

W. HOLDSWORTH.
Tire-Upsetting Machine.

No. 169,265.

Patented Oct. 26, 1875.

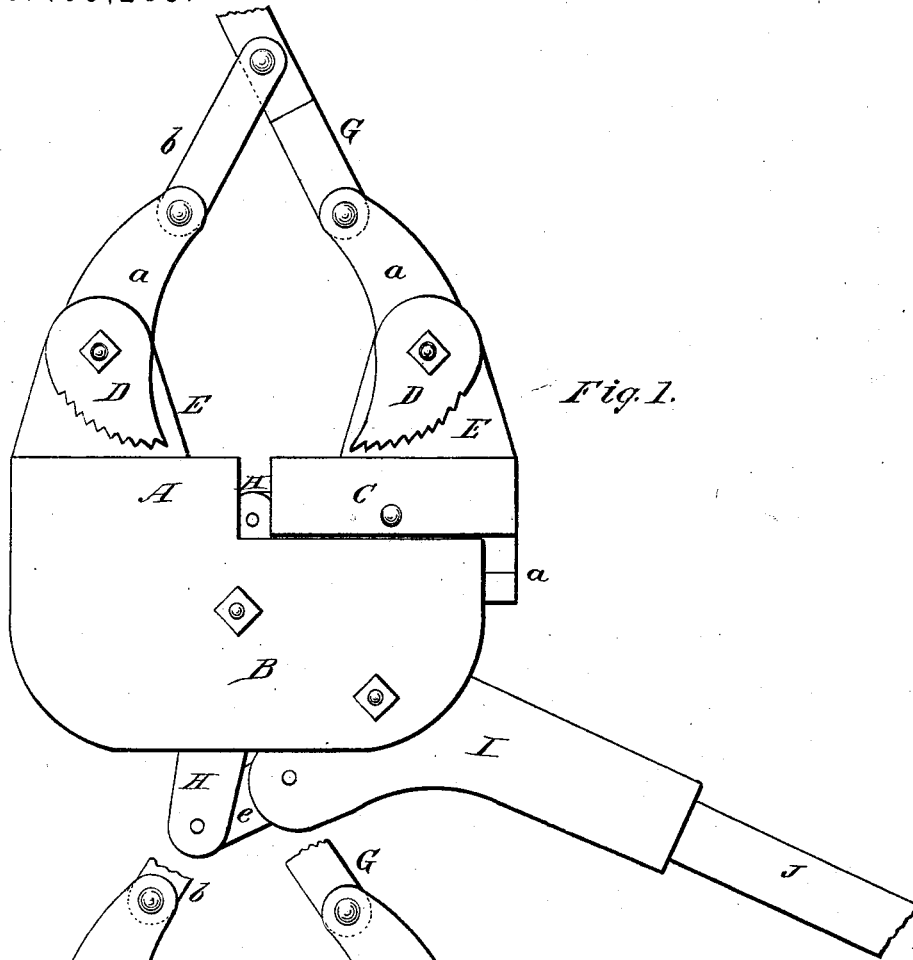


Fig. 1.

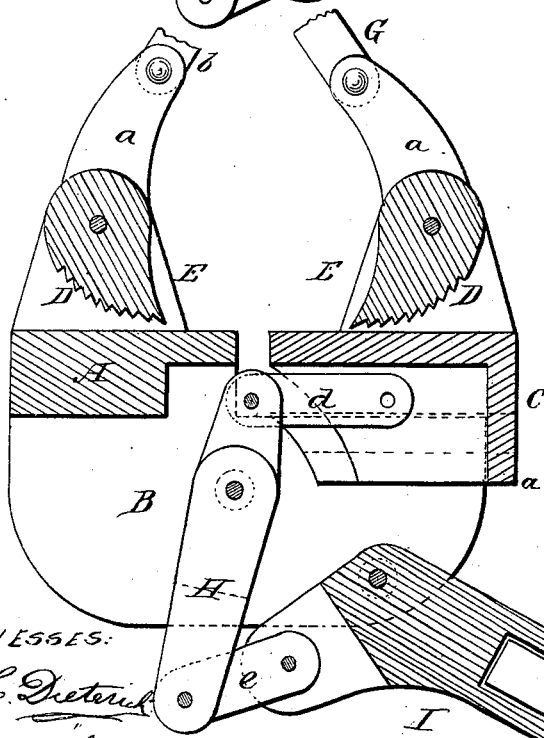


Fig. 2.

WITNESSES:

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WILLIAM HOLDSWORTH, OF CHESTER, PENNSYLVANIA.

IMPROVEMENT IN TIRE-UPSETTING MACHINES.

Specification forming part of Letters Patent No. **169,265**, dated October 26, 1875; application filed September 16, 1875.

To all whom it may concern :

Be it known that I, WM. HOLDSWORTH, of Chester, in the county of Delaware and State of Pennsylvania, have invented certain new and useful Improvements in Machines for Upsetting Iron; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

The nature of my invention consists in the construction and arrangement of a machine for upsetting iron, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side elevation, and Fig. 2 is a central vertical section, of my invention.

A represents the stationary bed of my machine, provided with suitable side flanges B B, which project downward, and are fastened to any suitable supports. C is the movable bed, provided on its under side with a suitable dovetailed tongue, *a*, fitting in corresponding grooves in the inner sides of the flanges B B. The upper surface of the movable bed C is level with that of the stationary bed A. The two beds A C are each on one side provided with a standard or projection, E, to the front side of which is pivoted a cam, D, of the same width as the bed, and corrugated on its under side. Each cam is provided with an arm, *a*, to one of which is pivoted a lever or handle, G, while the other is connected thereto by a pivoted bar, *b*. Between the two flanges B B

is pivoted a lever, H, the upper end of which is, by a link or bar, *d*, connected with the inner end of the movable bed C. The lower end of the lever H is, by a link or bar, *e*, connected with one arm of an elbow-lever, I, which is pivoted between the flanges B B, and the other end of which forms a socket for the insertion of the operating-lever J.

The operation of my machine is as follows: By depressing the lever J the movable bed C is moved away from the stationary bed A. The cams D D are then raised from the beds, and the iron to be upset is laid on the two beds. The cams are then lowered on said iron, to hold it firmly in position. By now raising the lever J the bed C is slowly moved inward, which movement fastens the cams more firmly on the iron, and upsets the iron.

The compound leverage, as arranged for moving the bed C, exerts a powerful pressure, so that the iron will be upset as much as possibly can be done.

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

The combination of the stationary bed A, movable bed C, provided with standards E E, the pivoted cams D D, having arms *a a*, lever G, and connecting-bar *b*, and the elbow-lever I, lever H, and connecting-bars *d e*, all constructed substantially as and for the purposes set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

WILLIAM HOLDSWORTH.

Witnesses :

W. C. MCARTHUR,
C. L. EVERT.