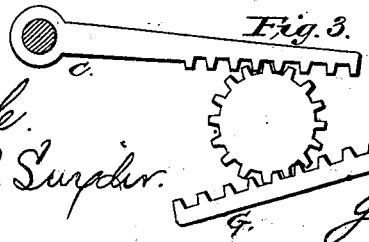
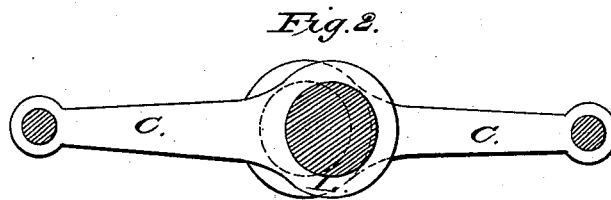
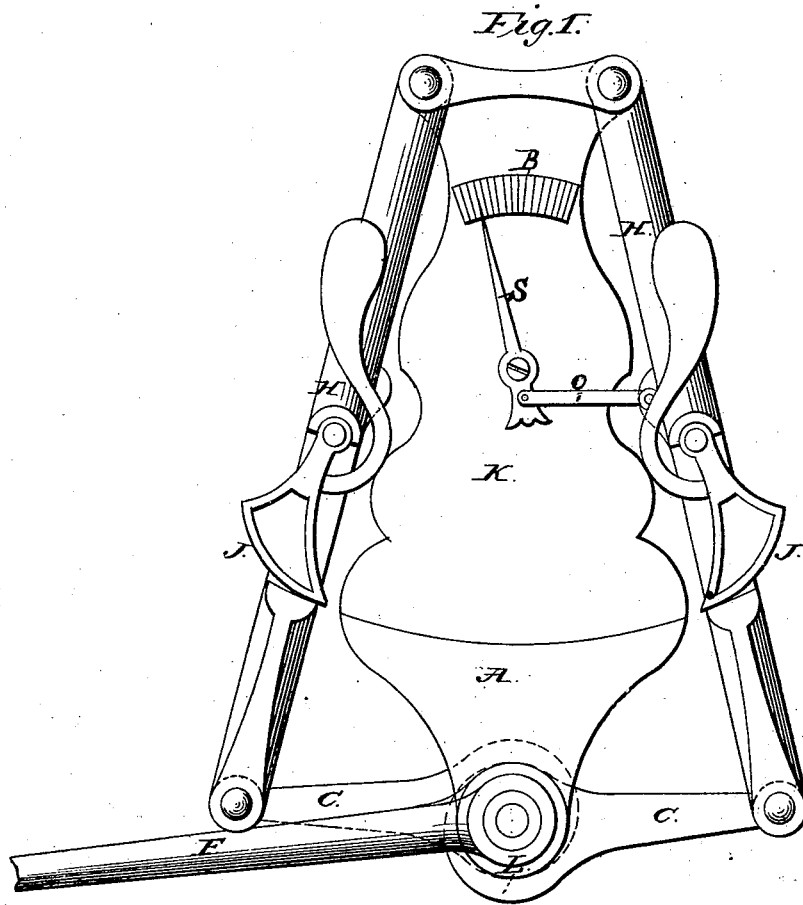


J. D. HOBBS.
Tire-Shrinking Machine.

No. 167,835.

Patented Sept. 21, 1875.



Witnesses:
Herley Hale.
Theodore B. Surphor.

Inventor:
Joseph D. Hobbs.

UNITED STATES PATENT OFFICE.

JOSEPH D. HOBBS, OF NORTHFIELD, IOWA.

IMPROVEMENT IN TIRE-SHRINKING MACHINES.

Specification forming part of Letters Patent No. **167,835**, dated September 21, 1875; application filed April 17, 1875.

To all whom it may concern:

Be it known that I, JOSEPH D. HOBBS, of Northfield, Des Moines county, Iowa, have invented an Improvement in Tire-Shrinking Machines, of which the following is a specification:

The object of my invention is to facilitate the shrinking of wheel-tires, iron hoops, or other forms of wrought bar-iron or steel, without the necessity of cutting and welding. It consists in the improved tire-shrinking machine hereinafter described.

In the accompanying drawing, J J represent the eccentric jaws for holding the metal. The said jaws are secured to the arms H H, which are hung by bolts to the back K. To the lower extremity of the arms are attached the connecting-rods C C, which are moved back and forth by the double eccentrics L, worked by means of a lever, F. The anvil A is secured to the back K, on which is a scale, B, and to which is also attached by a pivot an indicator, S, connected to one of the levers H by a rod, O.

The back of the machine is bolted to a post

or wall. The metal to be shortened, whether in straight bars, hoop, or tire form, is to be heated and placed in the jaws J J. The double eccentric L is turned by the lever F, which draws the jaws together, compressing the metallic bar or tire in the direction of its length, and affording a means of keeping the bar or tire free from kinks by rapping it with a hammer on the anvil A, thus shrinking the metal in the most perfect form and manner, and the exact amount of shrinkage will be shown on the scale B by the indicator S.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

The improved tire-shrinker herein described, consisting of the combination of the anvil A, back K, carrying-scale B, and indicator S, rod O, levers H, jaws J, connecting-rods C, double eccentric L, and lever F, as and for the purpose set forth.

JOSEPH D. HOBBS.

Witnesses:

PERLEY HALE,
THEODORE B. SNYDER.