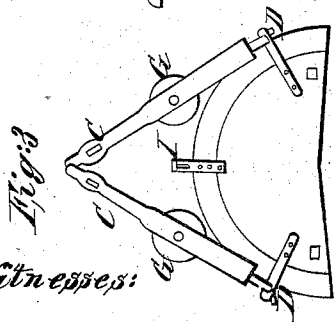
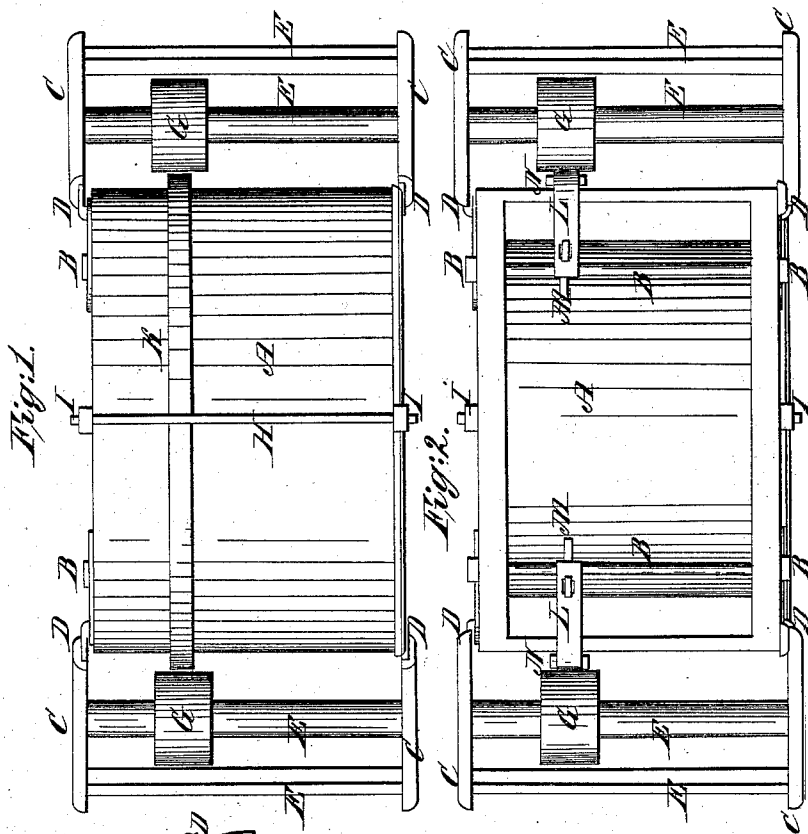


*S. Keeler,  
Bending Wood.*

*No 48,181.*

*Patented June 13, 1865.*



*Witnesses:*

*J. Luchs  
Schied. Holler. gezeichnet*

*Inventor:*

*Samuel Keeler*

*By his Att'y  
J. Franklin Peckard*

# UNITED STATES PATENT OFFICE.

SAMUEL KEELER, OF LANCASTER, PENNSYLVANIA.

## IMPROVEMENT IN WOOD-BENDING MACHINES.

Specification forming part of Letters Patent No. 48,181, dated June 13, 1865.

*To all whom it may concern:*

Be it known that I, SAMUEL KEELER, of the city of Lancaster, and State of Pennsylvania, have invented new and useful Improvements in Machines for Bending Fellies for Carriage-Wheels; and I do hereby declare the following to be an 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 arrangement and combination of pivoted levers with rollers (attached to a semicircular frame) to pass over a straight piece of timber and bend it from the center in a long bend, pressing the felly down at the ends, fastening it with a strap-iron, hook, and key, and drawing and stretching the band by a block, together with a bar to hold the felly at the center.

Figure 1 represents a front view; Fig. 2, a back view; Fig. 3, a top view.

A represents the semicircular wooden frame upon which one or more fellies are bent. The frame is braced and strengthened by two rods, B, extending from the top to the bottom of the frame and securely bolted. On each side of the frame are two arms, C C, hung to the frame, and operating on pivots D D. The arms are braced and strengthened by upright posts E E, the whole forming a powerful lever

on each side. These levers swing around the face of the frame A, and an adjustable roller, G, operates on the inner post, E, which is round. Across the center of the face of the frame A is a bar, H. Its ends are attached firmly or mortised into projections I, that allow the bar to project several inches beyond the frame A. This bar H is for the purpose of holding the felly J at the center while the arms C (with their rollers G passing over the fellies) are pressed back and bend the felly with a long bend from the center to the ends. The felly is bent from a straight piece of timber, on the outside of which is placed a strap-iron, K, (to prevent the felly from splitting outward,) that has hooks L L on its ends, and fastened by keys M, that bear against the iron rods B and bind the felly to the frame. Between each end of the felly and the hook L of the strap-iron K, I insert a block, N, to draw and stretch the strap-iron or band K tightly over the felly.

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

The arrangement and combination of the devices C, D, E, H, L, M, and N, as herein described, and for the purposes set forth.

SAMUEL KEELER.

Witnesses:

JOHN M. AMWEG,  
SAMUEL HUBER.