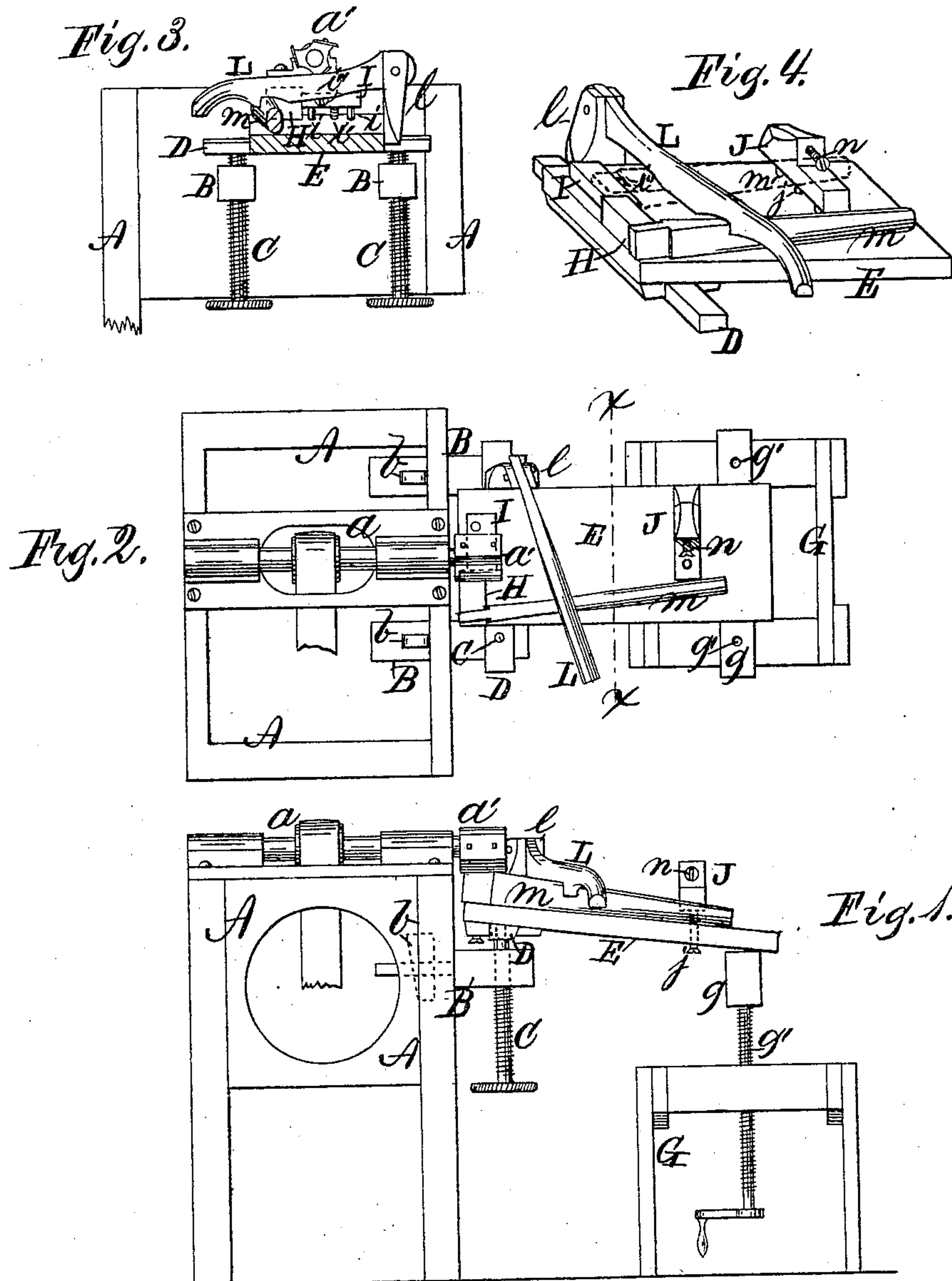


M. C. BUFFINGTON.
Wheelwrights' Machines.

No. 149,984.

Patented April 21, 1874.



Witnesses:

L. M. Richards, {
M. H. Barringer. }

Inventor,
Moses C. Buffington,
© W. B. Richards,
att'y.

UNITED STATES PATENT OFFICE.

MOSES C. BUFFINGTON, OF BURLINGTON, IOWA, ASSIGNOR OF ONE-HALF
HIS RIGHT TO JAMES M. FORNEY, OF SAME PLACE.

IMPROVEMENT IN WHEELWRIGHTS' MACHINES.

Specification forming part of Letters Patent No. **149,984**, dated April 21, 1874; application filed
February 9, 1874.

CASE C.

To all whom it may concern :

Be it known that I, MOSES C. BUFFINGTON, of Burlington, county of Des Moines and State of Iowa, have invented certain new and useful Improvements in Wheelwrights' Machines, of which the following is a specification:

The present invention relates to improvements in machinery for finishing the tenons on the end of spokes next to the hub; and it consists partly in the arrangement of an adjustable table for holding the spoke, with a rotary cutter for dressing off the tenon, and partly in the arrangement of guards on said table for securing the spoke in the necessary positions, all as hereinafter fully described.

To enable those skilled in the art to understand and use my invention, I will now proceed to describe the manner in which the same is or may be carried into effect, by reference to the accompanying drawing, in which—

Figures 1 and 2 represent side and top views, respectively, of a machine embodying my improvements. Fig. 3 is a vertical section of Fig. 2 on the line *x x*, and Fig. 4 is a perspective view of the table for holding the spoke to be operated on.

The letters A in the drawing represent a portion of any ordinary wheelwright's machine, carrying a shaft, *a*, with a rotary cutter, *a'*, upon one end. B B are standards secured by keys *b b* in the side of the frame A. C C are adjusting-screws, which pass upward through the outer ends of the standards B, and carry on their upper ends a slide, D. E is a table, notched at one end onto the slide D, so that it may have a movement transversely with the axis of the cutter *a'*, and also be raised and lowered at its outer end slightly. G is a table with a transverse arm, *g*, supported above it upon screws *g' g'*, by which its height may be adjusted. H is a block, secured to the upper side of the table G. I is also a block, attached to the table G by pins *i i*, and made adjustable in height by a set-screw, *i'*, and provided on one side with a gage-screw pin, *i''*. J is also a block, made

adjustable vertically on the table G by a set-screw, *j*, and has a step upon one side, in the vertical side of which a gage-screw pin *n* is seated. L is a clamp-lever, pivoted at one end in a standard, *l*, projected upward from the table G. *m* is a common wheel-spoke.

The operation of my invention is as follows: The table E, being seated on its supports D and *g*, may be adjusted at the desired angle horizontally by the screws C and *g' g'*, so that, when the spoke *m* is placed thereon, with one shoulder of the square tenon on its larger end resting against the block H, as shown by full lines at all of the figures, and the cam L brought down upon it, the table E may be pushed to the right hand, and the end of the spokes passing beneath the rotating cutter *a'* be dressed to any desired, and to a uniform, thickness of tenon. The spoke may then be placed as shown by dotted lines at Fig. 4, the height of the block I having been first adjusted to regulate the sides of the tenon, the screw *i'* being adjusted to regulate its length upon the spoke by means of the lower shoulder resting against its end, and the screw *n* being adjusted to regulate the transverse line of the shoulders, when, by again pushing the table E to the right, the sides of the tenons may be cut rapidly, smoothly, and, what is so desirable, with great uniformity of size.

I claim—

1. The table E, when adjustably and movably seated upon the bars D and *g*, and arranged to operate with the block H and cutter *a'*, substantially as described, and for the purpose specified.

2. The blocks I and J, when adjustably secured upon the table, E, as set forth, and arranged to operate with the bars D and *g*, adjustably attached to their respective supports, as described, and with the cutter *a'*, substantially as described, and for the purpose specified.

MOSES C. BUFFINGTON.

Witnesses:

T. J. TRULOCK,
JAMES M. FORNEY.