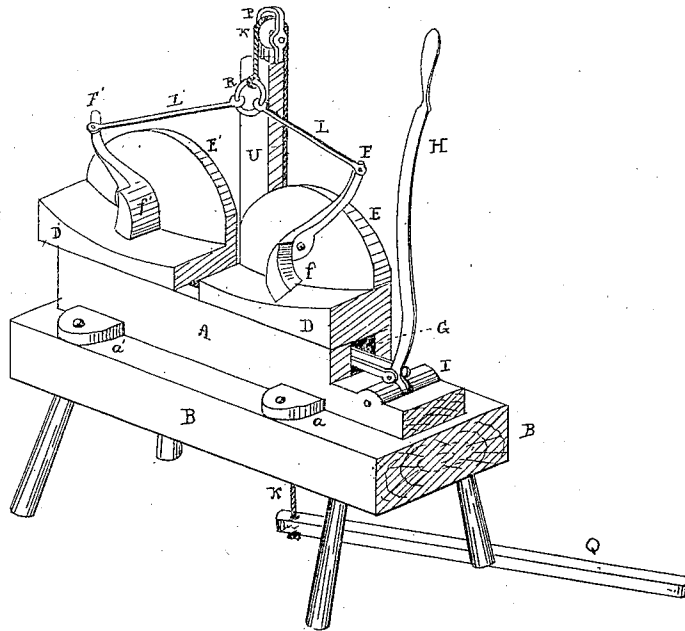


Machines for Upsetting Tires.

Patented September 16, 1873



Inventors.

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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN MACHINES FOR UPSETTING TIRES

Specification forming part of Letters Patent No. 142,833, dated September 16, 1873; application filed August 13, 1873.

To all whom it may concern:

Be it known that we, JOHN L. YEAGER and ALBERT H. YEAGER, of Lampeter Square, in the county of Lancaster and State of Pennsylvania, have invented certain Improvements in the Construction and Combination of Machines for Shrinking or Upsetting Tire, of which the following is a specification:

The nature of our improvement in machines for shrinking or upsetting tire consists in the construction and arrangement of a mounted box having flanged beds, to which lever-jaws are applied and connected with links and cord with a foot-treadle in such a manner as to hold and shrink the tire placed upon it in a vertical position, the whole resulting in a cheap, compact, and efficient machine, which can be readily operated without an assistant.

The accompanying drawing clearly shows the combination and arrangement of the parts, and may be briefly described as follows:

The box A is closed half-way on top, with a fixed, smooth, somewhat curved bed, D, with a vertical flange, E, on one side. The other portion of the box is covered by a sliding bed, D', with its flange E. These flanges hold the fulcrum-bearings for the smooth-edged jaws *f* with their lever ends *F*. The box has perforated lugs *a* at base, by which it is secured to the block B. This block has an upright, U, and pulley P on top for a cord, K, which extends from a foot-treadle, Q, over the pulley to a ring, R. This ring holds the links L,

which links are, respectively, connected with the pawls or arms *F* of the jaws *f*, and operates them simultaneously.

The operation is readily understood. The sliding bed on the box A has a connecting-rod, G, extending to the vertical lever H, connected by its fulcrum-bolt with the lower rear portion of the box. The curved beds being smooth, as well as the sharply-rounded ends of the jaws eccentrically held, so that when the movable bed is drawn out, the heated portion of the tire set upon the curved beds, and secured by the jaws operated by the foot, and the lever H by one hand, while the other steadies the tire, the shrinking is accomplished as in other machines provided with a movable bed and pawls, &c., variously applied with the same object in view, but less satisfactory on ordinary occasions.

We therefore do not claim any novelty in our machine apart from its construction and combination as a whole; or, in other words,

What we claim is—

The construction and combination, as herein described and shown, of the box A, flanged bed-pieces D E, connecting-rod G, and lever H, jaws *f*, links L, ring R, pulley P, cord K, and treadle Q.

JOHN L. YEAGER.
ALBERT H. YEAGER.

Witnesses:

WM. B. WILEY,
JACOB STAUFFER.