

J.E. Plummer.

Pegging Mach.

N^o 88,735.

Patented Apr. 6, 1869.

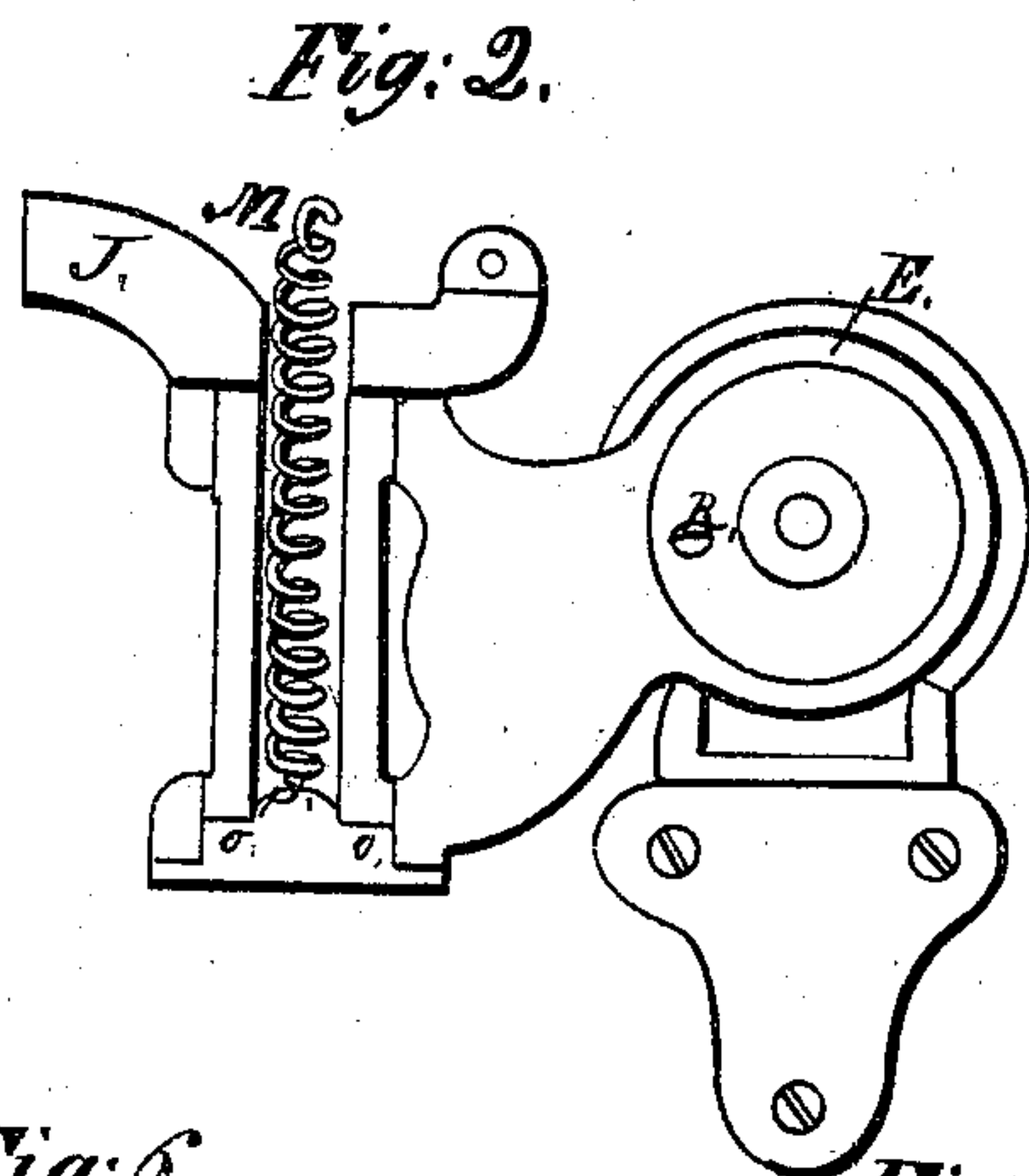
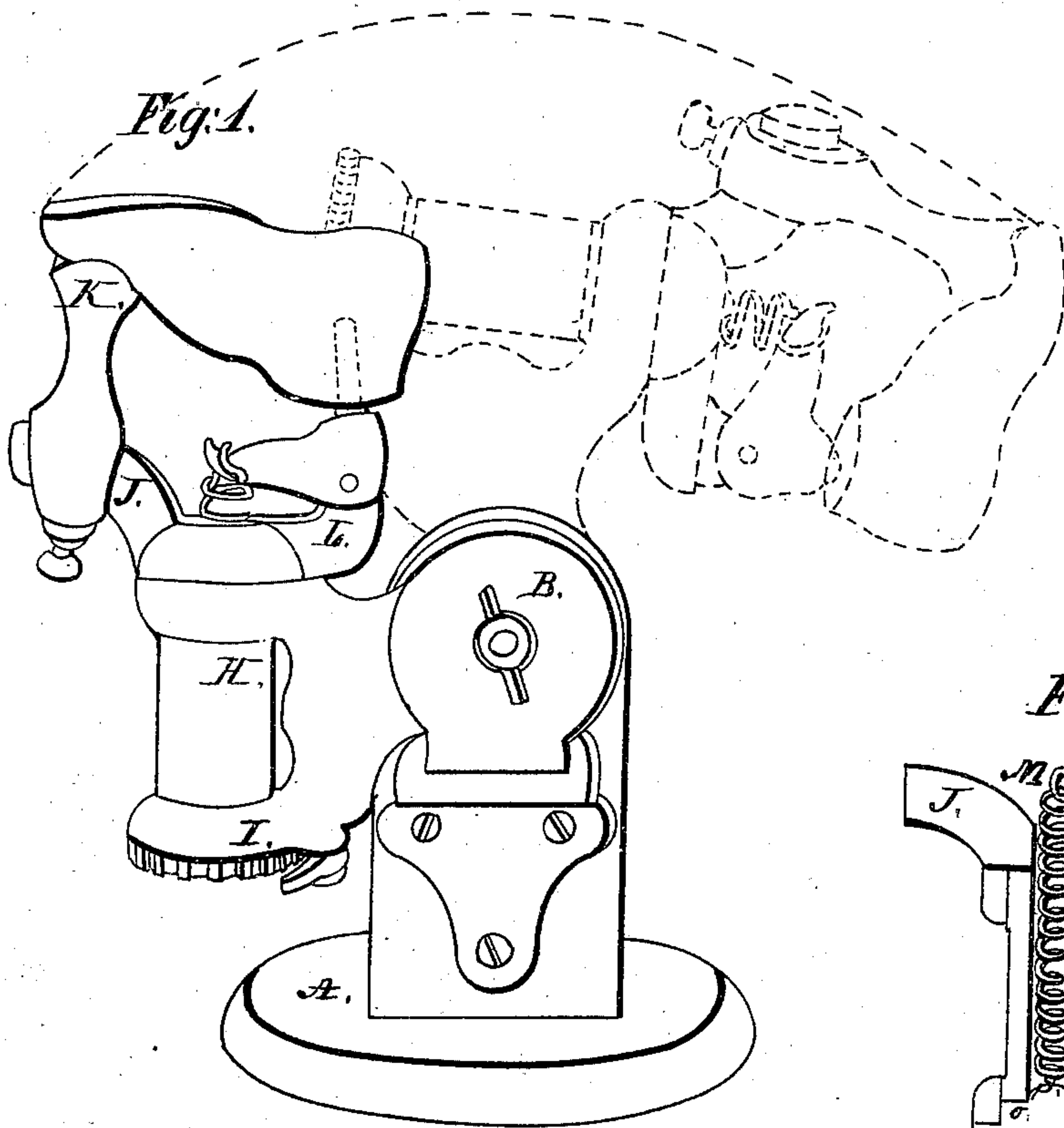


Fig. 5.

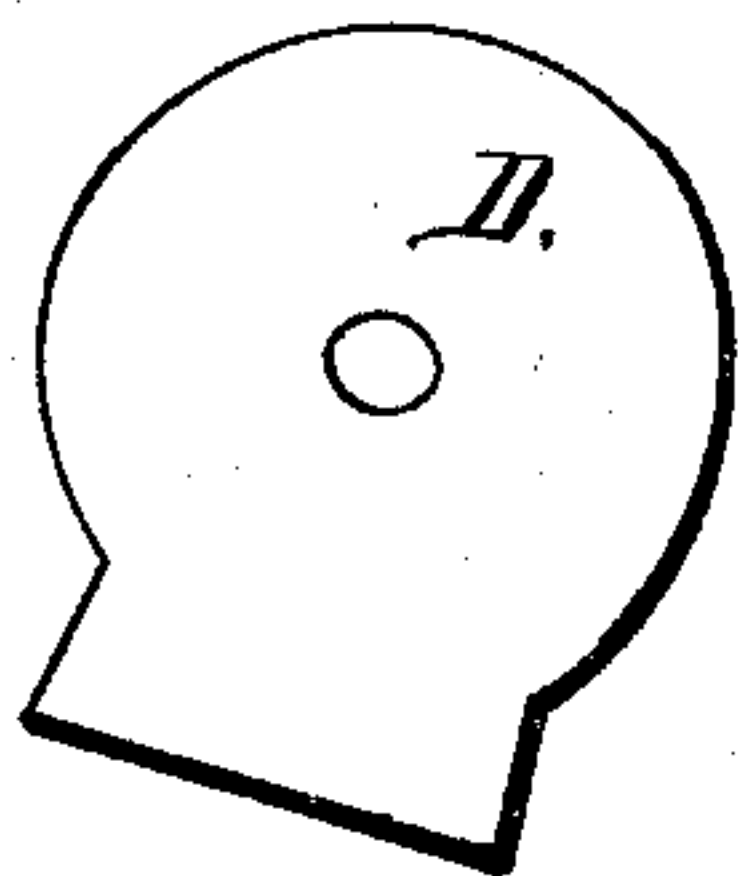


Fig. 6.

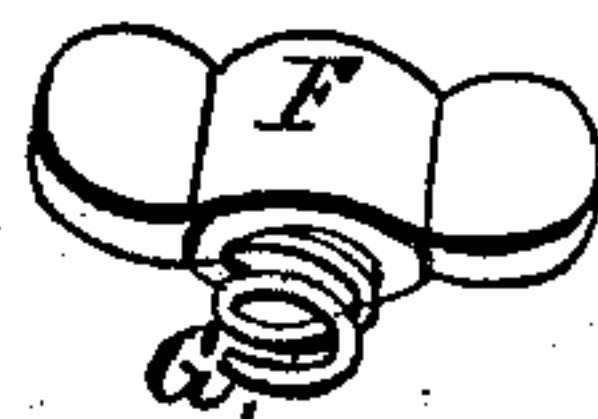


Fig. 4.

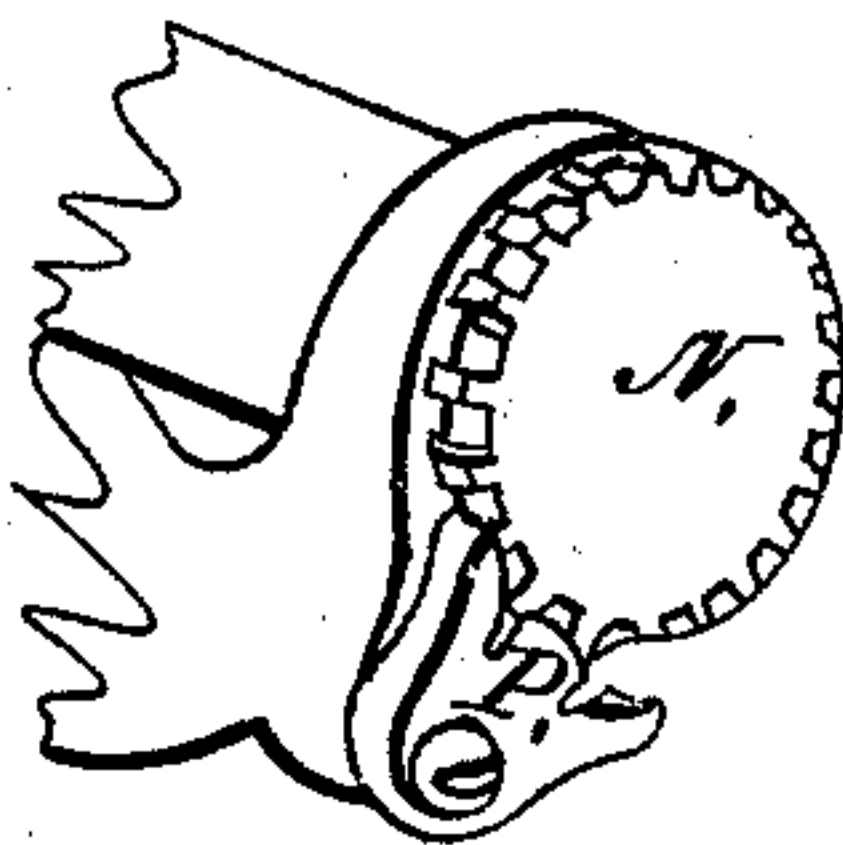
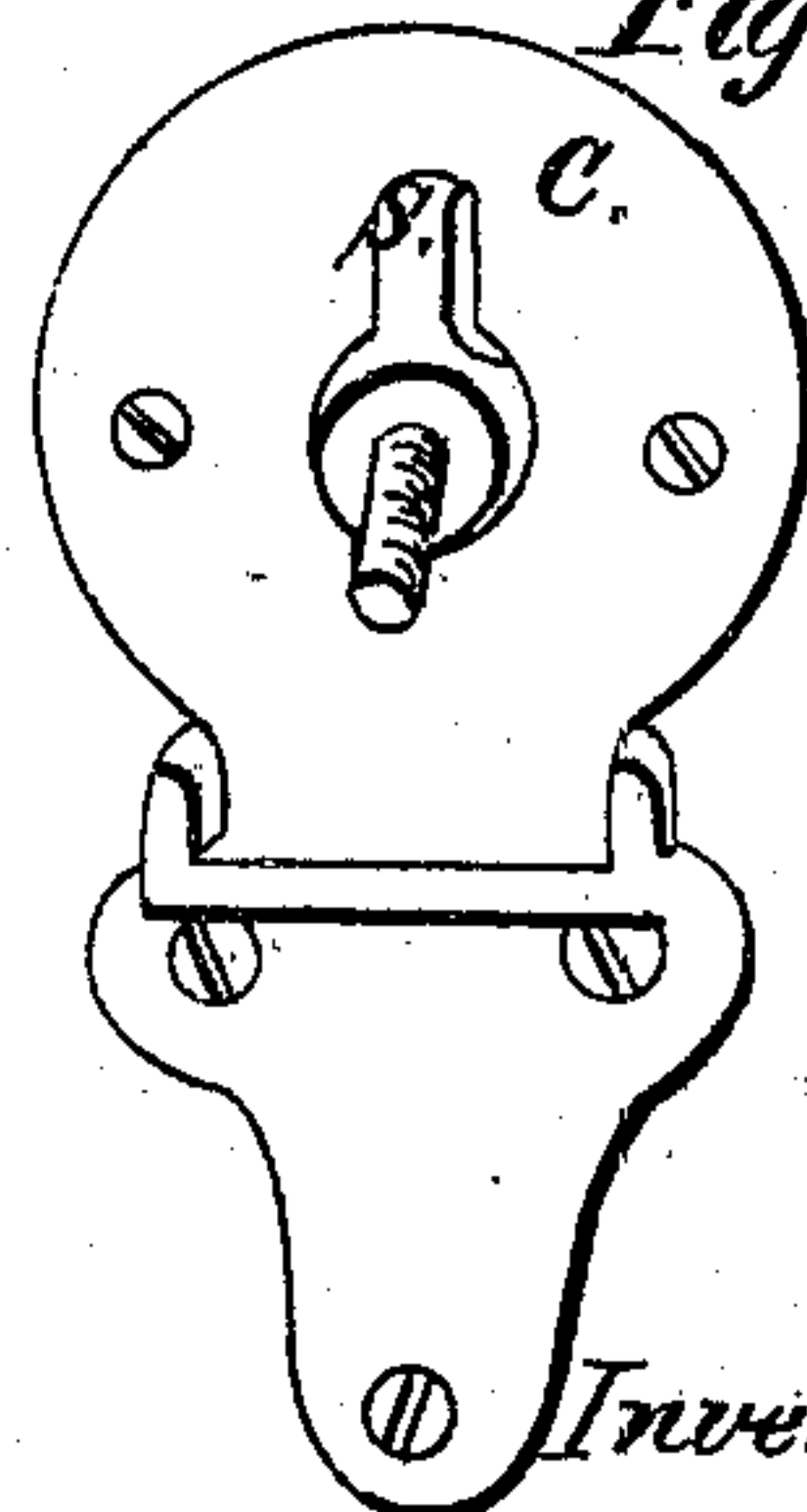


Fig. 3.



Witnesses.

Sam^l H. Bush
William Cunningham,

Inventor,
John E. Plummer,

JOHN E. PLUMMER, OF BINGHAMTON, NEW YORK.

Letters Patent No. 88,735, dated April 6, 1869.

IMPROVED SHOE-JACK FOR FINISHING SHOES.

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, JOHN E. PLUMMER, of Binghamton, in the county of Broome, and State of New York, have invented a new and useful Improvement on Shoe-Jacks, for Finishing Shoes; and I do hereby declare that the following is a full and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view.

Figure 2, a transverse vertical section of the revolving cylinder, supporting-arm, and vise, or clamp.

Figure 3 represents the stationary jaw of the vise.

Figure 4 shows the ratchet and double pawl, for holding the work in position for finishing the heel.

Figure 5 is the movable jaw of the vise.

Figure 6, the thumb-nut, with the spiral pressure-spring projecting from its chamber.

Similar letters of reference indicate corresponding parts in each figure.

The nature of my invention consists in the construction of a jack, for holding and finishing shoes, whereby the work may be accomplished with greater facility and precision, and with less liability to derangement, than others now in ordinary use.

I accomplish this by means of a combination of the ratchet and double pawl, vise and clamp, arranged for changing the work from right to left, thumb-nut spring, for holding the movable working-arm in position, when the screw-nut is loosened, curved arm, for holding the toe-piece, or pad, whereby it may be adjusted to any-sized last, and the vertical spiral spring, for holding the last in position.

I mount my shoe-jack upon a pedestal, A, of cast-iron, or other suitable material, which may be attached to the bench, or left free to be moved from one position to another.

To the base of this pedestal, I attach an upright support, of wood or metal, and to the top of this support, I attach a vise, B, or clamp, with rounded jaws.

On the lower part of the stationary jaw C, I make a square recess, for the corresponding part of the movable jaw D to work in, for the purpose of preventing it from moving round, while changing the position of the last-frame.

I then fit the rounded end of the arm E, to the jaws of the vise, the centre-screw of which forms the axis for the movement of the last-frame, which is held in any required position by means of the thumb-nut F.

For the purpose of keeping the jaw-plate D in contact with the side of the rounded end of the arm E, when the thumb-nut is loosened, I make a chamber in the nut, and insert a spiral spring, G, which presses the jaws together, sufficiently for most of its movements, without the use of the screw.

The last-frame consists of a revolving cylinder, H, supported by and working in projections I I from the arm E, for the purpose of turning the shoe horizontally.

I also make two projecting arms from the top of the cylinder, which support the last.

The arm J is made in the form of a curve, to correspond with the curve of the last, from the instep to the toe, for the purpose of adjusting the toe-piece K to any-sized last, without changing its horizontal position.

The other arm L is jointed with the lever, which connects with the spiral spring M, the lower end of which spring is attached to the ratchet N in the lower end of the cylinder, thereby reversing the operation of the spring, from others in use, making it more effective, and less liable to derangement.

The ratchet is fitted to the lower end of the cylinder, and held in position by the tension of the spiral spring, and prevented from turning in the cylinder, by the wings O O, fitted into corresponding slots.

For the purpose of holding the work in position for shaving and finishing the heel, I make the ratchet and double pawl P P as represented by fig. 4.

The stop R, as shown by fig. 3, when in contact with the projection S, from the hub, will hold the work in the position represented by the dotted figure, as shown in the drawing.

When I use my invention, I attach the last and shoe as represented by fig. 1, when it may be readily turned, vertically, on the axis of the vise B, or, horizontally, on the axis of the revolving cylinder H, and for the purpose of holding the work in the required position for shaving and finishing the heel, I use the ratchet and pawl N P.

If the operator should be left-handed, the operations of the jack may be reversed, by simply changing its position, by detaching from the vise B, changing its front, and reattaching.

If the size of the shoe to be finished should be larger than usual, the toe piece K may be moved further out on the arm J, and *vice versa*, and held in position by a thumb-screw.

Having thus described my invention,

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

The vise, or clamp B, ratchet N, double pawl P, in combination with the spiral spring G, in the thumb-nut F, curved arm J, toe-piece K, stop R, and projection from the hub S, all being constructed as herein described and represented, for the purpose set forth.

JOHN E. PLUMMER.

Witnesses:

SAM'L W. BUSH,
WILLIAM CUNNINGHAM.