(No Model.)

2 Sheets—Sheet 1.

A. A. ABBOTT.

CRIMPING MACHINE.

No. 398,567. Patented Feb. 26, 1889.

Fig. 1.

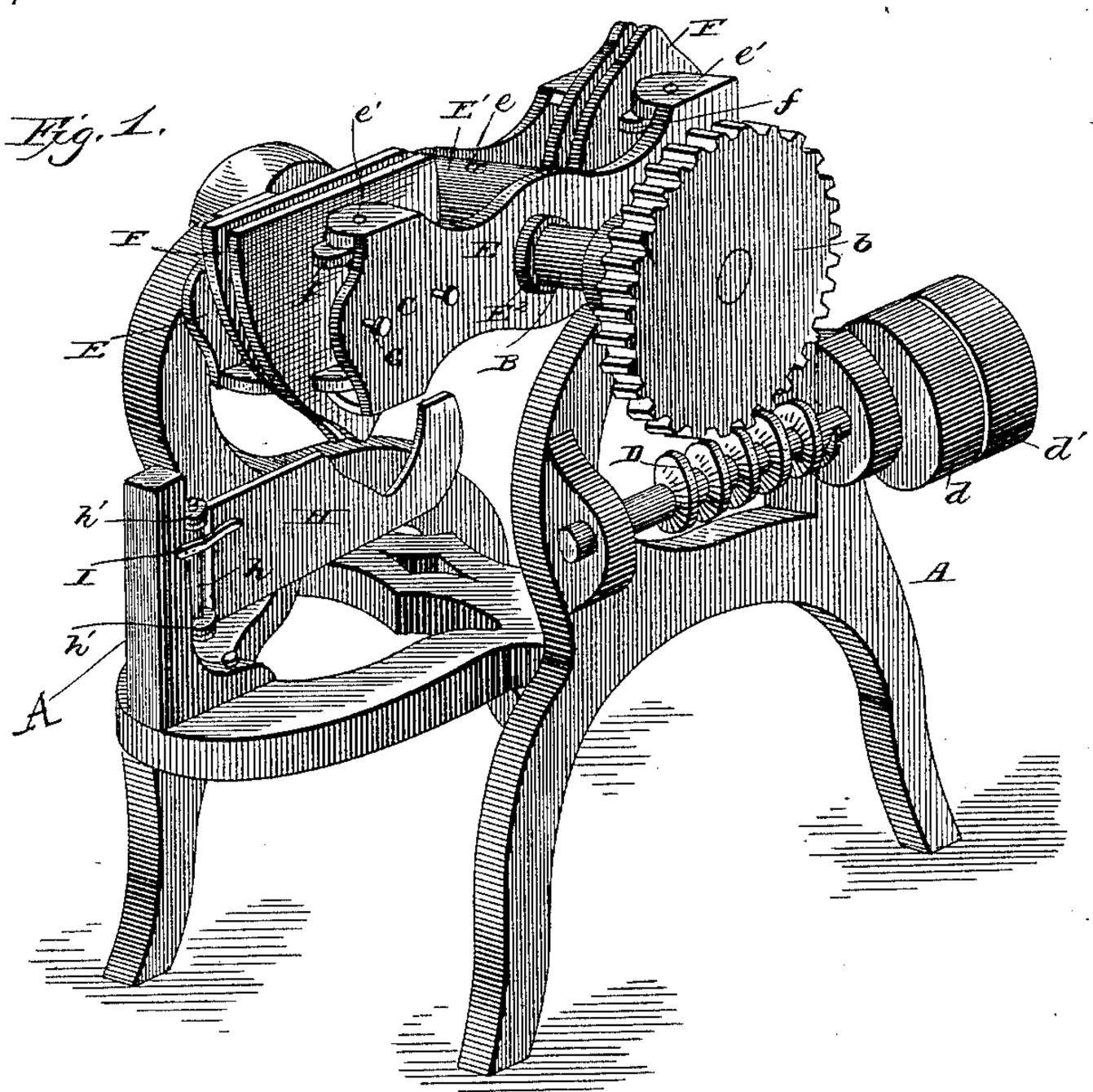


Fig. 4.

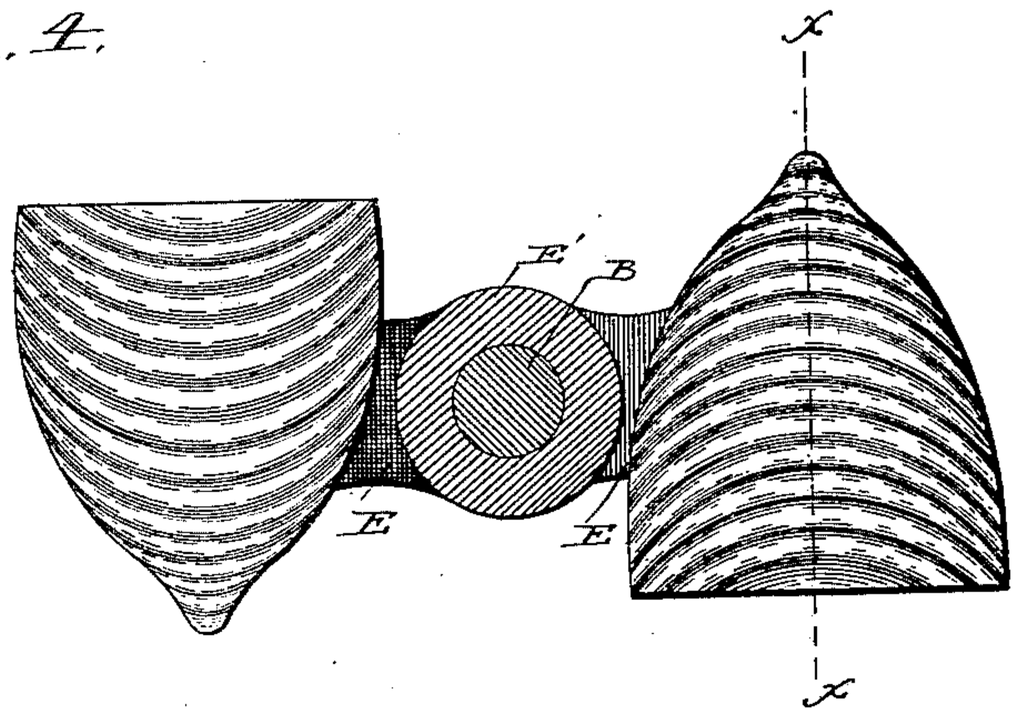
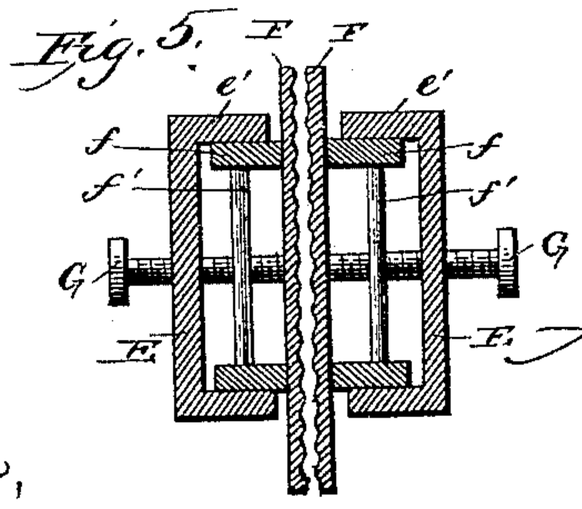


Fig. 5.



WITNESSES

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(No Model.) 2 Sheets—Sheet 2.

A. A. ABBOTT.

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No. 398,567. Patented Feb. 26, 1889.

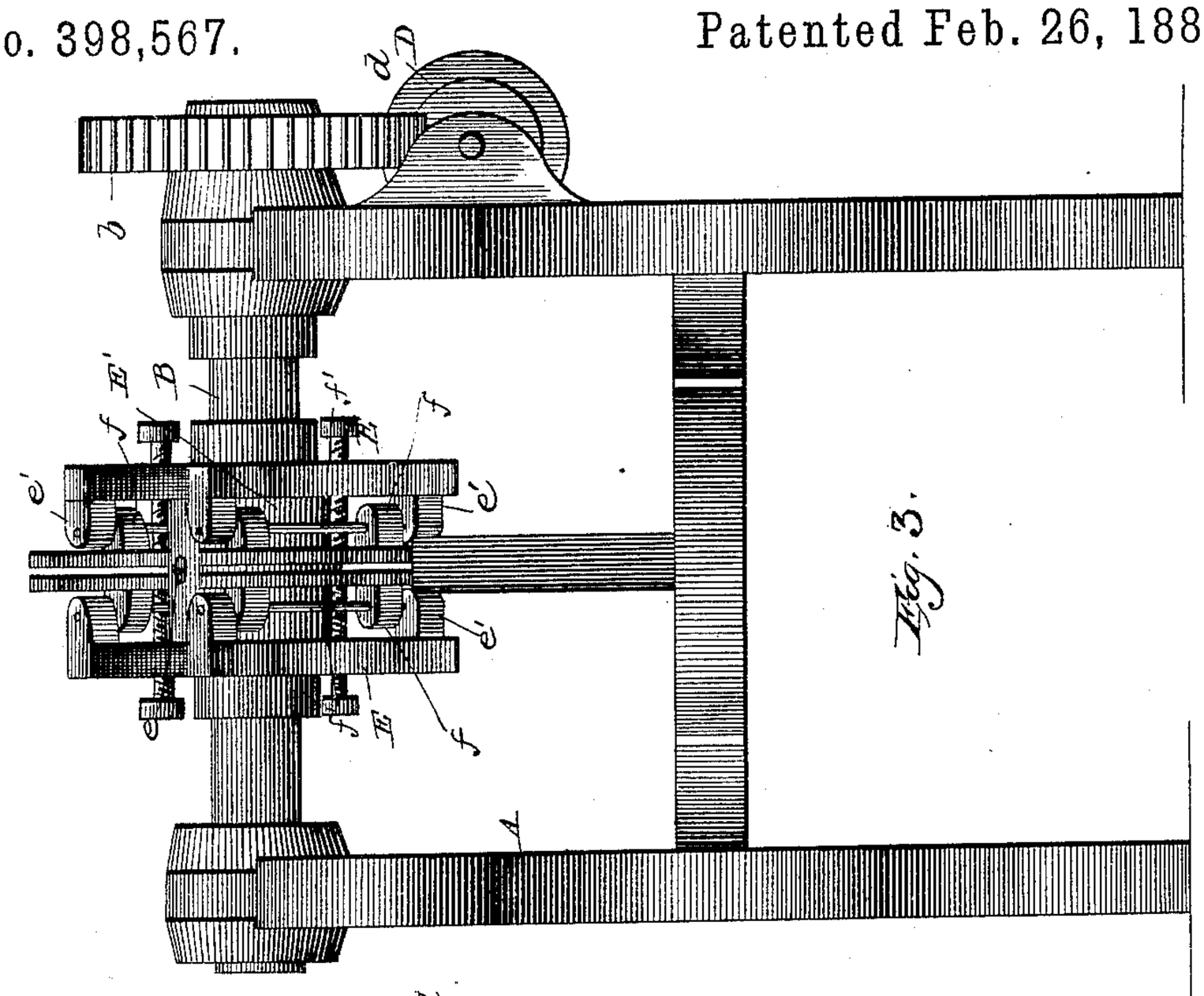

Fig. 3.

Fig. 2.

WITNESSES.

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UNITED STATES PATENT OFFICE.

ALPHEUS A. ABBOTT, OF AUBURN, MAINE, ASSIGNOR TO STEPHEN MOORE, OF NEWTON, AND FRANK T. FULLER, OF BOSTON, MASSACHUSETTS.

CRIMPING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 398,567, dated February 26, 1889.

Application filed September 6, 1888. Serial No. 284,691. (No model.)

To all whom it may concern:

Be it known that I, ALPHEUS A. ABBOTT, a citizen of the United States, residing at Auburn, in the county of Androscoggin and State of Maine, have invented certain new and useful Improvements in Machines for Crimping Boots and Shoes, of which the following is a specification.

This invention relates to machines for crimping the vamps of boots and shoes of that class designed to be operated by mechanical power; and its object is to provide a simple and improved machine of this class in which the crimped vamps can be readily removed without cessation of the motion of the machine, and one in which the jaws are easily and quickly adjusted to adapt them to different thickness of leather, whereby the substitution of other jaws is entirely obviated.

A further object of the invention is to provide a machine of this character possessing advantages in point of inexpensiveness, durability, and general efficiency.

In the drawings, Figure 1 is a perspective view of a crimping-machine embodying my invention. Fig. 2 is a top or a plan view. Fig. 3 is an end elevation. Fig. 4 is a longitudinal sectional view of the head. Fig. 5 is a vertical transverse sectional view.

Corresponding parts in the figures are denoted by the same letters of reference.

Referring to the drawings, A designates the frame of the machine, upon which is journaled the shaft B of the head C. Motion is preferably conveyed to the shaft through the medium of a gear-wheel, *b*, secured at one end thereof, said gear-wheel meshing with a worm-shaft, D, journaled upon the frame at right angles to the shaft B, and provided at one end with a fixed and loose band-wheel, *d d'*, respectively.

The head C comprises two parallel arms, E E, provided centrally between the same with a cylindrical bearing portion, E', through which the shaft D passes at right angles to the arms, said head being secured to the shaft by a set-screw, *e*. Collars E^2 E^2 are preferably secured upon the shaft, one at each side of the head, to more securely retain the latter against lateral displacement.

At each end of the arms E are provided oppositely-disposed lugs *e' e'*, between which project similar lugs, *f f*, provided upon the outer faces of oppositely-disposed jaws F F, said lugs *e'* and *f* being pivotally secured together by pins *f'* passing through holes therein, thus forming a hinge-joint for each jaw. The jaws are adjustable by means of adjusting-screws G, provided through the arms E at each side the hinge-joints, and they are also serrated upon their opposing faces.

H designates the form, which is pivotally secured to an upright, A, of the frame by means of a pin, *h*, passing through perforations in lugs *h'* upon the standard and upright, said standard being so located that the oppositely-disposed jaws will pass one at each side the standard when the machine is in operation. The form is held in place by a curved spring, I, at each side, both of which are secured to the upright A' at one end, while the other end rests against the form. It will be obvious that by the above construction the form will adapt itself to the space between the pairs of jaws and permit the latter to readily pass the form.

I do not wish to be understood as limiting myself to the exact construction herein shown and described, as numerous modifications may be made without departing from the spirit and scope of my invention. For instance, I may construct the head with four arms instead of two and provide a pair of jaws at each end, if desired.

The operation and advantages of my invention will be readily understood by those skilled in the art to which it appertains. The vamp is placed upon the form, and as the head rotates a pair of jaws pass over the form, and by reason of the serrations upon the opposing faces, one at each side, the leather is drawn closely down upon the form and thus crimped. When the jaws have passed the form, the vamp is removed from the form and another one substituted to be crimped by the next pair of jaws without stopping the machine.

I claim as my invention—

1. In a machine for crimping boots and shoes, the combination, with the frame provided with an upright, and a spring-held form pivoted thereto, of a rotatable head carrying

jaws adapted to pass over said form, substantially as and for the purpose set forth.

2. In a machine for crimping boots and shoes, the combination, with the frame provided with an upright, of a form pivotally secured to the latter, springs secured to the upright and bearing against the form to retain it in place, and a rotatable head carrying jaws adapted to pass over said form, substantially as set forth.

3. In a crimping-machine, the herein-described head, comprising a rotatable shaft, parallel arms mounted thereon and projecting in a straight diametrical plane at each side thereof, oppositely-disposed jaws pivoted at the ends of the arms upon their inner faces, and set-screws provided through the arms at each side the pivot, for adjusting the jaws, substantially as set forth.

4. In a crimping-machine, the herein-described head, comprising a standard, a form hinged vertically thereto, and springs secured to the standard at each side and having their free ends bearing against the form, substantially as set forth.

5. The herein-described crimping-machine, comprising a frame, a standard projecting therefrom carrying a spring-held form, a shaft journaled in the frame and carrying parallel arms projecting at each side thereof, jaws pivoted at both ends of the arms upon their inner faces, and set-screws for adjusting the same, and gearing connected with one end of the shaft for imparting motion thereto, all arranged and adapted to operate substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

ALPHEUS A. ABBOTT.

Witnesses:

GEORGE W. GORDON,

NATHAN W. HARRIS.