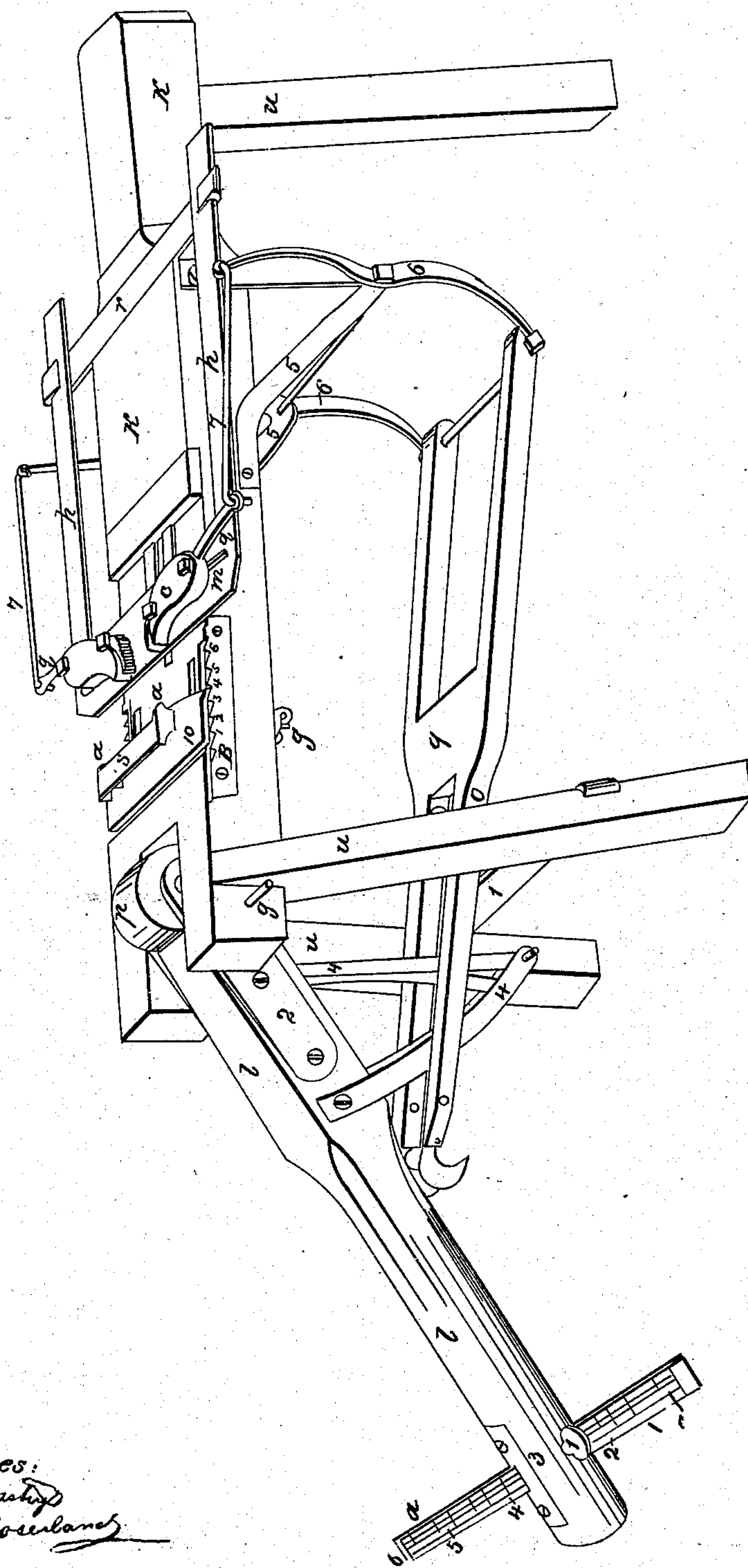


M. SCOTT.  
Tire or Hoop Bender.

No. 43,231.

Patented June 21, 1864.



Witnesses:

Samuel Haskins

Wm. B. Rosenband

Inventor:

Melvin Scott

# UNITED STATES PATENT OFFICE.

MELCHI SCOTT, OF FAIRFIELD, IOWA.

## IMPROVED TIRE OR HOOP BENDER.

Specification forming parts of Letters Patent No. **43,231**, dated June 21, 1864.

*To all whom it may concern:*

Be it known that I, MELCHI SCOTT, of the city of Fairfield, in the county of Jefferson and State of Iowa, have invented a new and useful Improvement in Tire or Hoop Benders; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing, making a part of this specification, which is a view in perspective.

*k k* represent the bench; *u u*, the legs; *ll*, the lever; and *p* is the pulley on the end of the lever, fastened by side irons, 2, by means of screw-bolts or rivets, a bolt or pin passing through the ends of the side irons and through the pulley, which revolves when it is operated upon.

*a a* is the graduating-staff, passing through the hind end of the lever, which is fastened by a thumb-screw, I, by which it may be graduated up or down to any point or number required.

Number 4 represents the braces on the front end of the lever, fastened at the upper end by rivets or screws, and at the lower end of the same a bolt passes through, by which the adjustable rack under the bench is made to move by the operation of the lever.

9 is the adjustable rack, which is attached to the lower end of the curved side levers by means of a bolt.

*r* represents an iron cross-bar at the hind end of the sliding apparatus, bent on the ends through which the sliding apparatus passes.

Number 1 is a cross-bar fastened to the front legs, and which supports the adjustable rack.

6 6 are the curved side levers, which are attached to the crooked side braces, 5 5, by means of a screw-bolt.

*h h* is the sliding apparatus upon the top of the bench.

7 7 are the rods attached to the curved lever at the upper end, and to the handle of the pinchers *q q*, by which the sliding apparatus is made to move.

*c c* are two boxes or caps on the top of the sliding apparatus. On the inner ends of the boxes or caps are two bolts fastening the pinchers. On the outer ends are also two bolts, by which the boxes are fastened to the sliding apparatus, and graduated by means of slits *m m* to any width tire.

10 is the movable head-block, through which the staple S passes, and down through the bench and tightened at the lower ends by wing-burrs *g*, and at the top by two wedges or keys, which staple may be raised to suit any thickness of tire.

1 2 3 4 5 6 are side plates with notches or teeth, so as to graduate the head-block, so as to make a larger or smaller circle.

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

1. The sliding apparatus and the pinchers, combined with the side levers, and the adjustable rack, which, being operated by the lever *l*, brings the bar forward until it begins to bend, when the pinchers let go their hold until the next time the lever is raised.

2. The graduating-staff *a* in the lever *ll*, with numbers 1 2 3 4 5 6 corresponding to the numbers on the notched side plates, 1 2 3 4 5 6 by which the tire may be made larger or smaller by means of the corresponding numbers.

Witnesses: MELCHI SCOTT.

SAMUEL HASTING,  
WM. B. ROWLARD.