

(No Model.)

F. A. SMITH, Jr.
BUTTON SETTING INSTRUMENT.

No. 284,913.

Patented Sept. 11, 1883.

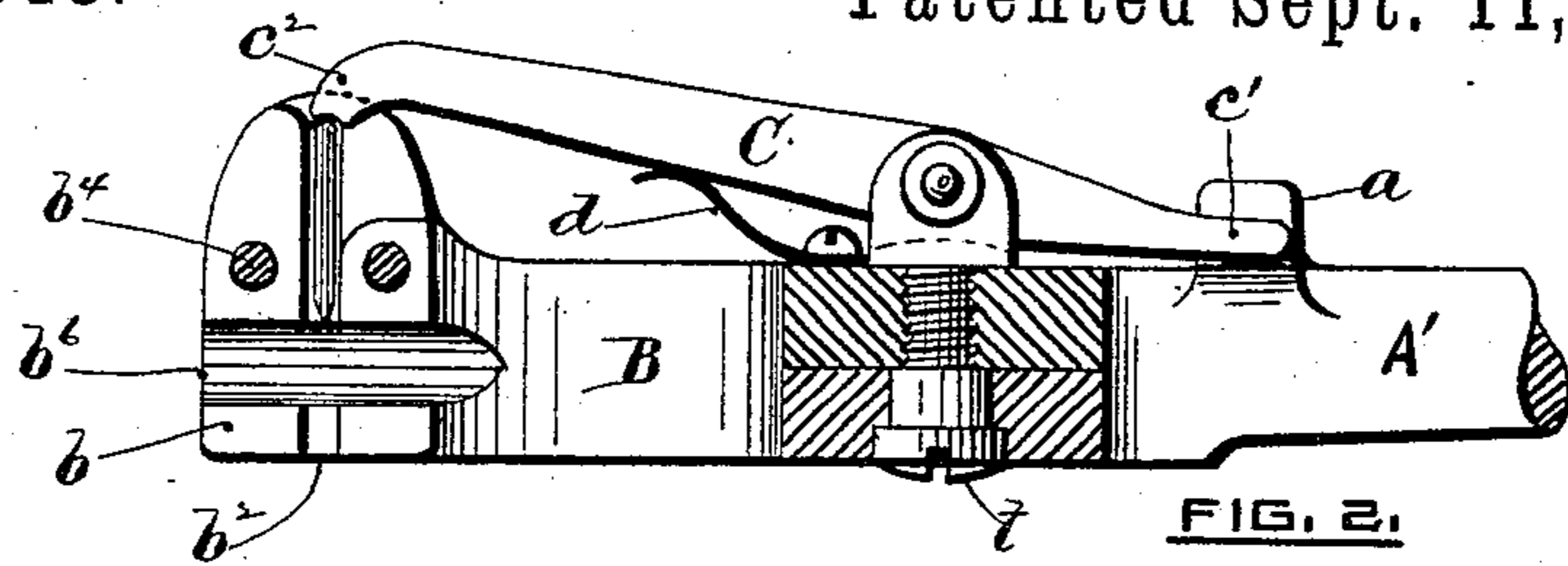


FIG. 2.

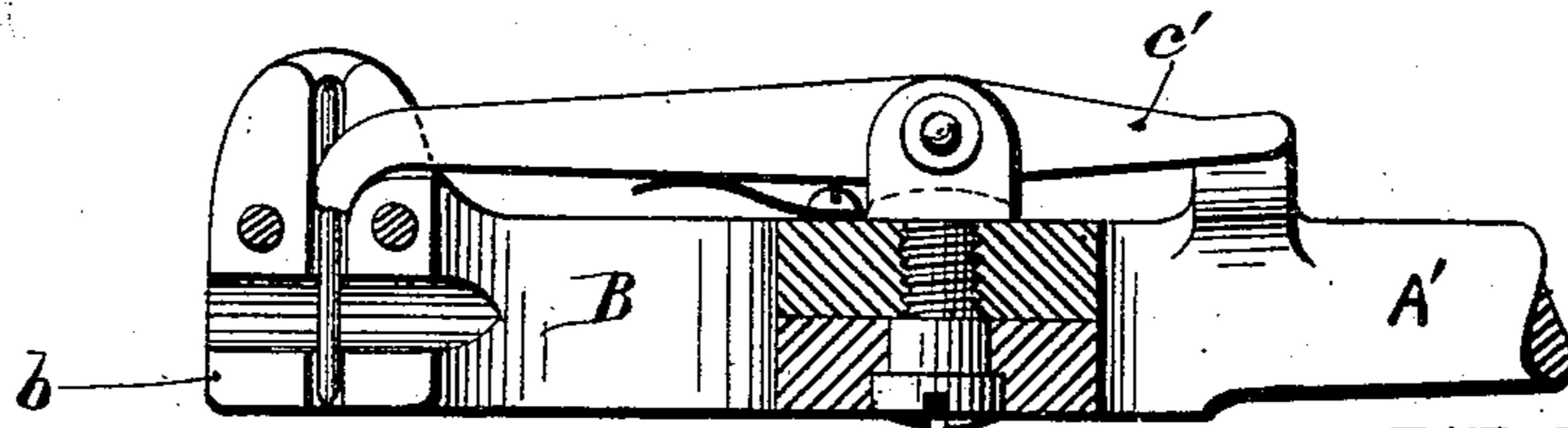


FIG. 3.

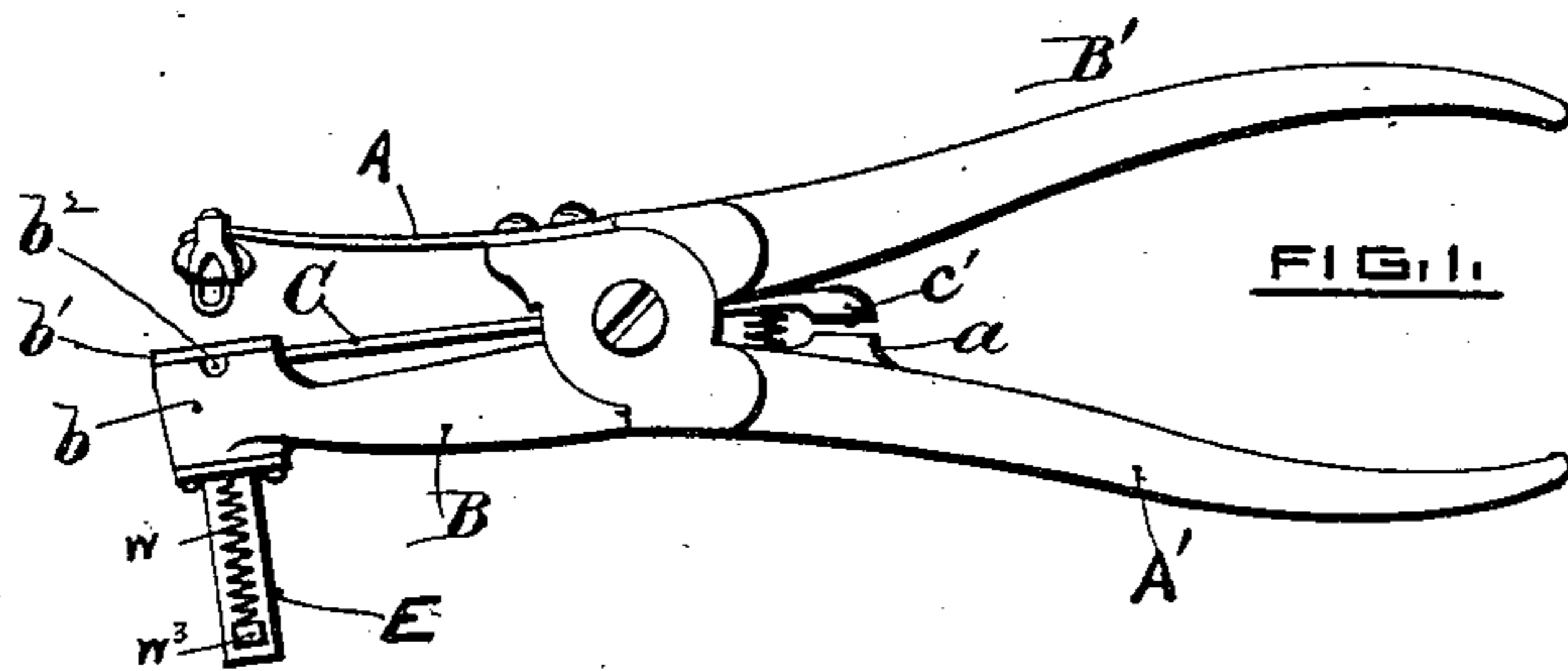


FIG. 4.

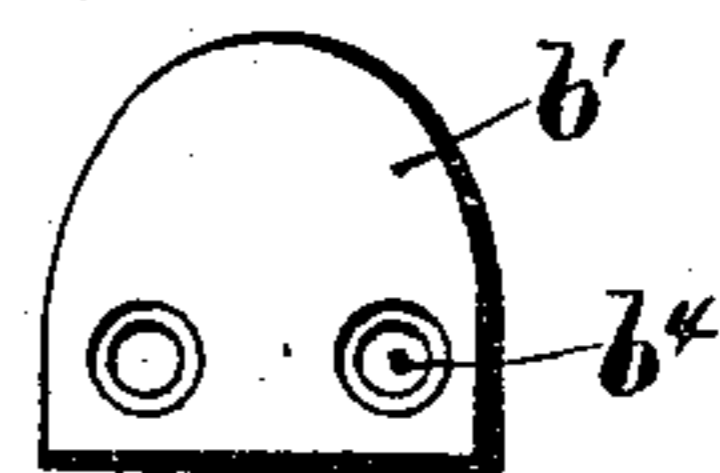


FIG. 5.

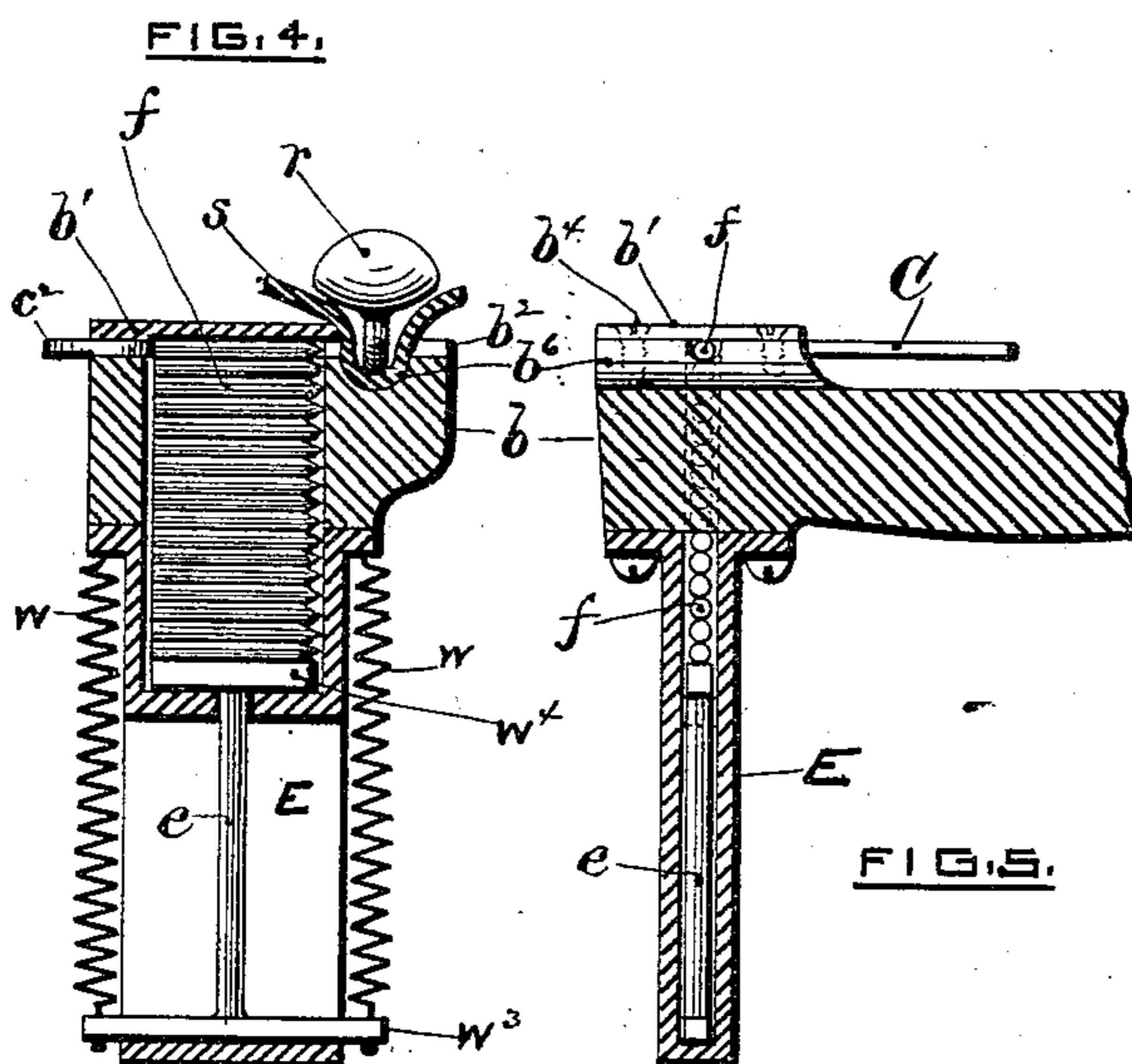


FIG. 6.

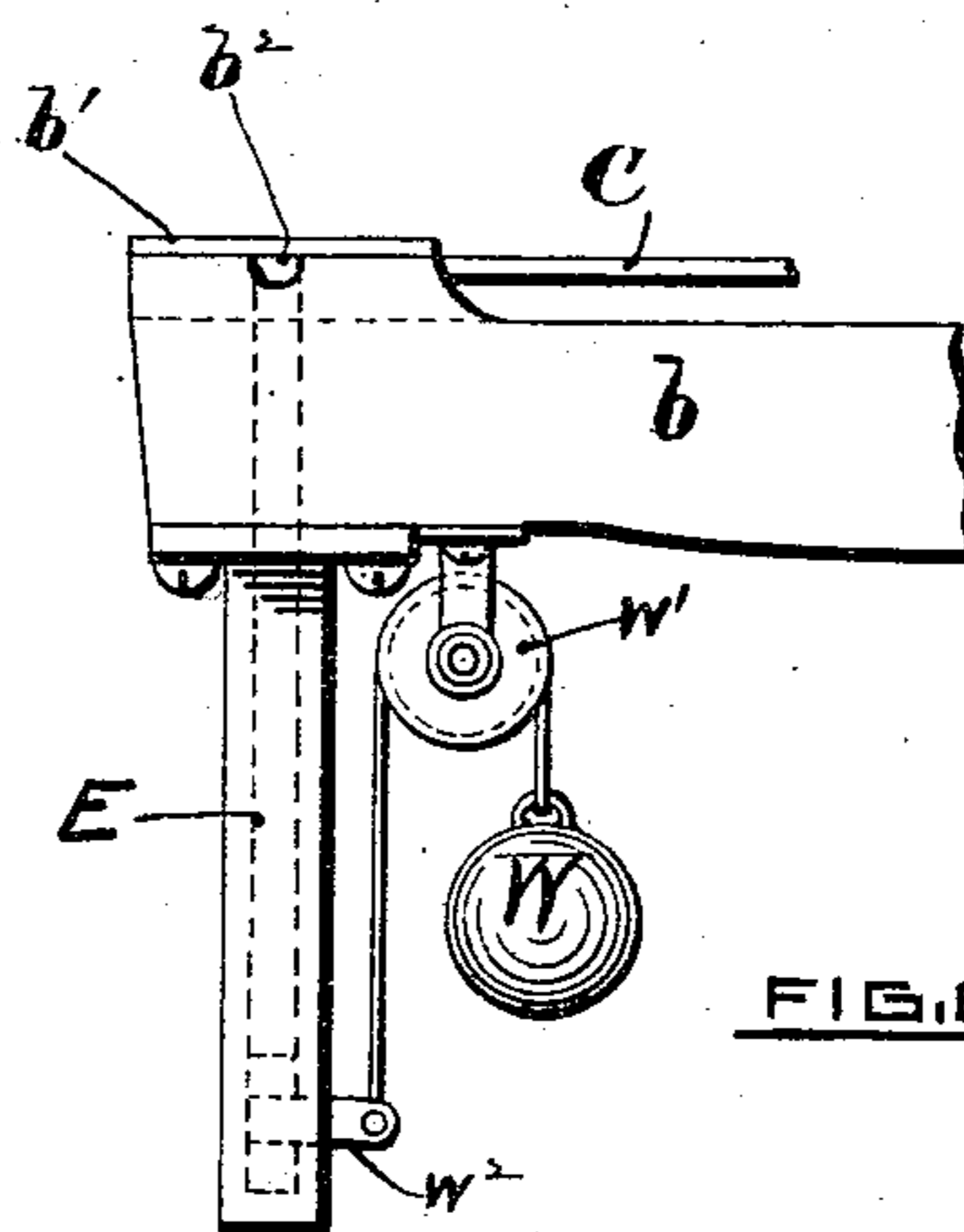


FIG. 7.

WITNESSES.

Charles Lammigan.
Willis H. Heath.

INVENTOR.

Franklin A. Smith, Jr.

By *Geo. H. Remington*
Att.

UNITED STATES PATENT OFFICE.

FRANKLIN A. SMITH, JR., OF PROVIDENCE, RHODE ISLAND.

BUTTON-SETTING INSTRUMENT.

SPECIFICATION forming part of Letters Patent No. 284,913, dated September 11, 1883.

Application filed June 28, 1883. (No model.)

To all whom it may concern:

Be it known that I, FRANKLIN A. SMITH, Jr., a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Button-Setting Instruments, &c.; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

This my present invention relates to certain improvements in button-setting instruments or machines, and of the class which employ metallic fasteners or connections for attaching buttons to fabrics, &c.

My invention consists in combining with such setting instruments or machines a magazine or reservoir which is adapted to retain a number of fasteners therein, and being also further adapted to automatically convey the fasteners, by means of a spring or weight, to the attaching device of the instrument, all as will be more fully hereinafter set forth.

In the accompanying drawings, Figure 1 represents, in reduced scale, a hand button-setting instrument provided with the fastener-reservoir. Fig. 2 represents a partial sectional plan view of the instrument having the channel-plate removed, and showing a fastener in position preparatory to being attached to a button and fabric. Fig. 3 represents a view similar to Fig. 2, but with the fastener in the position assumed when inserted through a button-eye, the latter, however, not being shown. Fig. 4 represents a vertical transverse central section through the lower jaw of an instrument, showing the reservoir and its adjacent parts and connections. Fig. 5 represents another view of the same. Fig. 6 represents a modification of the feeding or supply device as adapted to the lower jaw or member of a setting machine or instrument. Fig. 7 represents a plan view of the channel plate or cap.

Again referring to the drawings, E represents the reservoir which contains the fasteners *f*, said reservoir being secured to the end *b* of a jaw or member, B, of a setting-instrument, as fully shown.

*w*⁴ represents a follower, (Figs. 4, 5,) having

depending therefrom the stem *e*, which is also secured to an arm, *w*³, the ends of the latter being provided with spiral springs *w*, attached to said jaw *b*. The latter has an opening formed therein, which corresponds in form and position to the chamber of the fastener-reservoir E, as fully shown in Fig. 4.

*w*², Fig. 6, represents a follower provided with a weight, *w*, and necessary connections, consisting of a cord and pulley, *w*¹, the latter secured to the jaw or machine. I prefer this device for use in button-attaching power-machines.

For the purpose of describing the operation of my invention, I have selected a button-attaching instrument, for which I have recently made application for Letters Patent therefor in the United States Patent Office, although it is readily adapted to be used in connection with any setting-instrument. The fasteners *f*, which may be of any form adapted to be used herewith—although represented in the drawings as a piece of wire, pointed—are placed in the reservoir or magazine E, when the plate or cap *b*¹ is secured in place by means of screws *b*⁴, as shown, when now, by pressing together the handles A' B' of the instrument, the lever C is made to force the fastener *f* to the position shown in Fig. 3. This operation can be repeated as fast as the buttons can be placed in position.

The jaw *b* has a groove, *b*⁶, therein, which is adapted to receive the fabric *s* and button *r*, as shown in Fig. 4.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In an instrument for attaching buttons to fabrics, the combination, with the same, of the reservoir E, the latter adapted to receive the metallic fasteners *f*, and provided with the follower *w*⁴, connections *e* and *w*³, springs *w*, and channel-plate *b*¹, the whole constructed and arranged substantially as shown and set forth.

2. In an instrument for attaching buttons to fabrics, &c., the combination, with the same, of the reservoir E, provided with the follower *w*², pulley *w*¹, and weight *w*, substantially as shown and described.

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

Witnesses: FRANKLIN A. SMITH, JR.

GEO. W. PRENTICE,

GEO. A. MUMFORD.