

No. 672,834.

Patented Apr. 23, 1901.

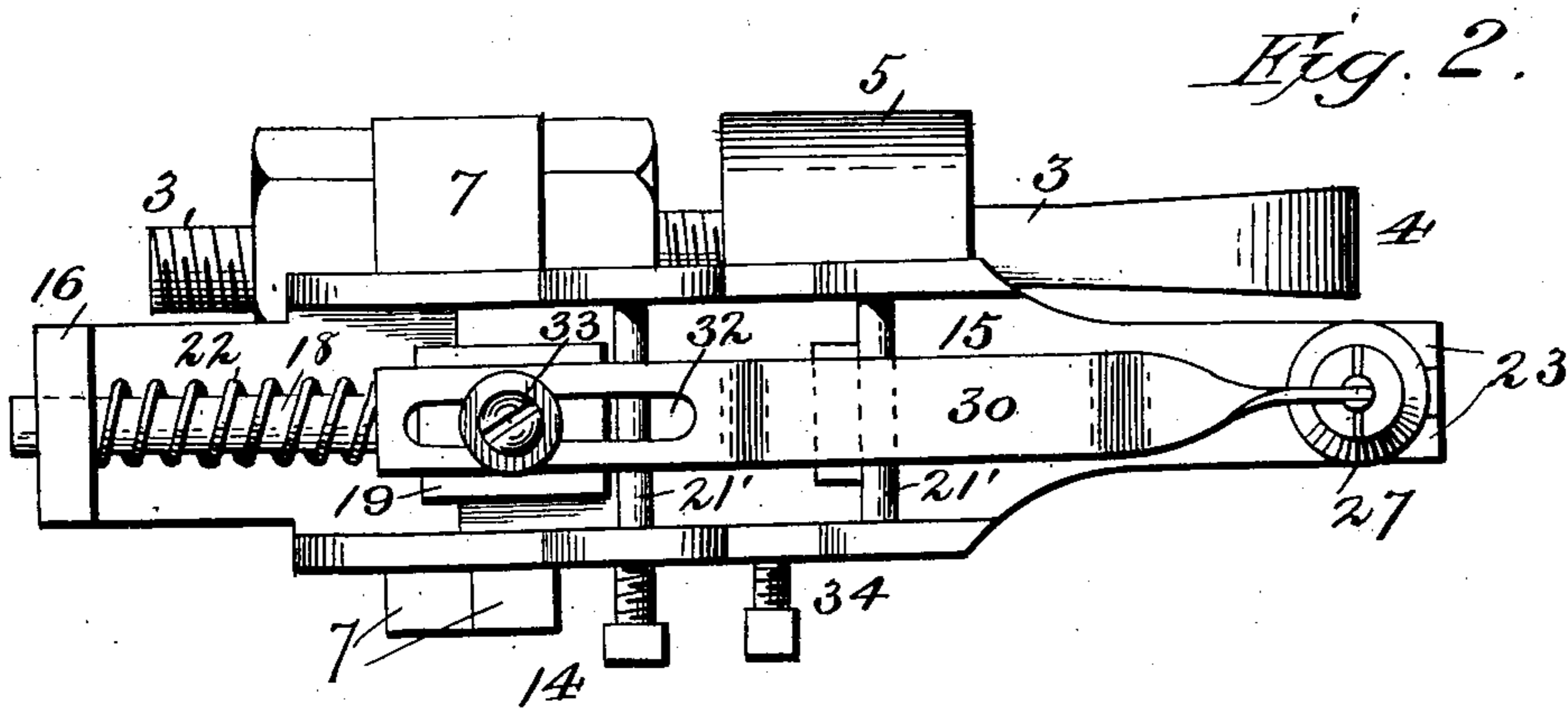
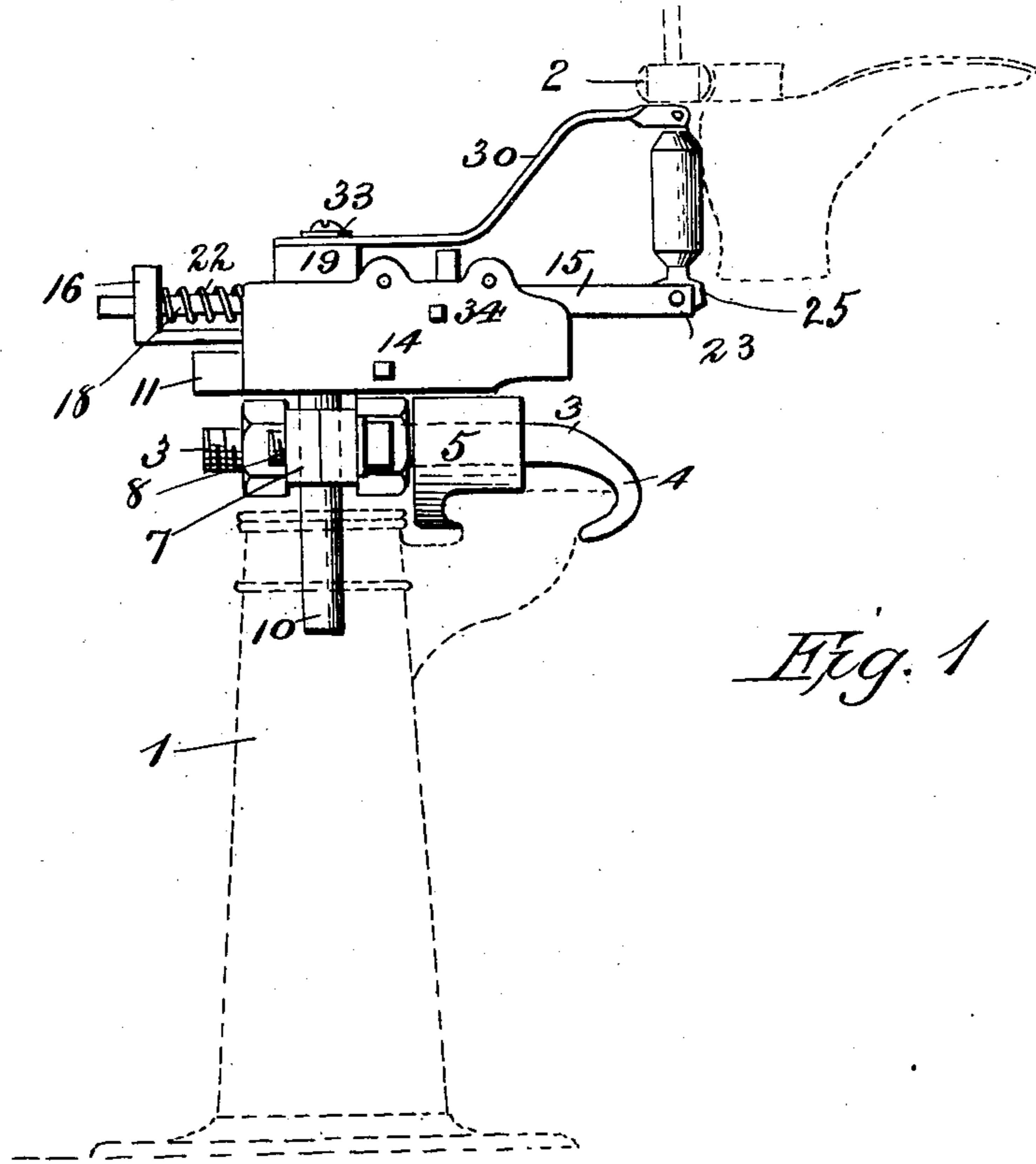
E. E. CANEDY.

WORK REST FOR HEEL TRIMMING MACHINES.

(Application filed July 30, 1900.)

(No Model.)

3 Sheets—Sheet 1.



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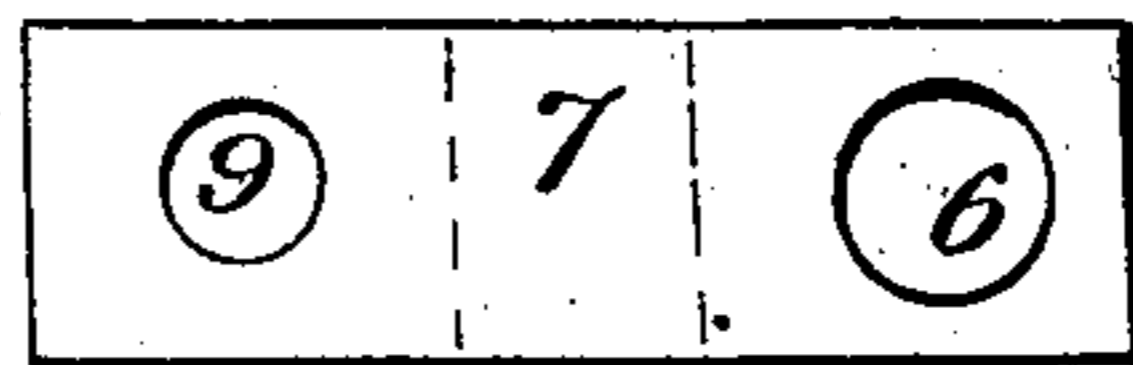
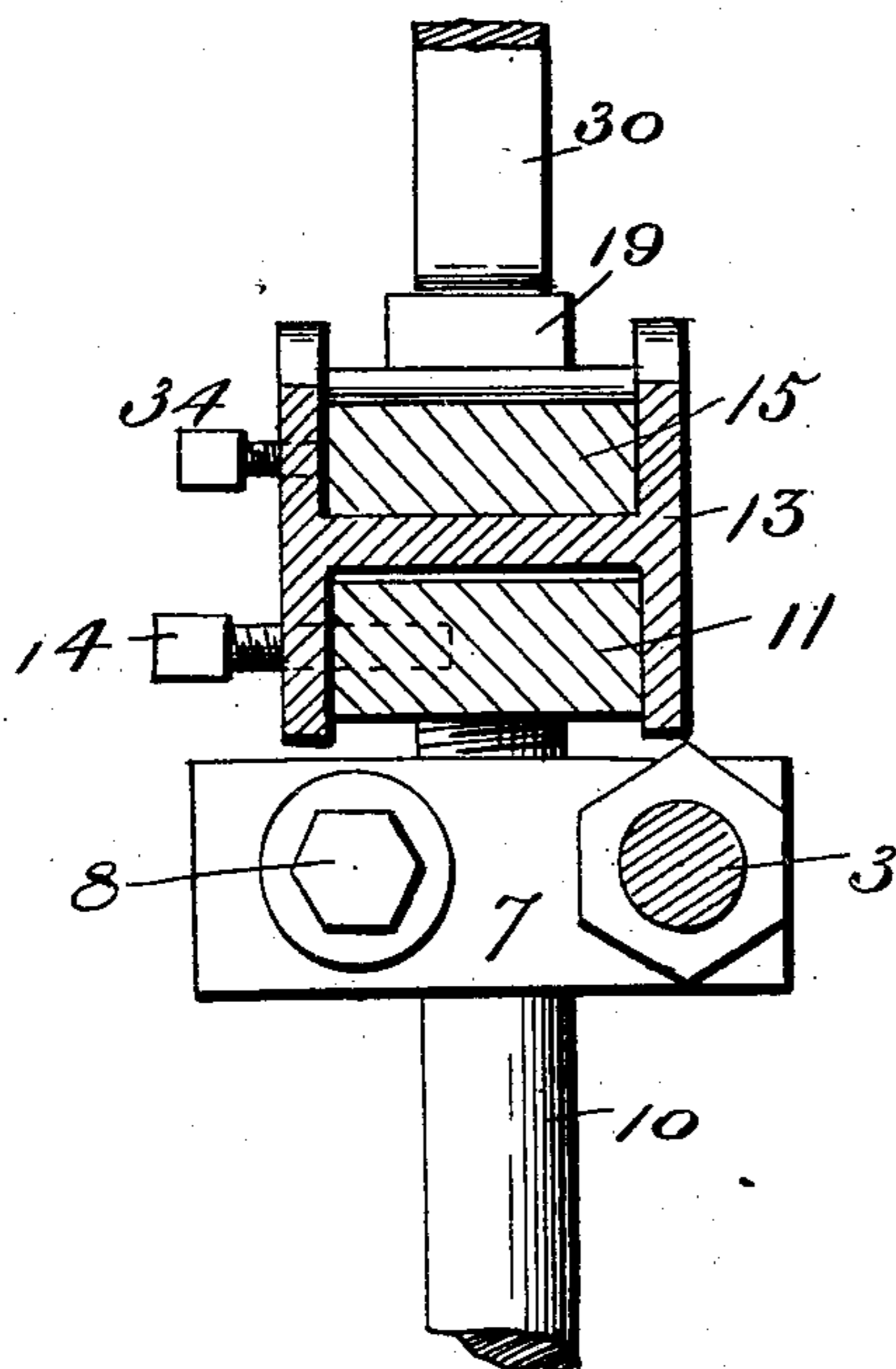
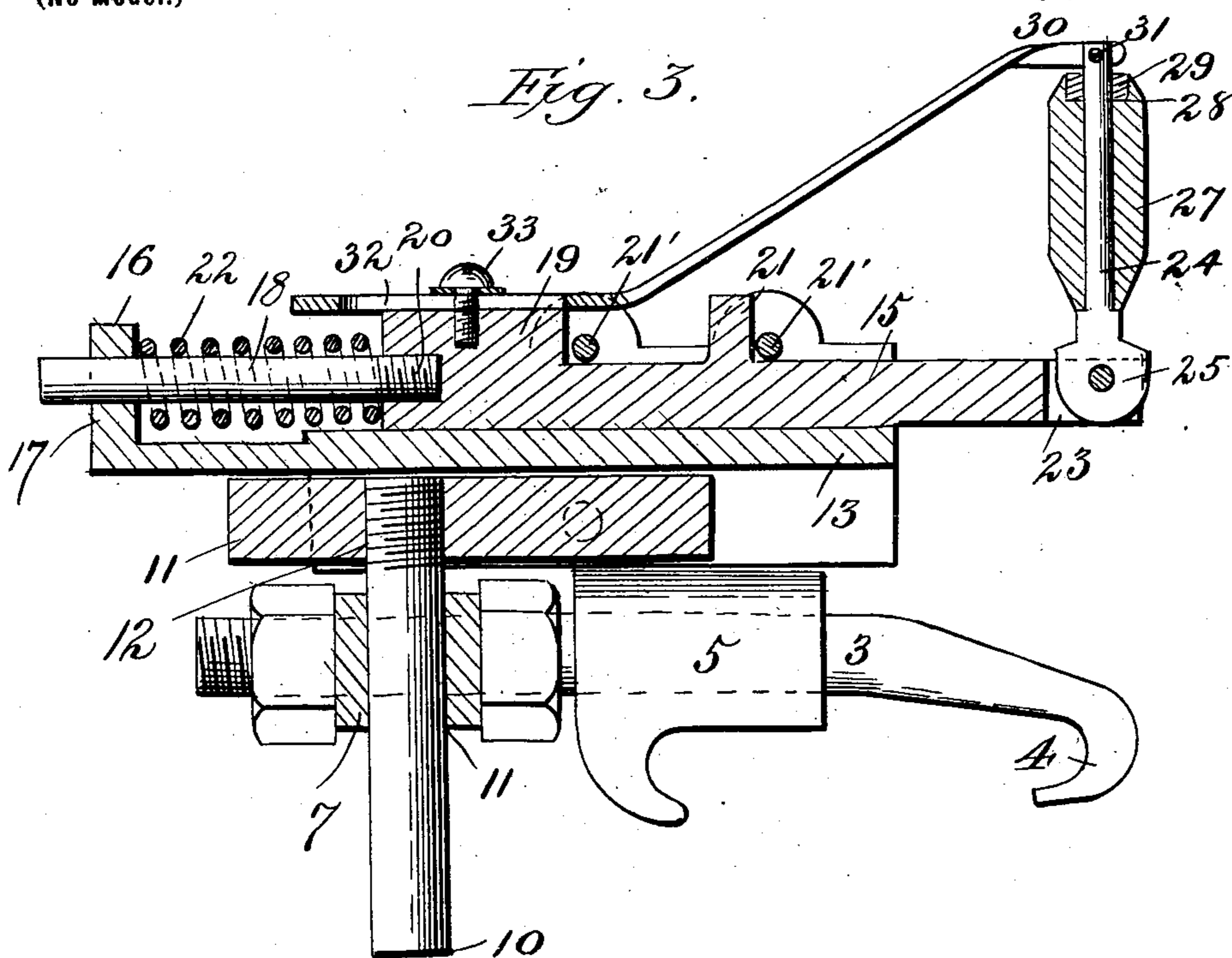
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(No Model.)

3 Sheets—Sheet 2.



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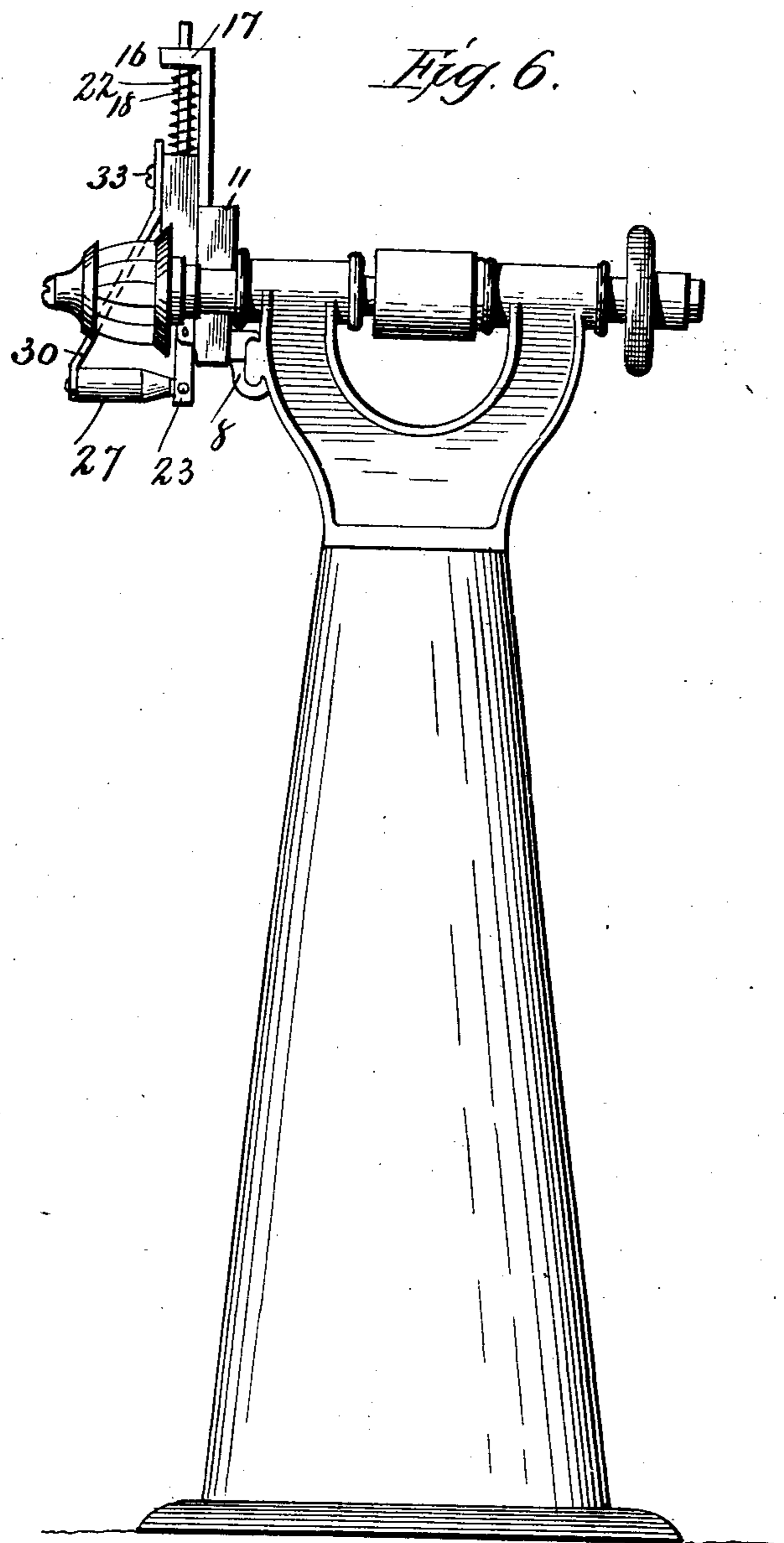
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3 Sheets—Sheet 3.



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UNITED STATES PATENT OFFICE.

ERNEST EDWARD CANEDY, OF NORTH ADAMS, MASSACHUSETTS.

WORK-REST FOR HEEL-TRIMMING MACHINES.

SPECIFICATION forming part of Letters Patent No. 672,834, dated April 23, 1901.

Application filed July 30, 1900. Serial No. 25,245. (No model.)

To all whom it may concern:

Be it known that I, ERNEST EDWARD CANEDY, a citizen of the United States, residing at North Adams, in the county of Berkshire and State of Massachusetts, have invented new and useful Improvements in Rotary Heel-Trimmers, of which the following is a specification.

My invention relates to machines for trimming boot and shoe heels; and the objects of the same are to provide a simple and efficient guide or rest for rotary heel-trimming machines and to give to said guide or rest an adjustment to suit heels of different contours.

My invention may be used as an attachment to machines in present use or may be applied to any suitable frame having a rotary cutter mounted thereon.

In carrying out my invention I have provided a clamp which permits a wide range of attachment to machines of different kinds and which permits adjustment of the guide or rest relatively to the cutter-head whether said cutter-head is revolving in a vertical or a horizontal plane.

In the accompanying drawings, which form a part of this specification, I have shown my invention mounted upon a supporting-frame having a rotary cutter of a well-known construction. It will be understood, of course, that I am not to be limited as to the character of the machine upon which the attachment may be applied.

Figure 1 is a side view of my invention mounted upon a heel-trimming-machine frame. Fig. 2 is a plan view of the same. Fig. 3 is a longitudinal sectional view. Fig. 4 is a transverse sectional view. Fig. 5 is a detail view of the split clamp. Fig. 6 is a side view of my invention mounted on a heel-trimming machine, the cutter-head of which is secured to a horizontal shaft.

Like numerals of reference designate like parts wherever they occur in the different views of the drawings.

The numeral 1 designates the framework of a machine, and 2 is a rotary cutter designed for trimming boot and shoe heels. My clamp consists of a threaded bolt 3, having a hook or jaw 4 at one end and a sliding jaw 5, mounted loosely upon the shank of the bolt 3, said bolt passing through a smooth aperture

6 in a split clamp 7, having a bolt 8, fitting registered and threaded holes 9 in the split portion of said clamp 7. A shank 10 passes through an aperture 11, formed in the split clamp 7, and this shank 10 is seated in a socket in any suitable part of the frame of the machine. The upper end of the shank 10 is screw-threaded, and a plain bar 11 is apertured at 12 to fit the threaded portion of the shank 10. The bar 11 forms a support for the sliding seat 13 for the guide or rest. This seat 13 comprises a double guideway, its sectional shape being substantially the contour of the letter H. The lower groove formed in said seat forms a guideway for the bar 11, and a set-screw 14, passing through the side of the seat 13, holds said bar at any point of adjustment. The upper groove in the seat 13 forms a guideway for the sliding guide or rest 15. At the rear end of the seat 13 a lug 16 is formed, and an aperture 17 is provided in the lug 16. The guide or rest 15 is provided with a boss 19, and at one side of this boss a threaded socket 20 is formed. Secured in this socket is a round shank 18, which projects through the hole 17 in the lug 16 and is loosely fitted to slide therein. A lug 21 is formed on the upper surface of the guide, and the movement back and forth of this guide is limited by the rods 21', secured in registered apertures in the side portions of the seat 13. A spring 22 surrounds the shank 18 and bears against the lug 16 at one end and against the boss 19 at the other end, the stress of said spring having a tendency to force the guide 15 outward. At the outer end of the guide or rest 15 two bearing-lugs 23 are formed, and journaled between these lugs is a spindle 24, having an enlarged end 25, held between the lugs 23 by a set-screw passing through the lugs. Mounted to turn loosely upon said spindle 24 is a roller 27, and the upper end of said roller is recessed at 28 to form a seat for a washer 29, which surrounds the spindle 24. The upper end of the spindle 24 is bifurcated, and seated between the bifurcated ends of this spindle is a brace 30. A pin 31 passes through the bifurcated ends of the spindle and an aperture in the end of the brace 30. Said brace is curved backward and downward, and near its end it is slotted at 32. A set-screw 33 passes through the slot 32

and enters an aperture in the boss 19. A set-screw 34, passing through the side of the seat 13, bears against the guide 15 and holds it in any position relatively to the seat 13.

5 The operation of my invention is as follows: By means of the clamp my attachment may be secured to a trimming-machine and may be turned in any direction to occupy a position under the cutter-head. The roller 27 may
10 be adjusted to any desired inclination to suit the work to be performed, and the set-screw 33 may be tightened up to hold the brace 30 in adjusted position. If it is desired to hold the slide rigidly in adjusted position, the set-
15 screw 34 may be tightened up against the slide; but for some purposes it is found desirable to permit the slide to move back and forth against the stress of the spring 22, this movement being limited by the stops 21' when
20 the set-screw 34 is not tightened up. A shoe is held up to the cutter by placing the heel portion of the upper against the roller 27 and moved in the arc of a circle and vertically to trim the heel to the desired shape.

25 It will be obvious from the foregoing that I dispense with a jack for the boot or shoe and give to the operator a considerable range in the matter of trimming heels of different heights and contours, and by this arrange-
30 ment much time is saved and a greater scope as to shape and extent of heel is given, the work always being under control by the operator.

Having thus fully described my invention,
35 what I claim is—

1. In a heel-trimming machine, a roller guide or rest mounted to revolve on a spindle pivoted to a slide, and a brace for adjusting

the inclination of the roller to give the desired angular cut to the heel, substantially as 40 described.

2. In a heel-trimming machine, a clamp adapted to be secured to the frame of a machine, a bar on the clamp, a guideway adjust- 45 ably secured to the bar, a slide mounted to move in the guideway, a roller guide or rest carried by the slide, and a brace for adjusting the inclination of the roller, substantially as described.

3. An attachment for heel-trimming ma- 50 chines, comprising a clamp, a double guideway mounted on the clamp, a slide adapted to be adjusted in the guideway, a spindle pivoted to the slide, a roller journaled on the spindle, a slotted brace secured to the spin- 55 dle for adjusting the inclination of the roller, and a spring for moving the slide, substantially as described.

4. An attachment for heel-trimming machines, consisting of a clamp, a double guide- 60 way adjustably secured to said clamp, a slide mounted to move in said guideway, a spring for moving the slide in one direction, stops on the guideway, a spindle pivoted to the guideway to limit the movement of the slide, 65 a roller journaled on the spindle, and a brace for adjusting the inclination of the roller, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing wit- 70 nesses.

ERNEST EDWARD CANEDY.

Witnesses:

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RANSFORD OTIS CANEDY.