

W.H. Rodhearer,

Making Fellies,

No 80,013,

Patented July 14, 1868.

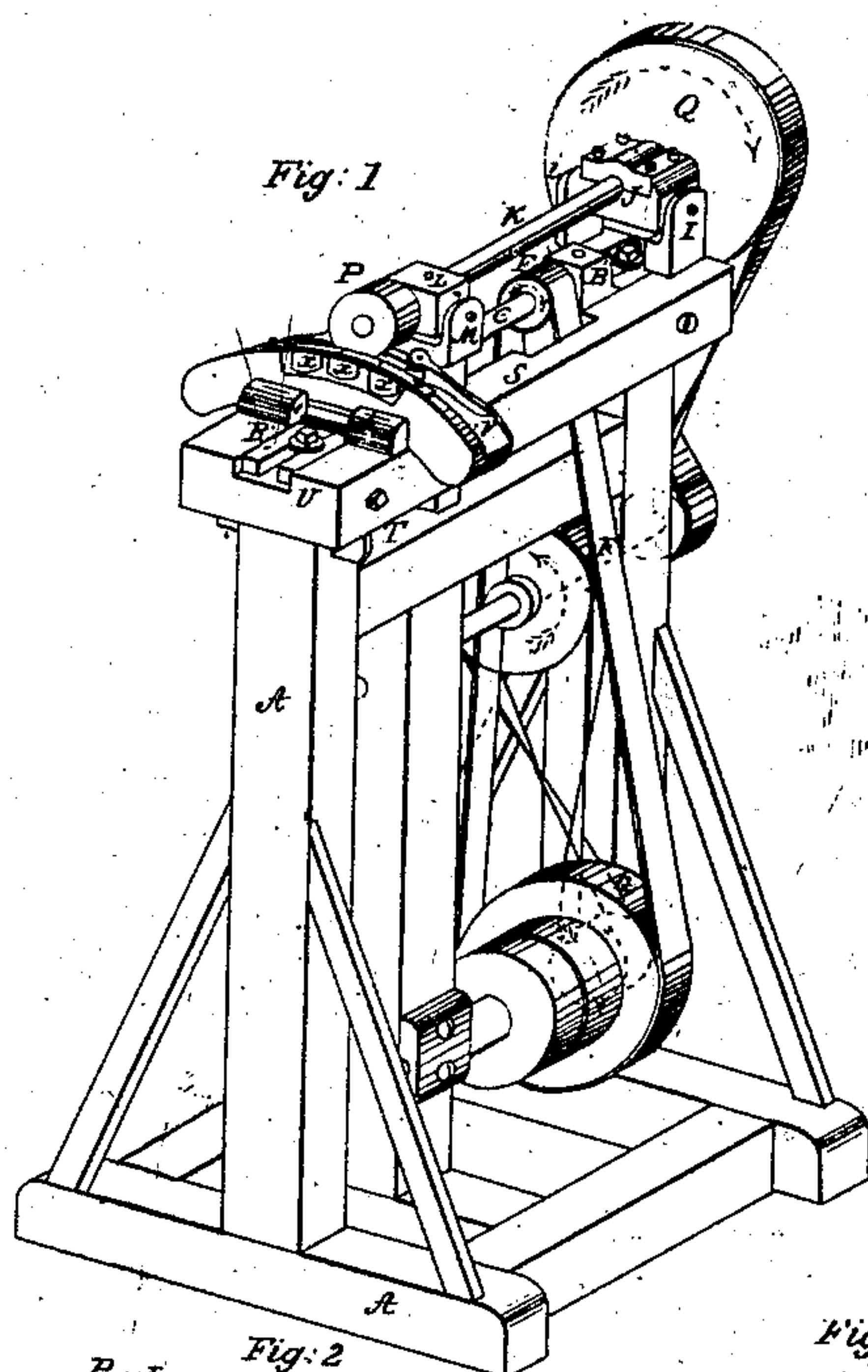


Fig: 4

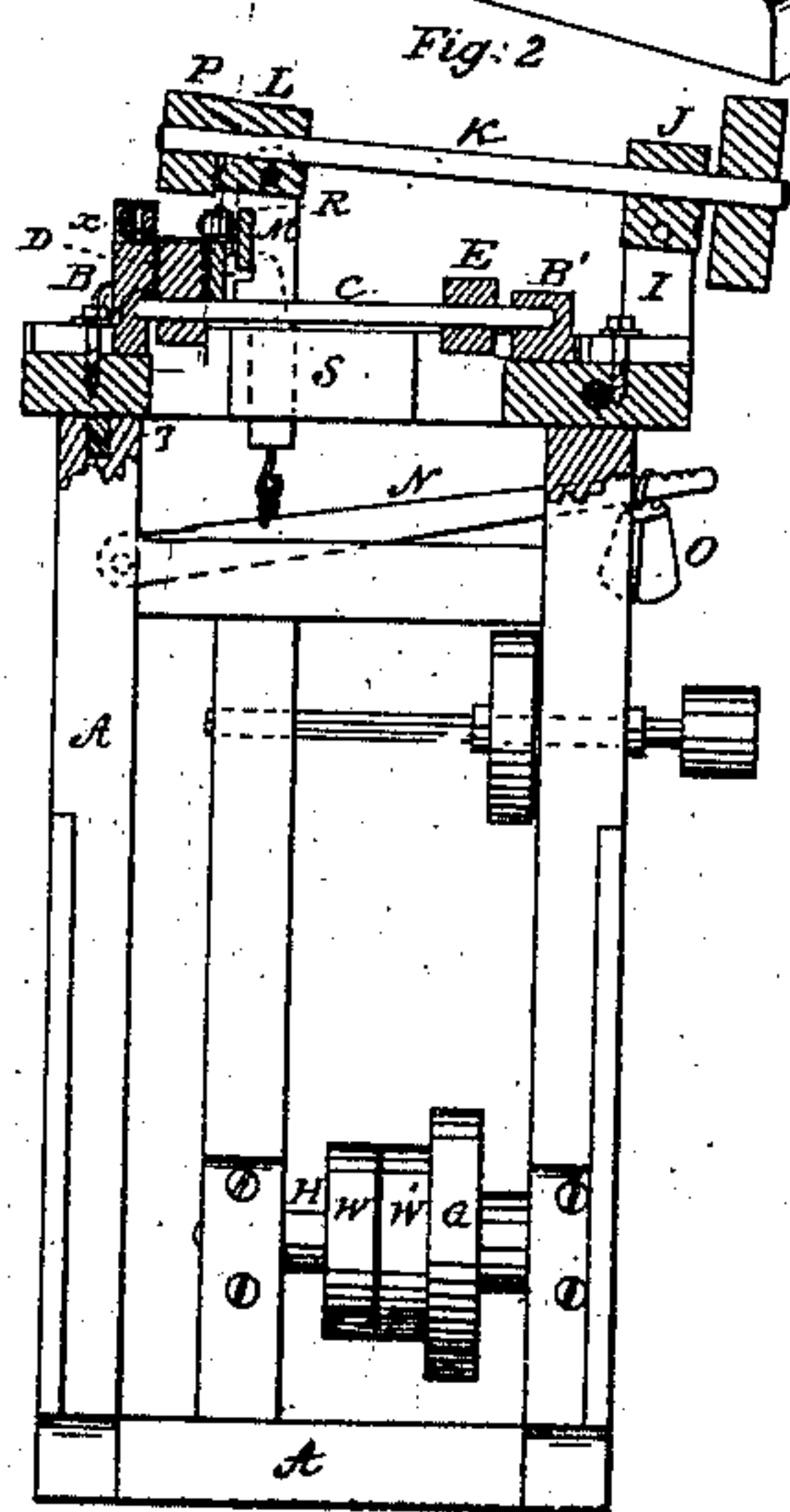
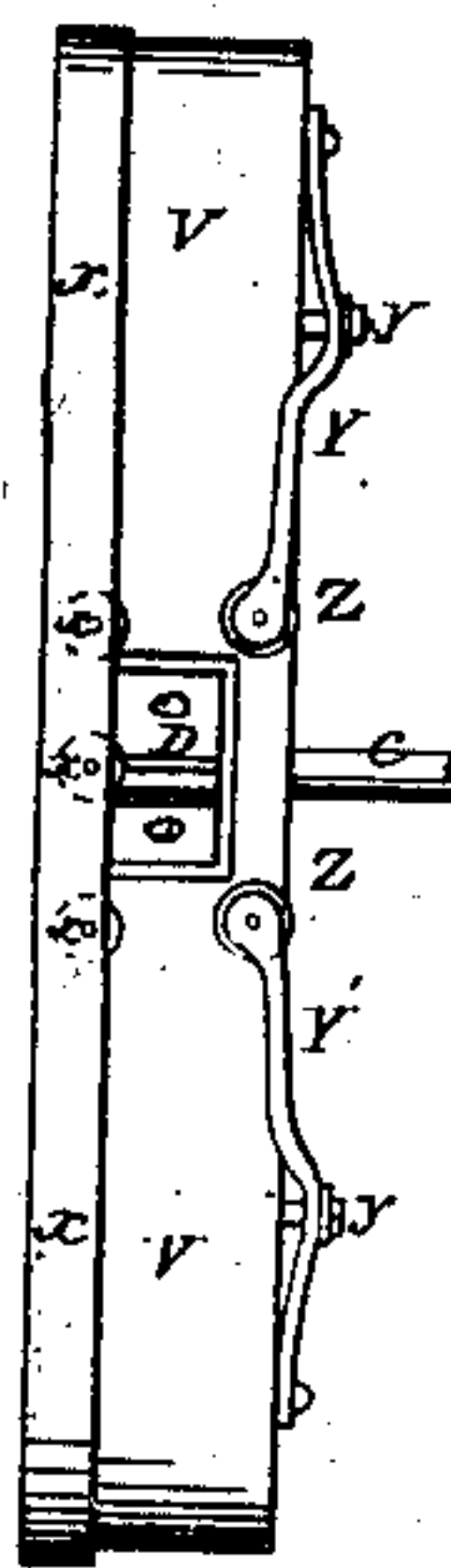
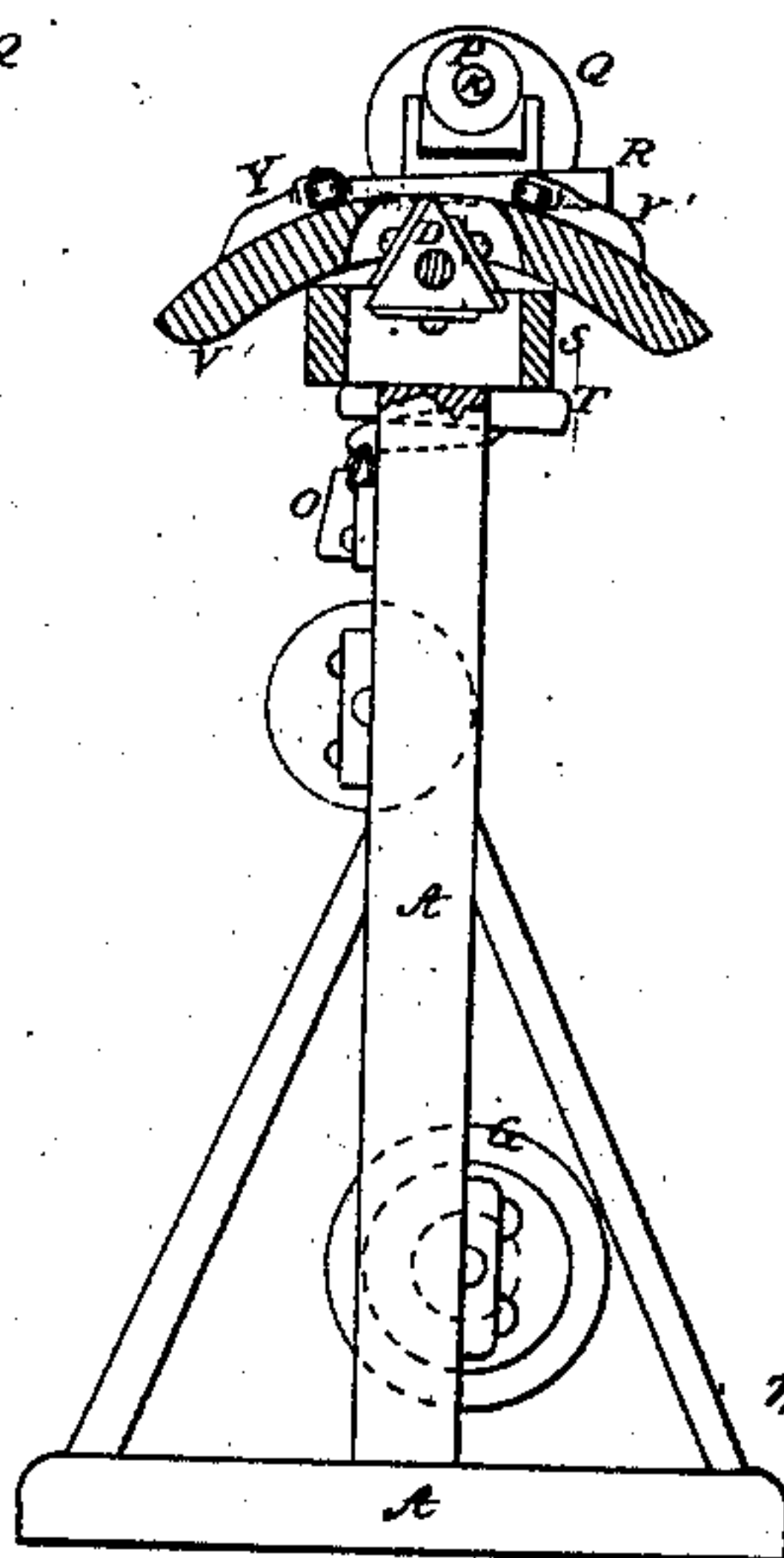


Fig: 3



Witnesses:
Chas. Bower
J. H. Layman.

Inventor:

W. H. Rodhearer
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United States Patent Office.

WILLIAM H. RODEHEAVER, OF MIAMISBURG, OHIO.

Letters Patent No. 80,013, dated July 14, 1868.

IMPROVEMENT IN MACHINES FOR DRESSING FELLOES.

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

TO WHOM IT MAY CONCERN:

Be it known that I, WILLIAM H. RODEHEAVER, of Miamisburg, Montgomery county, Ohio, have invented a new and useful Machine for Dressing the Inside of Sprung Felloes; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

This invention relates to a machine intended to be driven by steam or other "power," whereby the inside of the felloes of wheels may be dressed with great accuracy, speed, and economy.

Figure 1 is a perspective view of a machine embodying my invention.

Figure 2 is a vertical section of the operative parts, in the plane of the cutter-shaft.

Figure 3 is a section, in the plane of rotation, of the cutter.

Figure 4 is a top view of the convex rest or bed on which the stuff is laid.

The frame A is provided with a pair of head-stocks, B B', adjustable toward or from one another, and affording journal-bearing to a shaft or spindle, C, armed with a cutter-head, D, and having a pulley, E, by which it is rotated at a high velocity by a belt, F, from a pulley, G, on the driving-shaft H.

Rising from the rear of the frame are two standards I I', to which is pivoted the rear bearing J, of a shaft, K, whose front journal-box, L, is similarly pivoted in a post, M, which is restricted to a vertical motion in the frame, and connects below with a lever, N, notched to receive an adjustable weight, O.

The shaft K is armed in front with a milled feed and pressure-roller, P, and in the rear with a pulley, Q, driven at a low velocity in the direction indicated by the arrow, by the represented or any suitable belted or other connection with the driving-shaft. R is a wedge, by which the descent of the feed-roller P is determined, to suit the depth of felloe.

Pivoted to the rear end of the frame is a beam, S, whose forward end is brought to any desired elevation for any desired depth of cut, by means of a wedge, T, and is secured at such elevation by a bolt, U.

This beam S supports, near its front end, a convex rest or bed, V, having, together with the beam S, a central excavation for the play of the cutter-head, and, being positively attached to said beam, receives, by its elevation, a corresponding adjustment. W W' are a pair of customary fast and loose driving-pulleys.

The convex rest, V, has at its front side a vertical flange, X, containing one or more anti-friction rollers, x, and is provided at its rear side with two springs, Y Y', adjustable toward and from the front by set-screws y, and bearing, at their ends, rollers Z.

I have selected, to illustrate my invention, a machine in which the cutter-head revolves in a vertical plane, but said head may, if preferred, be so arranged as to revolve in a horizontal plane, the other operative parts of course preserving the same relative positions, and the frame and driving-mechanism being modified accordingly.

An adjustable helical spring, or other customary device, may of course be used, if desired, in place of the weight O.

The action of the machine is as follows: The various operative parts having been adjusted to their proper relative distances and velocities, and being set in motion, the undressed felloes are simply fed in at the right, and emerge in a dressed condition at the left end of the convex rest.

In feeding in the felloes, care is of course taken to present the face side of the felloe next to the flange X.

I claim herein as new, and of my invention—

The convex and flanged rest or bed V, adjustable in height in the manner described, in combination with the cutter-head D and adjustable feed and pressure-rollers P, or their mechanical equivalents, the whole being arranged and adapted to operate substantially as set forth.

In testimony of which invention, I hereunto set my hand.

WILLIAM H. RODEHEAVER.

Witnesses:

GEO. H. KNIGHT,
JAMES H. LAYMAN.