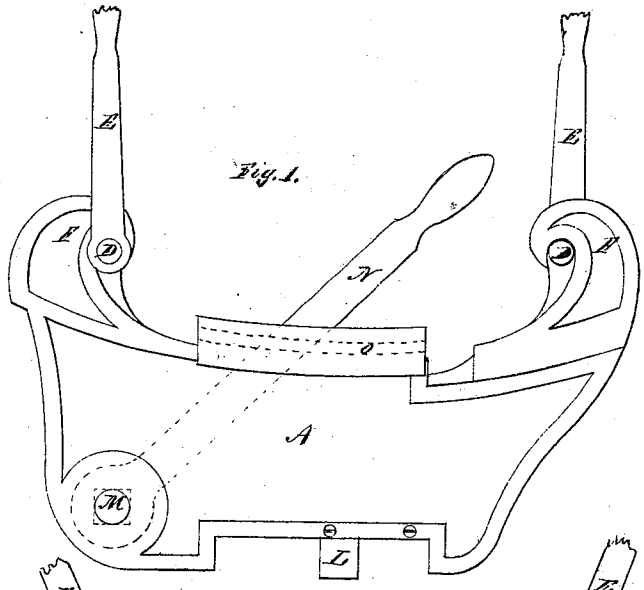
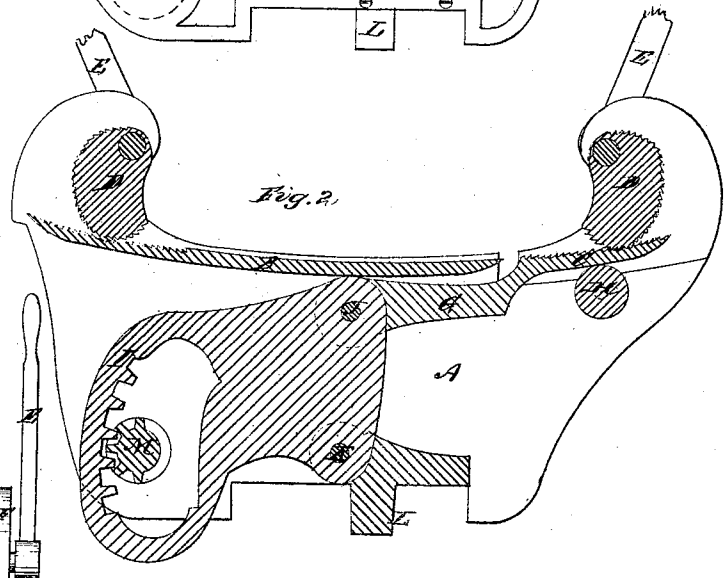
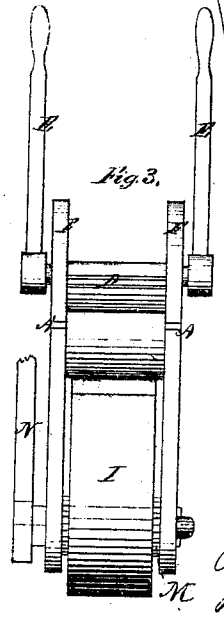
T. Sullivan,

Tire Upsetter.

No. 102,448. Patented Apr. 26. 1870.







Witnesses
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By
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THOMAS SULLIVAN, OF CORNING, NEW YORK.

Letters Patent No. 102,448, *dated April* 26, 1870.

IMPROVED TIRE-UPSETTING MACHINE.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, THOMAS SULLIVAN, of Corning, in the county of Steuben and State of New York, have invented certain new and useful Improvements in Machines for Upsetting Tires; 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 a part of this specification.

The nature of my invention consists in the construction and arrangement of a "tire-upsetting machine," as will be hereinafter 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 drawings, in which—

Figure 1 is a side view,

Figure 2 is a longitudinal vertical section, and

Figure 3 is an end view of my machine.

A represents a cast-iron frame, of suitable dimensions, having a fixed bed-plate, B, and a movable bed-plate, C.

In the frame A, at the end of the fixed bed-plate B, and also at the outer end of the movable bed-plate C, are hooks F F, for retaining eccentrics D D, which work therein by means of their handles E E, and serve to hold fast the tire, about to be shortened, to the bed-plates.

N is a lever, applied to the pinion M, which acts upon a curved rack, I, connected by the arm G to the movable bed-plate C, and draws it toward the fixed bed-plate B, thus shortening the tire at the point which had been heated.

Under the movable bed-plate C is a friction-roller, H, to give ease of motion.

The curved rack I is hinged to the arm G and to the frame by means of the hinges J K, as seen in fig. 2.

On one side of the stationary bed-plate B is an upward-projecting flange, with groove O, for the insertion of a lever to keep the tire down, if required.

The whole machine is to be placed upon an ordinary anvil, with a pin, L, projecting from its under side, inserted in the hole in the anvil.

Having thus fully described my invention,

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

1. In combination with the movable bed-plate C, arm G, and curved rack I, the pinion M, lever N, and friction-roller H, all constructed and operating substantially as and for the purposes herein set forth.

2. The combination and arrangement of the frame A with pin L, bed-plates B C, eccentrics D D, rack I, and pinion M, all constructed and arranged to operate substantially as and for the purposes herein set forth.

3. In combination with the fixed bed-plate B, the grooved flange O, substantially as and for the purposes herein set forth.

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

THOMAS SULLIVAN.

Witnesses:

JOHN STODDARD,

WILBUR B. THOMAS.