

C represents the block in which the auger works.

At the front end, on the under side of the block C, are two ears, D D, between which the spoke B is placed, and its position regulated by a set-screw, *a*, through each ear D.

The pitch of the tenon is regulated by another set-screw, *b*, from the top.

Through the rear portion of the block C is passed a shaft E, having a crank, G, secured to its outer end.

The inner end of the shaft E is hollow, and provided with a circular disk, *d*, upon which are placed two segmental knives, *e e*, forming the means with which the tenon is cut.

Upon the front end of the block C is a pin, H, and on this pin is placed a lever, I, having at one end a strap, J, to be placed around the hub A, as shown in fig. 1.

The operation of the machine is as follows:

The hub A is placed in a vise, and the machine put on the spoke and regulated by the set-screws *a* and *b*. The strap J is then thrown over the hub, and the lever I put on the pin H; then take the lever in the left hand and the crank in the right hand.

By pressing up on the lever and turning the crank the tenon will readily be cut.

Having thus fully described my invention,

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

The combination of the block C, ears D D, set-screws *a b*, auger E *d e*, crank G, lever I, and strap J, all constructed and arranged, as described, to operate substantially in the manner and for the purposes herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand this 7th day of December, 1869.

Witnesses:

R. N. ATMURE,  
ANDREW SWEET.

C. W. TOMPKINS.